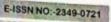
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SEISMIC PERFORMANCE OF RCC BUILDING WITH SHEAR WALLS AT VARIOUS LOCATIONS - A REVIEW

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Abstract:-

6.1

The occurrence of the earthquakes in the world and construction of high rise buildings demands for the construction of earthquake resistant buildings. Many of the tall buildings had collapsed in past earthquakes and the reasons attributed were poor design and construction practices. The high seismic areas earthquake resisting members. Now a day, shear wall in R.C. structure are most popular system to resist lateral load due to earthquake. Shear wall is a rigid vertical diaphragm capable of transferring lateral forces from exterior walls, floors, and roofs to the ground foundation in a direction parallel to their planes. Shear walls have more strength, stiffness and resist in-plane loads that are applied along its height. Buildings with influence on the overall performance of the building. For effective performance of building it is essential to provide position of shear wall in an ideal location. In the present opaper, studies of various researches were discussed on performance of RCC building with shear wall based on its location.

Keywords - Shear wall, Earthquake, RCC, Seismic Forces

INTRODUCTION

Earthquakes demonstrate vulnerability of various inadequate structures, every time they occur. The lessous taught from the aftermath of earthquakes and the research works being carried out in laboratories give better understanding about the performance of the structure and their components. Damage in reinforced concrete structures was mainly attributed to the inadequate detailing of reinforcement, lack of transverse steel and confinement of concrete in structural elements. Typical failures were brittle in nature, demonstrating inadequate capacity to dissipate and absorb inelastic energy. This necessitates a better understanding of the design and detailing of the reinforced concrete structures under various types of loading.

Shear wall is a rigid vertical diaphragm capable of transferring lateral forces from exterior walls, floors, and roofs to the ground foundation in a direction parallel to their planes. When shear walls are designed and constructed properly, they will have the strength and stiffness to resist the horizontal forces. Shear walls are especially important in high-rise buildings subject to lateral wind and seismic forces.

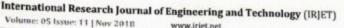
In the present study, various researches were discussed on performance of shear wall based on its location, orientation and materials used for construction.

REVIEW OF LITERATURE

Chandurkar and Pajgade, presented a study towards the solution for shear wall location in multistory building. Effectiveness of shear wall had been studied with the help of four different +models. Model one was bare frame



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STABILIZATOIN OF BLACK COTTON SOIL BY USING GEOTEXTILE MATERIAL IN ROAD CONSRUCTION

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Abstract - Geotextile material a newly emerging field in the civil engineering and other field i.e. road work, river canal work, drainage etc Considerable length of roads planned to be constructed in India under various programmes require construction over poor subgrade soils. The performance of a road largely depends on properties of the subgrade soil. One such subgrade soil often encountered is the black cotton (BC) soil. It is narganic clay of medium to high compressibility, high shrinkage and swelling property, very hard when dry, but lose its strength completely when in wet condition. As a result of wetting and drying process, vertical movement takes place in the soil mass leading to failure of pavement, in the form of settlement, heavy depression, cracking and unevenness.in order to improve the stabilization of BC soil the geotextile material has a scope as reinforcement. The overview of various synthesis geotextile fibre used in road construction.

Key Words: Key words:- black cotton soil, polypropylene fiber, polyethylene fiber, compaction test

1.INTRODUCTION

A developing country like India which has a large geographical area and population, demands vast infrastructure i.e. network of roads and buildings. Everywhere land is being utilized for various structures from ordinary house to sky scrapers, bridges to airports and from rural roads to expressways.

1.1 OBJECTIVES

1.To study the effect of the soil strength after the application of geotextile materials

2 To conduct the primary soil tests such as natural **Proctor Compaction Test**

3.To study the results drawn from above tests for the unreinforced and reinforced soil with different

percentages like 1%, 2%, 3%, 4% & 5%.

1

3 METHODOLOGY 3.1 MATERIALS

3.1.1 Black Cotton Soil

Black soils are formed by lava basaltic rocks. Hence they are very dark in color. They develop cracks during dry period and swell if got moisture, hence they are selftilling in nature, that's why they are fertile and can hold water for long time. This capacity is used for Cotton cultivation, hence they also called Regular Black Cotton Soil

3.1.2 High Density Polyethylene (HDPE)

Polyethylene (PE), also known as polyethene (IUPAC name) or polythene, is a major group of thermoplastic polymers, produced by the polymerization of ethylene. Depending on the polymerization process used, various types of polyethylene with differing properties can be obtained.



3.1.3Polypropylene

Polypropylene (PP), also known as polypropene, is a thermoplastic polymer used in a wide variety of applications. It is produced via chain-growth polymerization from the monomer propylene.

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UTILIZATION OF COFFEE INDUSTRY WASTE AND SPENT COFFEE GROUND FOR GENERATION OF POWER ALCOHOL

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Abstract:

As a consequence of this big market, the reuse of the main coffee industry residues is of significance importance from environmental and economic viewpoint. Research employs advance process to extract oil, which involves soaking the coffee ground in organic solvents that separates the oil. The separated oil later undergoes a series of chemical reaction to produce biodiesel. Incepensive process to extract oil from the coffee usate that was then converted into biodiesel, which could be used to fuel motor vehicles, will be use. Biodesel from coffee oil will be more economical through in the current scenario of coffee biodiesel would not be able to replace conventional fuel. Restarchers estimate that 10 kg of wastr coffee grounds are produced by a small coffee shap, which can produce nearly 12 liters of bio-fuels.

Research employs advance process to extract oil, which involves soaking the coffee ground in organic solvents that separates the oil. The separated oil later undergoes a series of chemical reaction to produce biodiesel. Inexpensive process to extract oil from the coffee waste that was then converted into biodiesel, which could be used to fael motor vehicles, will be use Biodiesel from coffee oil will be more economical; though in the current scenario of coffee biodiesel would not be able to replace conventional fuel. Researchers estimate that 10 kg of waste coffee grounds are produced by a small coffee shop, which can produce nearly 12 liters of biofuels.

Keywords: Spent coffee ground, biodiesel, Bio-ethanol, fermentation, zero waste

INTRODUCTION

Agro – industrial wastes are generated in large quantities throughout the world. Their non – utilization results in loss of valuable nutrients and environmental pollution. The wastewater generated from such industries discharge directly into surrounding water bodies, which affect human health and aquatic life. As per research, people health problems. Also, projected fuels demands indicate that, new, alternative and low priced feedstock are needed. This problem will be tackle by adopting this technology as it will help in reduction of disposal of waste in surrounding. Also solve the problem of the crisis of energy fuel. Alemayehu Haddis 2008 carried out health problems reported by the population living nearby industries.

Health Problems	% of Population Affected		
Spinning sensation (feeling drunk)	89		
Eve irritation (burning inside)	32		
Skin irritation	85		
Stomach problem	42		
Breathing problem	75		

Table 1: Percentage of Population Affected

Presently economy of the world is manly dependent on fossil energy source like oil, coal, natural gas, etc., which are being used for generation of fuel, electricity and other goods. Large consumption of fossil faels has resulted in high level of pollution. Global energy consumption has increased gradually with the expansion of human

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Seismic Control of Skewed Highway Bridge Using Seismic Control System

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Abstract- Highway bridges play a vital link role in surface transportation network, and their failures not only cause disruption of service but also danger people life. Seismic base isolation is an important technique that is used for reduce the seismic vulnerability by decreasing the seismic demand instead of increasing the seismic capacity. Present work deals with study of response of bridge using seismic control systems. For present study, a twospan prestressed concrete box girder highway bridge is considered and analyzed for seismic forces using SAP2000 software. The seismic response and behavior of Box Girder Bridge is studied by linear time history analysis using Newmark's beta method. For the analysis four different ground motion data selected and scaled for target spectra as per zone IV. The highway bridge is isolated with Lead Rubber Bearing (LRB). The response of bridge system under earthquakes has been compared with the corresponding bridge with and without the isolation system. It is observed that LRB is highly effective for controlling not only the seismic response of the bridge but also include the structural response on the cost of slight increase in the displacement of the deck.

Key Words— skewed Highway Bridge; lead rubber bearing; time history analysis

INTRODUCTION

Bridges are widely present in today's built environment, carrying highways through cities and Countries and serving as the transportation lifeline of modern civilization. It provokes many benefits for the people and especially, promotes interregional trades and reduces traffic crowding and Dr. N. P. Kataria Professor Civil Engineering Department Prof. Ram Meghe Institute of Technology & Research Badnera, Amravati, India nkataria 143@gmail.com

emergency movement. Past year have seen number of calamitous failures of Highway Bridge due to strong earthquake ground motions such as Northridge earthquake 1994, Kobe earthquake 1995 and chi-chi earthquake 1999 [Panchal and Jangid, 2008]. Due to seismic damage in the bridge tends to stop the transportation system and it harms economy ruinously. Seismic isolation appeared as one of the important techniques to protect the structures like buildings, bridges etc., from the destructive effects of earthquakes. Basically, the main purpose of base isolation system is to decouple the structure from the seismic ground motion which results in reducing the structural damages. Seismic isolation techniques minimized the seismic responses on the highway bridge by increasing the fundamental period of the bridge and increased energy dissipating capability [Kunde and Jangid, 2006].

In the past numerous research and studies were carried out for investigating the effectiveness of seismic isolation devices for seismic resistant design of bridges. Panchal and Jangid (2008) conducted a numerical studied of bridge isolated by the variable curvature friction pendulum system (VCFPS) and found that under near fault ground motion, the VCFPS is quite effective in controlling the seismic response of bridge within desirable range. Chavan and Mrunal (2015) investigated the effect of seismic isolation on the seismic response of bridge components. In their study, first existing bridge with Elastomeric bridge bearing is modeled



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ADVANCES IN AIR POLLUTION, ITS MONITORING & REMEDIAL MEASURES - A REVIEW

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Abstract -

Air quality have been long-standing concerns in the India and elsewhere, primarily due to rapid economic growth, industrialization and urbanization with associated increase in energy demand. Lack of implementation of environmental regulation is contributing to the bad air quality of most of the Indian cities. The World Health Organization reports that every year several million people die prematurely due to air pollution. Particulate matter (PM), Sulphur Dioxide (SO₂), Nitrogen Dioxide (NO₂), Carbon Monoxide (CO) and Ozone (O₂) are the major element of polluted air. The presented review is an effort to discuss various aspects of advances in air pollution and control technologies emphasizing on the history and present scenario.

Keywords - Air Quality, Air Quality Index, Urban air pollution, Particulate Matter, Ozone,

L INTRODUCTION

Air pollution means the presence in the outdoor atmosphere of one or more contaminants, such as dust, fumes, gas, mist, odour, smoke, or vapors, in quantities, with characteristics, and of duration such as to be injurious to human, plant, or animal life or to property, or which unreasonably interfere with the comfortable enjoyment of life and property. (Engineers Joint Council-USA). Air is one of the five vital basic natural ingredients of life system. The immediate environment of human-being comprises of air on which depends all forms of life. The major anthropogenic sources of air pollutants are industrial emissions, domestic fuel burning, emissions from power plants and transportation activities etc. The advent of technological and scientific innovations in various fields and diverse activities of human race for its sophistication have put extra load on the atmosphere by way of releasing air pollutants like suspended particulate matter (SPM), respirable suspended particulate matter (RSPM), sulphur dioxide (SO2), oxides of nitrogen (NOx), carbon monoxide (CO), unburned hydrocarbon (HC), hydrogen fluoride (HF) and other organic as well as inorganic pollutants including trace metals responsible for causing health consequences. Air Pollution indeed is now a serious worldwide public health problem. The short term health impacts of air pollution have been studied extensively since the London fog in the mid 20th Century and subsequent series of dreaded incidents in industrialized countries. The compatibility between ecology and economy is one of the most burning issues of the present times. Developmental activities e.g. industrial expansion, mining exploration, transportation and constructional works etc. cause degradation and drastic changes in every component of environment namely; hydrosphere, lithosphere, atmosphere and

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FEASIBILITY STUDIES ON DEFLUORIDATION OF WATER USING NATURAL ADSORBENTS

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Abstract - Fluorides are the major pollutants present in the effluents from various industries and ground water sources. These are highly toxic to living beings and have a hazardous effect on their health. Thus the removal of fluoride using bio sorbents is a major step towards the protection of environment. Adsorption is the most effective and widely used method and is applicable for the removal of fluoride even at low concentrations. This paper presents the results of investigations carried out for removal of Fluoride from water by using natural adsorbents i.e. Amla bark powder, Neem bark powder, Ground granulated blast furnace slag, Waste lime, Sugarcane baggase. The fluoride removal efficiency of adsorbents was investigated by batch wise adsorption experiment. The effect of various important parameters on the % removal was studied to find the optimum condition for the maximum removal of fluorides. The parameters like contact time, adsorbent dose, height of column and pH were investigated. The optimum pH, height of column, adsorbent dose and contact time were found to be 5, 15ml, 20g/l and 50 min. respectively for which there was maximum fluoride removal. All the results were validated on the basis of statistical analysis. All the graphs were fitted to various trend lines. Out of which the equation of most fitted trend line was adopted for the validation and deviation were observed.

Keywords - Adsorption, biosorbents, statistical analysis, fluoride, GGBFS.

I. INTRODUCTION

Fluoride is an inorganic, monatomic anion of fluorine with the chemical formula F⁻ which is of halogen group. Fluoride is the simplest anion of fluorine. Its salts and minerals are important chemical reagents and industrial chemicals, mainly used in the production of hydrogen fluoride for fluorocarbons. In terms of charge and size, the fluoride ion resembles the hydroxide ion. Fluoride ions occur on earth in several minerals, particularly fluorite, but are only present in trace quantities in water. Fluoride contributes a distinctive bitter taste. It contributes no colour to fluoride salts.

Fluoride can act as a base. It can combine with a proton (H*):

 $F^{-} + H^{+} \rightarrow HF$

This neutralization reaction forms hydrogen fluoride (HF), the conjugate acid of fluoride.

In aqueous solution, fluoride has a pK_b value of 10.8. It is therefore a weak base, and tends to remain as the fluoride ion rather than generating a substantial amount of hydrogen fluoride. That is, the following equilibrium favours the left-hand side in water:

F"+H2O HF+HO"

However, upon prolonged contact with moisture, soluble fluoride salts will decompose to their respective hydroxides or oxides, as the hydrogen fluoride escapes. Fluoride is distinct in this regard among the halides. The identity of the solvent can have a dramatic effect on the equilibrium shifting it to the right-hand side, greatly increasing the rate of decomposition.

1.1 Occurrence

Fluoride is found in all natural waters at some concentration. Seawater typically contains about 1mg/l while rivers and lakes generally exhibit concentrations of less than 0.5 mg /l. In ground waters, however, low or high concentrations of Fluoride can occur, depending on the nature of the rocks and the occurrence of fluoride-bearing minerals. High fluoride Concentrations may therefore be expected in ground waters from calcium-poor aquifers and in areas where fluoride bearing minerals are common.

1.2 Effect of fluoride

1.2.1. Dental fluorosis- If fluoride present in this range of 0.7 to 1.5 mg F/l in drinking water may cause dental fluorosis, in dental fluorosis loss of lustre and shine of the dental enamel. The discoloration starts from white yellow, brown to black enamel matrix is laid down on incremental lines before and after birth. Fluorosis is seen as mild moderate and severs depending on the amount of fluoride ingested during the stages of formation of the teeth.



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Economic Design of Alternative to Conventional Bricks in RC Structure

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Abstract-Although building techniques and materials have evolved over thousands of years, construction is still a long, complex, and expensive process. Construction industry boom can be seen in almost all the developing countries. With the increase in material costs in the construction industry, there is a need to find more cost saving alternatives so as to maintain the cost of constructing houses at prices affordable to people. There is need to develop an alternative system of building component which would impart more benefits and are multifunctional with optimum use of labor and material. Conventional/ Red bricks are one of the most pre-eminent construction material used for construction. The carbon dioxide emissions in the brick manufacturing process has heen certified as a relevant factor to global warming. Therefore, it becomes necessary to focus more on pursuing environmental solutions for greener environment. To fulfill this objective, new construction materials can be used for construction. Two such material i.e., Fly Ash brick and AAC blocks can be used as an alternative material for construction. This project presents brief analysis and Design of building for G+10 by using Conventional brick, Fly Ash brick and AAC block with gravity load and Live load. Cost analysis is made by using Conventional brick, Fly Ash brick and AAC block and overall modeling and analysis is done by using STAAD-Pro software.

Keywords: STAAD-Pro, RC Structure, Fly Ash brick, AAC Block

I. INTRODUCTION

A building can be defined as an enclosed structure intended for human occupancy. However, a building includes the structure itself and nonstructural components (e.g., cladding, roofing, interior walls and ceilings, HVAC systems, electrical systems) permanently attached to and supported by the structure. The walls are a very important part of any structure since they are the ones which distinguishes the structure from the environment. Conventional/ Red bricks are one of the most pre-eminent construction material used for construction. It is heavy in weight and also carbon dioxide emissions in the brick manufacturing process has been certified as a relevant factor to global warming. Therefore, it becomes necessary to focus more on pursuing environmental solutions for greener environment and light in weight. To fulfill this objective, new construction materials can be used for construction. Two such material i.e., Fly Ash brick and AAC blocks can be used as an alternative material for construction. This project presents brief analysis and Design of building for G+10 by using Conventional brick, Fly Ash brick and AAC block with gravity load and Live load. Cost analysis is made by using Conventional brick, Fly Ash brick and AAC block and overall modeling and analysis is done by using STAAD-Pro software. The properties of different types of bricks are shown below, which we have used in our project.

A. Types of Bricks

1) Red Clay Bricks/ Conventional Brick

Red clay bricks are generally made by consolidating a blend of locally accessible mud and sand with the end goal that the ratio of sand is least 30% and maximum 50%. After the blend is set into molds they are kept in the sun for around 3 weeks for drying or else are prepared in the kiln at 1800°F for seven days. It has a size of 225mm X 75mm X 100/150mm with a variety size of 5 mm (+/-)4. According to IS codes it has a compressive quality of 3.5 N/mm2 and dry thickness of 1800kg/m3.It can retain 17-20% of water of its aggregate volume A single cum of red clay bricks costs roughly around Rs. 2440. These bricks have low thermal insulation when contrasted with AAC and CLC blocks and has resistance to fire for around 2 hours5. These are effectively accessible in local stretch and are incredible for development of low rise structures, nonetheless one sq. ft. of cover area with clay brick walling will devour 25.5 kg of top soil (approx), which actually harms the environment and since it has high heat conductivity (0.81 Kw-M/C). Hence, there are no noteworthy cost savings. These bricks require thick mortar surface as there are varieties in the measurements. Cylindrical sewer vents or sewage loads require small size of blocks with the goal that the curvature can be framed consequently. Red clay bricks are valuable, they likewise prove to be useful for both load bearing and non-load bearing structure.

2) AAC Block

AAC mostly known as Autoclave Aerated Concrete or Autoclaved Cellular Concrete is a agile, precast, foam solid building material fabricated during mid-1920s that concurrently provides framework, fire-mold intransigence and insulation. Blocks, wall-panels, floor and roof boards, cladding or façade panels and lintels are all produce of AAC bricks. The substance was perfected by Dr. Johan Axel Eriksson in the Royal Institute of Technology and went into manufacturing in the Sweden in 1929. The raw materials in order to attain an AAC brick are quartz-sand, fly-ash, airentraining agents while lime, and cement and water are used as a constraint agent. The size of the bricks is around 400-600mm X 200mm X 150-300mm with a variation of 1.5 mm (+/-).As per IS codes, it maintains a compressive strength of 3-4 N/mm2 and dry density of up to 550-650 kg/m3 which encompasses one third of the weight of clay brick which makes it easily portable. It absorbs 10-12% of water of its total volume and hence reflects a low thermal conductivity of 0.24 Kw-M/C and an 8" inch wall of AAC can withstand a fire for up to 4 hours. For such bricks there is no top-soil consumption, so there is low carbon-dioxide emission. Chemical mortars are utilized for adjoining the brick which in-turn reduces the consumption of cement and also evades the process of curing. These bricks possess good dimensional accuracy so there is less requirement of thickness, in internal and external plaster. They commit to government taxes in the form of central, excise and VAT.A single cum of these bricks cost Rs. 4200 and being factory produce, they have high-end



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SEISMIC ANALYSIS OF MULTISTORY BUILDING WITH FLOATING COLUMN: A REVIEW

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Abstract - Modern multi-storey buildings are constructed with irregularities such as soft storey, vertical or plan irregularity, floating column and heavy loads. These type of structures have become a very common construction practice in urban India. It is observed that most of the RC structures with such irregularities constructed are highly undesirable in seismically active areas from the results of past earthquake studies. These effects occurred due to various reasons, such as am-uniform distribution of mass, stiffness and strength. This study explains the seismic analysis of a multi-storey building with floating column constructed in seismically active areas observing its reactions to the external lateral forces exerted on the building in various seismic zones using the software ETABS, STADD Pro and Sap2000. For analysis and study purpose there are few models will be developed in this study such that a multi-storey building that is G+12, G+14, G+16 buildings are considered and the models developed as multistorey building with floating column where these floating column are present at different positions and at different height of the building analysing it at different zones as zone 5 to zone 2 as per codal provisions. Thus highlighting the alternative measures involving in improvising the non-uniform distribution in the irregular building such as multi-storied building with floating column, and recommended the safer design of such building in seismically active areas considering the results observed from storey drifts, story displacements, when compared to Response Spectrum method. Response pectrum Analysis will be adopted which shows the best results.

Key Words: Floating columns, ETABS analysis, Response Spectrum

1. INTRODUCTION

India is a developing country, where urbanisation is at the faster rate in the country including adopting the methods and type of constructing buildings which is under vast development in the past few decades. As a part of urbanisation multi-storey buildings with architectural complexities are constructed. These complexities are nothing but soft storey, floating column, heavy load, the reduction in stiffness, etc. Now a day's most of the urban multi-storey buildings have open first storey as an unavoidable feature. Accommodation of parking or reception lobbies is the primary use of these open first story in the multi-storey buildings constructed. But Conventional Civil Engineering structures are designed on the basis of strength and stiffness criteria. Usually the ground storey is kept free without any constructions, except the columns which transfer the building weight to the ground. This report adopt the multi-storey building with a architectural complexity i.e. the complexity of a multi-storey building with Floating column and the behaviour of the building in higher seismic zones is observed and considered some recommendations.



Hanging or Floating Columns

1.1 Floating Column

A column is supposed to be a vertical member starting from foundation level and transferring the load to the ground. The term floating column is also a vertical element which at its lower level rests on a beam which is a horizontal member. Buildings with columns that hang or float on beams at an intermediate storey and do not go all the way to the foundation, have discontinuities in the load transfer path. The beams in turn transfer the load to other columns below it. The floating column is a vertical member which rest on a beam and doesn't have a foundation. The floating column act as a point load on the beam and this beam transfers the load to the columns below it. But such column cannot be implemented easily to construct practically since the true columns below the termination level are not constructed with care and hence finally cause to failure.

1.2 Earthquake Resistant Design

Generally these buildings with floating columns are usually designed for gravity loads and are safe under gravity loads but are not designed for earthquake loads. So these buildings

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Economic Design of Alternative to Conventional Bricks in RC Structure: A Review

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Abstract- Although building techniques and materials have evolved over thousands of years, construction is still a long, complex, and expensive process. Construction industry boom can be seen in almost all the developing countries. With the increase in material costs in the construction industry, there is a need to find more cost saving alternatives so as to maintain the cost of constructing houses at prices affordable to people. There is need to develop an alternative system of building component which would impart more benefits and are multifunctional with optimum use of labor and material. Conventional/ Red bricks are one of the most pre-eminent construction material used for construction. The carbon dioxide emissions in the brick manufacturing process has been certified as a relevant factor to global warming. Therefore, it becomes necessary to focus more on pursuing environmental solutions for greener environment. To fulfill this objective, new construction materials can be used for construction. Two such material i.e., Fly Ash brick and AAC blocks can be used as an alternative material for construction. This project presents brief analysis and Design of building for G+2, G+10 & G+18 by using Conventional brick, Fly Ash brick and AAC block with considering earthquake forces for zone III. Cost analysis is made by using Conventional brick. Fly Ash brick and AAC block and overall modeling and analysis is done by using STAAD-Pro software. Key words: Conventional Bricks, RC Structure

I. INTRODUCTION

Bricks are one of the most important building materials used for the construction. Brick is a building material which is used to make walls, pavements and other elements in construction. The continuation use of clay bricks in construction industry is leading to the extensive loss of fertile top soil which could be a devastating environmental hazard. It is causing a number of environmental and health problems. Within the reach of a brick kiln, environmental pollution from brick-making operations is injurious to human health, animals and plant life. Environmental pollution from brick manufacturing process contributes to the global warming and climatic change. The weather may cause degradation of the brick surface due to frost damage is leading to global warming which is now a global concern. Brick is a building material which is used to make walls, pavements and other elements in construction. The continuation use of clay bricks in construction industry is leading to the extensive loss of fertile top soil which could be a devastating environmental hazard. It is causing a number of environmental and health problems. Within the reach of a brick kiln, environmental pollution from brick-making operations is injurious to human health, animals and plant life. Environmental pollution from brick manufacturing process contributes to the global warming and climatic change. The weather may cause degradation of the brick surface due to frost damage is leading to global warming which is now a

global concern. To reduce environmental pollution and global warming problems, various types of blocks can be used as an alternative to the red bricks. AAC blocks may be one of the solutions as a replacement to clay bricks. AAC blocks are a relatively new phenomenon in Indian construction industry. In spite of drastic growth in manufacturing of AAC, the real fact is that market share of AAC is very small as compared to the red bricks. Autoclaved Aerated Concrete (AAC) blocks are made of fly ash, aluminum powder and water. The manufacturing process of AAC blocks does not cause any environmental problems. Autoclaved Aerated Concrete (AAC) blocks are smooth and almost eight times bigger than the red bricks and are lighter than the normal red clay bricks. The bricks are of typical size. They do not have much strength as compared to aerated concrete blocks. The larger size of AAC blocks leads to faster masonry works and reduces the cost of the project. AAC has an excellent property which makes it an excellent insulator i.e. the interior environment is easier to maintain. Autoclaved Aerated Concrete (AAC) blocks have light weight, high strength, good durability, heat preservation, sound insulation, fire proofing, impervious, good anchoring properties. Autoclaved Aerated Concrete (AAC) is a certified green building materials, which is porous, nontoxic, reusable, renewable and recyclable can be used for commercial, industrial and residential construction.

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A. Types of Bricks

1) Red Clay Bricks/ Conventional Brick

Red clay bricks are generally made by consolidating a blend of locally accessible mud and sand with the end goal that the ratio of sand is least 30% and maximum 50%. After the blend is set into molds they are kept in the sun for around 3 weeks for drying or else are prepared in the kiln at 1800°F for seven days. It has a size of 225mm X 75mm X 100/150mm with a variety size of 5 mm (+/-)4. According to IS codes it has a compressive quality of 3.5 N/mm2 and dry thickness of 1800kg/m3.It can retain 17-20% of water of its aggregate volume A single cum of red clay bricks costs roughly around Rs. 2440. These bricks have low thermal insulation when contrasted with AAC and CLC blocks and has resistance to fire for around 2 hours5. These are effectively accessible in local stretch and are incredible for development of low rise structures, nonetheless one sq. ft. of cover area with clay brick walling will devour 25.5 kg of top soil (approx), which actually harms the environment and since it has high heat conductivity (0.81 Kw-M/C). Hence, there are no noteworthy cost savings. These bricks require thick mortar surface as there are varieties in the measurements. Cylindrical sewer vents or sewage loads require small size of blocks with the goal that the curvature can be framed consequently. Red clay bricks are valuable, they likewise prove to be useful for both load bearing and non-load bearing structure.



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Minimization of Effect of Soft Storey during Earthquake by Providing Semi Soft Storey

Pratik S. Deshmukh¹, Rameshwar R. Ingalkar², Ms. Sayali A. Baitule³

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Abstract - Most of reinforced concrete (R.C.) structures are fail due to soft storey mechanism. The present work focused on an behaviour of soft storey and semi soft storey. We had seen that in previous earthquakes severe structural damage suffered by many multi-storey buildings exemplify the importance of avoiding sudden changes in later 4 stiffness and ductility. In this study 1 try to investigate performance of a building (G+4) with soft storey along with semi soft storey is analysed in order to reduce soft storey effect on seismic response of building. The linear response spectrum analysis was carried out and the results obtained from models were compared in terms of storey displacement, storey drift, storey shear, time period and best alternative for construction in earthquake-prone area has selected.

Key Words: Soft storey, Shear wall, Storey drift, Storey displacement, Storey shear, Time period, Time historey analysis, Response spectrum analysis, ETAB.

1. INTRODUCTION

A soft storey known as weak storey is defined as a storey in a building that has substantially less resistance or stiffness or inadequate ductility to resist stresses induced due to earthquake. Soft storey buildings are characterized by having a storey which is provided without brick wall or shear wall in between two columns and beams. Many multistorey buildings in India have open first storey. This is primarily being adopted to accommodate parking or reception lobbies in the first stories. For to take this advantage this feature is unavoidable. In soft storey building upper stories have brick unfilled wall panels. The Indian seismic code classifies lateral stiffness of soft storey is less than 70% of the storey above [IS: 1893, 2016]. Whereas during an earthquake the total seismic base shear as experienced by a building is dependent on its natural period, the seismic force distribution is dependent on the distribution of stiffness and mass along the height. Due to the presence of infill walls in the entire upper storey except for the ground storey makes the upper storey much stiffer than the open ground storey. Thus, the upper storey moves almost together as a single block and most of the horizontal displacement of the building occurs in the soft ground storey itself. In other words, this type of buildings sways back and forth like inverted pendulum during earthquake shaking, and hence the columns in the ground storey columns and beams are heavily stressed. Therefore, it is recuired that the ground storey columns must have sufficient strength and adequate ductility. Due to various needs. A soft storey is also

unavoidable and thus it becomes important to study the performance of a soft storey building.

Know a day we had seen that solution for soft storey peoples provide shear wall, but it is highly uneconomical so that shear walls are not preferred in regular everyone.

2. REVIEW OF LITERATURE

Misam. A and Mangulkar Madhuri N. (2012) discussed about severe structural damage suffered by several modern buildings during recent earthquakes illustrates the importance of avoiding sudden changes in lateral stiffness and strength. The lower level containing the concrete columns behaved as a soft storey in that the columns were unable to provide adequate shear resistance during the earthquake. Usually the most economical way to eliminate such failure in a building is by adding shear wall to soft stories. In this paper occurring of soft storey at the lower level of high-rise buildings subjected to earthquake has been studied. Also has been tried to investigate on adding of shear wall in various arrangements to the structure. Four different models were prepared in this paper & they are as follows:

Model 1: The structure without lateral load resistance system is called model-I.

Model 2: The model-I (Soft storey at bottom) is modified into this model with adding the shear wall.

Model 3: This model is also a shear wall-frame building. The shear wall is added at the corners bays of the building.

Model 4: This model is also a shear wall-frame building. The shear wall is added at the two center bay of building. In this model, the soft storey at the lowest floor has been added the shear wall in center bay too.

Mohamed Riyas N.K, Dr. Raneesh K.Y and Marshiyth K.P (2016) studied the seismic vulnerability of building with an Example of G+24 building with soft storey at intermediate floor using linear static analysis. Analysis and design were carried out on an RCC moment resisting framed tall building without Infill wall on different floors with the help of Software ETABS 2015 and concluded that deflection and displacement are always maximum at soft storey level. Models considered for the study are as follows:

Model 1: Soft storey at ground floor level

Model 2: Semi Soft storey at ground floor level

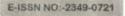
Model 3: Soft storey at 12th floor level

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A REVIEW PAPER ON PARTIAL REPLACEMENT OF PORTLAND CEMENT BY ALCCOFINE

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Abstract -

Concrete is most widely used material for construction. Major component of concrete is cement. There is large amount of carbon dioxide emissions into the atmosphere, a major contributor for green house effect and global warming during manufacturing process of cement. Thus it becomes necessary to discover a substitute material for cement in concrete. There are many other Supplementary Cementitious Materials (SCM's) have been used as a partial replacement to cement in the production of concrete. Also the necessity of High Performance Concrete is increasing day by day. The production of high strength and durable eco-friendly concrete leads to the use of a new generation ultrafine supplementary cementificus material. Alccofine is a new generation micro fine concrete material which can be use in concrete by partially replacing the cement. Properties of concrete can be improved by partial replacement of cement by alccofine. Also Alccofine is easy to use and it can be added directly with cement. This paper involves the review of published literature of various authors which focused on effect of partial replacement of cement with alccofine in concrete. It is concluded that partial replacement of cement with alccofine can improve the strength and durability characteristics of concrete. The cost of concrete mix prepared with alccofine is less than the concrete without Alccofine for high strength concrete.

Keywords-Concrete, Cement, Alccofine, Supplementary Cementitious Materials (SCM's), strength and durability characteristics.

INTRODUCTION

Concrete is the most frequently and widely used construction material. Concrete is a homogenous mixture of cement, sand, coarse- aggregate, water and admixtures. A major component of concrete is cement, which is one of the primary producers of carbon dioxide gas. Manufacturing of cement for concrete involves large amount of carbon dioxide emissions into the atmosphere, a major contributor for green house effect and global warming. Also necessity of high performance concrete is increasing because of the increasing demand of the construction materials in the construction industry. Thus it becomes necessary to discover a substitute material for cement in concrete. A lot of Supplementary Cementitions Materials (SCM's) like fly ash, slica finnes, slag powder etc. have been identified in the past and also have been effectively used as a partial replacement to cement in the production of concrete. The production of high strength and durable eco-friendly concrete leads to the use of a new generation ultrafine supplementary cementitious material Alccofine as a partial replacement of cement in concrete. This new ultrafine pozzolonic material has become popular in the construction industry and has brought a revolution in the field of civil engineering. A significant improvement in the properties of concrete at firsh and hardened stage has been observed by the partial replacement of cement with Alccofine in concrete. [15]

ALCCOFINE

Alccofine is a new generation, micro fine material of particle size much finer than other hydraulic materials like cement, fly ash etc. manufactured in India. It has unique characteristics to enhance 'performance of concrete' in fresh and hardened stages. It can be used as practical substitute for Silica Funne. This new ultrafine pozzolonic material has become popular in the construction industry and has brought a revolution in the field of civil engineering. A significant improvement in the properties of concrete at fresh and hardened stage has been observed by the partial replacement of cement with Alccofine in concrete.

Series of alcoofine:

Alccofine series 1200: It is a range of micro fine mineral additives for concrete. It improves the performance parameters of concrete in wet and hardened stage.

Alccofine series 1100: It is a range of cementitious micro fine injection grouts for soil stabilisation, tunnel grouting, permeation grouting.etc

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COST AND SCHEDULE OVERRUN IN CONSTRUCTION PROJECTS

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Abstract-

In construction industry time and cost performance is the fundamental criteria for success of any project Unfortunately construction industry facing poor performance leading to failure in achieving effective time and cost performance. Therefore to complete the project on time it is necessary to reduce the causes which are responsible for time & cost overrun. The aim of the study is to analyze the construction projects to determine construction cost and schedule overrun in various types and size of the projects. Number of samples were collected and analyzed to find various factors responsible for the cost and schedule overrun. This study will help the practitioners to implement the mitigation measure at planning stage in order to achieve successful construction project. The aim of the study is to establish significant causes of cost escalation, schedule overruns and propose mechanisms that could be used to systematically address the causal factors.

Keywords: Cost overrun, Schedule overrun, Construction Project, Analysis

INTRODUCTION

1.1 Construction Industry In India- Indian economies have been on a very positive development curve for years now, posting impressive growth rate percentages. The Indian construction industry is an integral part of country's economy and its growth and a conduit for a substantial part of India's development investment. It is poised for solid growth due to industrialization, urbanization and economic development together with people's expectations of improved living standards. The construction sector employs approximately 31 million people, accounts for some 6-8% of GDP and, after agriculture, is the largest employment sector in the country. In general, it has been growing at 9-11% year on year, primarily due to the strength of increased domestic and international manufacturing activities and industrial growth (Harris, 2011). The construction industry is primarily driven by government investments on core and urban infrastructure; industrial capital investment by corporate sector and development activities of real estate/housing sector. The industry plays a pivotal role in developing the country's infrastructure, a pre-requisite for high levels of economic growth. Major importance is placed by the government of India on bridging the infrastructure deficit. Massive investment is being done in the field. Construction sector accounts for nearly 45% of the total investment in infrastructure and is expected to be the prime beneficiary of the surge in infrastructure investment in the near to medium term. Development of adequate infrastructure to achieve/sustain high GDP growth is a priority for the Government of India. Despite slippages from targets, investments in infrastructure reported a compounded annual growth rate (CAGR) of 18% over the last three years, with the spending increasing to Rs. 4.0 lakh crore in FY 2009-10 from 2.4 lakh crore in 2006-07 (ICRA, 2011). Development of infrastructure is key to growth within the commercial sector and it has been estimated that India needs to spend US\$ trillions in the next few years to meet its infrastructure requirements. The government plans to source these funds from combinations of Public Private Partnerships (PPP), public investments and exclusive private investments while FDI is expected to provide liquidity to allow key rail, road, and power projects to continue to be built. India's infrastructure industry is currently experiencing unprecedented levels of growth, on the back of the expansion of the economy as a whole and continued infrastructure investment is expected to up the Tier II and Tier III. Cities driving demand for new, high quality commercial developments (Harris, 2011).With the economy booming, the demand for all segments of the real estate sector is going to continue to grow. The Indian Government's decision to allow 100% Foreign Direct Investment (FDI) in the real estate industry has stimulated construction activities throughout the country. The Indian real estate industry is

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A REVIEW PAPER ON TORSIONAL BEHAVIOR OF ASYMMETRICAL

BUILDINGS

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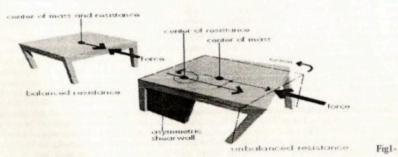
Abstract:

The structures having discontinuity in their mass, stiffness and geometry, such structure is termed as asymmetric' irregular structure. At the present scenario there are many buildings which are asymmetric in their plan as well as in elevation. These asymmetry leads to major damage during earthquake than regular buildings. Sometimes irregularities are not avoidable in construction of buildings. However the torsional behavior of asymmetric building during earthquake needs to be studied for appropriate design and better performance of building. Several studies of structural damage during past earthquake conclude that torsion is the most critical factor leading to major damage or complete collapse of a building. The object of the present work is to state a review on the past papers presented on torsional behavior of asymmetrical buildings. So the present work provides a good source of information to understand structural behavior of building with irregularities under strong ground motion.

Keywords: Earthquake, Asymmetrical Building, Torsion.

I. INTRODUCTION:

The earthquakes are the most unpredictable and devastating among all natural disasters, which causes the more damages to the buildings and living things. So it is very necessary to identify the behaviour of buildings, especially their torsional behaviour during an earthquake. Torsion response in a building is affected by coupling of translation vibration with rotational vibration.



Generation of torsional moment in asymmetric structures during seismic excitation.

The past investigation regarding to earthquake revels that irregular structures suffers from more damages than the regular one. An irregularity in dimensions affects the distribution of stiffness while a mass

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ANALYSIS AND DESIGN OF RC UNSYMMETRICAL MULTISTOREY BUILDING HAVING SOFT STOREY

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Abstract - Due to the tremendous destructions of buildings after earthquakes in past few decades, there is the need to evaluate and improve the seismic performance of multistoried reinforced concrete buildings. There are several numbers of factors affecting the behavior of building. Stiffness irregularity in vertical direction is one of them, as a result of which soft storey is formed. As per the latest seismic code IS 1893:2016, minimum 2% of plan density of shear walls should be available to resist earthquake force smoothly. In this paper, a parametric study is performed on unsymmetrical multi storey building with soft first storey, located in seismic zone III by considering different percentage of plan densities of shear walls at various locations. It is intended to describe the performance characteristics such as stiffness, displacement, drift etc. The study is carried out on a building with the help of different models considering various methods for improving the seismic performance of the building with soft first storey. The response spectrum analysis is carried out on all the 3D model using the software ETABS 2017 and the comparison of these models are presented. Also, the effect of torsion in the analysis of buildings is studied.

Key Words-soft storey; shear wall; response spectrum analysis; torsion

INTRODUCTION

Due to the increasing population since the past few decades, car parking space for residential apartments in populated cities is a major problem. So that the constructions of multistoried building with open first storey is a common practice in the world. Hence the trend has been to utilize the ground storey of the building itself for parking or reception lobbies in the first storey. These buildings have no infill masonry walls in the ground storey, but all the upper storeys have masonry infill walls are called "soft first storey or open ground storey building.

A. General Behavior of Soft Storey

The presence of infill walls in the upper storeys of the building makes them much stiffer than the open ground storey. Thus, all the upper storeys of the building move together as a single block, and most of the horizontal displacement of the building occurs in the open ground storey itself. In common, this type of buildings can be explained as a building on chopsticks. Thus, such type of buildings swing back-and-forth like inverted pendulums during earthquake shaking and the columns in the open ground storey are severely stressed. If the columns are weak i.e. do not have the required strength to resist these high stresses or if they do not have adequate ductility, they may be severely damaged which may even lead to collapse of the building. Therefore it is required that the ground storey columns have sufficient strength and adequate ductility. The vulnerability of this type of buildings is attributed to the sudden lowering of lateral stiffness and strength in ground storey, compared to upper storey with infill walls. A bare frame is much less stiffer than a fully infilled frame, it resists the applied lateral load through frame action and shows well-distributed plastic hinges at failure but when, frame is fully infilled, truss action is introduced. A fully infilled frame structure shows lesser inter storey drift, although it attracts higher base shear (due to increased stiffness).

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FEASIBILITY STUDIES ON DEFLUORIDATION OF WATER USING NATURAL ADSORBENTS

Shreyas S. Dahane¹, Shailesh S .Gupta¹, Sachin V. Dharpal²

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Abstract - Fluorides are the major pollutants present in the effluents from various industries and ground water sources. These are highly toxic to living beings and have a hazardons effect on their health. Thus the removal of fluoride using bio sorbents is a major step towards the protection of environment. Adsorption is the most effective and widely used method and is applicable for the removal of fluoride even at low concentrations. This paper presents the results of investigations carried out for removal of Fluoride from water by using natural adsorbents i.e. And a bark powder, Neem bark powder, Ground granulated blast furnace slag. Waste line, Sugarcane beggase. The fluoride removal efficiency of adsorbents was investigated by batch wise adsorption experiment. The effect of various important parameters on the % removal was studied to find the optimum condition for the maximum removal of fluorides. The parameters like contact time, adsorbent dose, height of column and pH were investigated. The optimum pH, height of column, adsorbent dose and contact time were found to be \$. 15ml, 20g/l and 50 min. respectively for which there wase maximum fluoride removal. All the results were validated on the basis of statistical analysis. All the graphs were fitted to various trend lines. Out of which the equation of most fitted trend line was adopted for the validation and deviation were observed.

Keywords - Adsorption, biosorbents, statistical analysis, fluoride, GGBFS.

1. INTRODUCTION

Fluoride is an inorganic, monatomic anion of fluorine with the chemical formula F^- which is of halogen group. Fluoride is the simplest anion of fluorine. Its salts and minerals are important chemical reagents and industrial chemicals, mainly used in the production of hydrogen fluoride for fluorocarbons. In terms of charge and size, the fluoride ion resembles the hydroxide ion. Fluoride ions occur on earth in several minerals, particularly fluorite, but are only present in trace quantities in water. Fluoride contributes a distinctive bitter taste. It contributes no colour to fluoride salts.

Fluoride can act as a base. It can combine with a proton (H*):

 $F' + H' \rightarrow HF$

This neutralization reaction forms hydrogen fluoride (HF), the conjugate acid of fluoride.

In aqueous solution, fluoride has a pK_b value of 10.8. It is therefore a weak base, and tends to remain as the fluoride ion rather than generating a substantial amount of hydrogen fluoride. That is, the following equilibrium favours the left-hand side in water:

F + H₂O HF + HO

However, upon prolonged contact with moisture, soluble fluoride salts will decompose to their respective hydroxides or oxides, as the hydrogen fluoride escapes. Fluoride is distinct in this regard among the halides. The identity of the solvent can have a dramatic effect on the equilibrium shifting it to the right-hand side, greatly increasing the rate of decomposition.

1.1 Occurrence

Fluoride is found in all natural waters at some concentration. Scawater typically contains about 1mg/l while rivers and lakes generally exhibit concentrations of less than 0.5 mg /L In ground waters, however, low or high concentrations of Fluoride can occur, depending on the nature of the rocks and the occurrence of fluoride-bearing minerals. High fluoride Concentrations may therefore be expected in ground waters from calcium-poor aquifers and in areas where fluoride bearing minerals are common.

1.2 Effect of fluoride

1.2.1. Dental fluorosis- If fluoride present in this range of 0.7 to 1.5 mg F/l in drinking water may cause dental fluorosis, in dental fluorosis loss of lustre and shine of the dental enamel. The discoloration starts from white yellow, brown to black enamel matrix is laid down on incremental lines before and after birth. Fluorosis is seen as mild moderate and severs depending on the amount of fluoride ingested during the stages of formation of the teeth.

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SSRG International Journal of Civil Engineering (SSRG-IJCE) - Volume 6 Issue 6-June 2019

Study of Retrofitting Technique with reference to Soil Structure Interaction: A Review

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Abstract

Most of the earthquake in the world shows that there is a need to study basic conditions of earthquake vibration. During earthquake the behaviour of any structure is influenced not only by the response of the superstructure, but also by the response of the soil underneath. Soil structure interaction is in disciplinary field which involves structural and geotechnical engineering. The conventional method of building frame analysis assumes that columns are resting on unvielding supports. In certainty, the supporting soil strata deforms unevenly under the action of loads, which causes redistribution of forces in the frame members and stresses in the supporting soil media. Past earthquake shows that most of the structural designer does not consider the soil structure interaction effect on structure during an earthquake and because of that we will not find out exact behaviour of earthquake in buildings. Present work is focused on soil structure interaction and study of different retrofitting techniques for finding out the optimized solution for any structure which require retrofitting.

Keywords: Soil structure interaction, retrofitting techniques.

L INTRODUCTION

Earthquake in India shows that not only non-engineered structure but also engineered structure are also heavily damaged during moderate earthquake. As waves from an earthquake reach a structure, they produce motions in the structure. These motions depend on the structure's vibration characteristics and the layout of structure. For the structure to react to the motion, it needs to overcome its own inertia force, which results in an interaction between the structure and the soil. The extent to which the structural response changes the characteristics of earthquake motions observed at the foundation level depends on the relative mass and stiffness properties of the soil and the structure. Thus the physical property of the foundation medium is an important factor in the earthquake response of structures supported on it. The process in which the response of the soil influences the motion of the structure and the motion of the structure influences

the response of the soil is termed as soil-structure interaction (SSI).

II. LITERATURE REVIEW

From exhausted survey done by many researches it was found that many researcher works on a one by one technique of retrofitting but no one judge the effect of different retrofitting techniques on a single structure by considering soil structure interaction. Following literature survey was done for understanding the effect of soil structure interaction on structure.

R. M. Jenifer Priyanka et al (2012) studied though the structures are supported on soil, most of the designers do not consider the soil structure interaction and its subsequent effect on structure during an earthquake. Different soil properties can affect seismic waves as they pass through a soil layer. When a structure is subjected to an earthquake excitation, it interacts the foundation and soil, and thus changes the motion of the ground. It means that the movement of the whole ground structure system is influenced by type of soil as well as by the type of structure. Tall buildings are supposed to be of engineered construction in sense that they might have been analyzed and designed to meet the provision of relevant codes of practice and building bye-laws. IS 1893: 2002 "Criteria for Earthquake Resistant Design of Structures" gives response spectrum for different types of soil such as hard, medium and soft. An attempt has been made in this paper to study the effect of Soil-structure interaction on multi storeyed buildings with various foundation systems. Also to study the response of buildings subjected to seismic forces with Rigid and Flexible foundations. Multi storeyed buildings with fixed and flexible support subjected to seismic forces were analyzed under different soil conditions like hard, medium and soft. The buildings were analyzed by Response spectrum method using software STAAD Pro. The response of building frames such as Lateral deflection, Storey drift, Base shear, axial force and Column moment values for all building frames were presented in this paper.

Maria I. Todorovska (2002)et althis paper presents a review of the full scale experimental studies of soil structure interaction. It briefly reviews that the early

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IN RNAL FOR MULTIDISCIPLINARY RESEARCH

VIBRATION EFFECTS ON STRUCTURE DUE TO EARTHQUAKE AND WIND: AN OVERVIEW

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ABSTRACT

Natural disasters like earthquake / flood / wind create a very huge devastation in terms of life, money and structural damages. We know that prevention is better than cure but no one can predict natural disaster as when it is coming and at what time on which place, we cannot prevent this type of disaster but definitely prepare for it. Structural engineers cannot construct disaster proof structure but it is possible to construct disaster resistance structure. For analyzing any structure for disaster, we consider either earthquake effect or wind intensity effect because we assume both disasters will not act simultaneously. In this review paper, I have surveyed and presented the effect of earthquake vibration and wind intensity on structure. Earthquake is the natural disaster, which is erratic and shocking of all other natural disasters. Development of proper techniques for mitigation of stresses/deflections developed due to vibrations has become the need of time. The high-rise buildings, long-span bridges, towers and others modern structures are rising up frequently now a days, those structures are very vulnerable to random forces like earthquakes, winds and waves loads. Those forces create extreme vibration whose have a devastating effect on a civil structure that is why the engineers and research are very stressful to safe the structures and keep the deflection within a desired limit. Many researcher works to demolish or reduce the effect vibration due to earthquake on structure. There are many techniques established to reduce vibration of earthquake like Dampers (Tuned mass damper (TMD), Tuned Liquid Damper (TLD),) Base- Isolator and others [1]. Among that device, TMD considered as the most popular and commonly passive control device for mitigating the dynamics response of structures due to effectiveness, robustness and relatively easy installation. Tuned mass dampers, consisting of a secondary mass, a viscous damper and an elastic spring is commonly attached to a vibrating primary system for suppressing undesirable vibrations[1]. Closed form optimal design theories are only available for simple systems, i.e. two degree of freedom systems as pointed out by [2]. The base-isolation techniques prove to be very effective for the seismic protection of new framed buildings as well as for the seismic retrofitting of existing ones [3]. Exhaustive literature survey have been carried out to study vibration effects on structure due to earthquake and wind , it has been learned from the survey that for controlling vibration effect on structure isolation and dampers are found to be effective. Keywords: Earthquake vibrations, Wind vibrations, Base Isolation, Dampers

1. INTRODUCTION

The earthquake vibration control has received much attention in recent years due to its effect on the functionality of systems involved and health. Vibration can cause instability or even failure, as in the case in buildings subject to earthquake or wind intensity. Study of vibration effect is a vital requirement of structural designer particularly when there is a strong source of

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Experimental Study on Self Compacting Concrete using Fly Ash

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Abstract -- Self-Compacting Concrete (SCC) is a flowing concrete mixture that has the capacity to consolidate under its own weight. The current trend all over the world is to utilize the treated and untreated industrial by-products, domestic waste etc. as a raw material in concrete, which gives an eco-friendly edge to the concrete preparation process. This practice not only helps in reuse of the waste material but also creates a cleaner and greener environment. This study aims to focus on the possibility of using industrial by-products like Fly Ash (FA) in preparation of SCC. This project presents the results of an experimental study aimed at producing SCC mixes by adopting different mix proportions, incorporating mineral admixtures Fly Ash, as supplementary cementing materials and comparison of their performances.

Keywords: Self-compacting concrete, Fly ash

1.0 INTRODUCTION

Self-compacting concrete (SCC) is an pioneering concrete that does not involve shuddering for insertion and compaction.It does not require to be vibrated to achieve full compaction. The composition of SCC mixes includes substantial proportions of finegrained inorganic materials and this gives possibilities for utilization of mineral admixtures, which are currently waste products with no practical applications.

It is good alternative of conventional concrete especially in congested formwork where compaction is not fissile and in this situation, work with self-compacting concrete is preferred. With the rising demand for productivity and comfort at site as well as performance of the hardened concrete, use of SCC can reduce the labor cost, vibratory machine cost and also faster completion of construction schedule. The use of SCC provides greater flaccidity while placing and compaction than the normal concrete as well as acquiring required resources which results in time and resource saving.

The SCC has gained wide use in many countries for different application and structural Configurations SSC require a high slump that can be achieved by incorporating several chemical admixtures. The super plasticizer influences the rheological behavior; the viscosity and the yield value of the fresh concrete are reduced in certain concrete mix. The super plasticizer ensures high fluidity and reduces water powder ratio. Super plasticizer greatly improves pump-ability and the slump value can be greatly increased. The use of viscosity modifying admixtures increases segregation resistance of concrete and increases the deformability without segregation and then to lead high optimum self-compatibility. The SCC technology is now been adopted in many countries.

2.0 AIM OF THIS PROJECT

To study of effect of replacement of cement with Fly Ash in concrete.

 To find the optimum percentage of Fly Ash by replacing 0%,10%,20%,30% & 40% of Fly Ash which give maximum strength to concrete.

. To determine and compare the fresh concrete properties of concrete such as Slump-flow test, L box test, U-box test, V funnel test. · To determine and compare the hardened properties of concrete such as compressive strength, splitting tensile strength , flexural

strength

To find an alternative material for partial replacement of cement.

Material	Replacement levels	w/c	Flow Table Test (mm)
Fly Ash	0%	0.38	656
	10%	0.38	670
	20%	0.38	678
	30%	0.38	695
	40%	0.38	722

3. RESULTS OF FLOW TABLE TEST

JETIR1906Z10

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from and Aluminum as Electrode Material in Removal of COD and Color from Textile Industry Wastewater – A Comparative Study

Nitin W. Ingole

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Itestract: The technique of electrocoagulation (EC) is investigated with iron and aluminium electrodes. Comparative study of iron and aluminium as electrodes material on removal of COD and Color is conducted to investigate the histhility of most efficient electrode material for the process. The effect of relevant operating conditions such as current density (i) and electrolysis time were investigated for evaluation of performance of the electrodes. The result indicate that clectrocoagulation technique is effective in the removal of COD and Color. Results indicate that COD removal efficiency of 95% achieved at current density of 7.81 to 7.97 mA/cm² at electrode spacing of 20mm at electrolysis time of 60 min with iron electrode. In case of aluminum electrolysis time of 7.81 to 7.97 mA/cm² at electrode spacing 20 mm. The color removal of 100% is noticed with iron electrodes at all the current densities and all electrode spacing. However in case of aluminum electrodes the color removal efficiencies moticed in the range of 52 to 95%. Maximum of 95% color removal occurred with iron electrodes at current density of 23.44 to 23.59 mA/cm² at electrolysis fine of 75 min at electrode spacing. However in case of aluminum electrodes the color removal efficiencies moticed in the range of 52 to 95%. Maximum of 95% color removal occurred with iron electrodes at current density of 23.44 to 23.59 mA/cm² at electrode spacing of 10 mm. Iron as an electrode with iron electrodes at current density of 52 to 95%. Maximum of 95 % color removal occurred with iron electrodes at current density of COD and Color than aluminum. Iron is efficient in the removal of COD and Color than aluminum. Iron is efficient in the removal of polland color than aluminum.

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Key Words: Electrocoagulation, Iron, Aluminum, COD, Color, Textile industry wastewater.

1. INTRODUCTION

Industrialization is the need of the modern era. Industrialization is growing very fast since last few devades. As the population of the world is growing at a very latter rate, there is increase in the rate of industrialization to meet the needs of the growing population. The industries concurne water for different processes. Major part of the water used by the industries is converted into wastewater, which comprises of many chemicals, dyes, acids, alkalis, color, hazardous and toxic substances depending upon the nature of the industry.

If stills industries are growing at a very faster rate in India. The population of India is about 17.74 % of the total population of the world. To meet the need of such huge population increase in the rate of industrialization is the need of present time. So textile industries are also growing at a faster rate. Textile industries use water for various processes such as washing, manufacturing, bleaching and dynm, the se industries. Apail from presence of many risk mutab, heardow and toxic substances, textile industry wastewaters impart high color and COD to the effluent coming out of the industry. Sludge obtained may not be stable and there is problems of disposal of such effluent and sludge.

There are several methods for decolorization such as advanced oxidation process, chemical coagulation, adsorption, ozonation, reverse osmosis, bioological methods. Each of above mentioned processes have problems and limitations.

Electrocoagulation technique is the development of modern time. Many researches were carried out to investigate the feasibility of textile industry wastewater with electrocoagulation technique. Electrocoagulation technique emerged as promising technique in treatment of textile industry wastewater. Many researches were conducted to study the effectiveness of electrocoagulation technique in the treatment of textile industry wastewater.COD removal of 76 % and color removal of 95% achieved at 20 min detention time (NehaTyagi et al., 2014). Maximum removal of COD (86.5%) and color removal (93.4) achieved at initial pH 5 and detention time of 60 min.(SumanChakrabartty et

2018-19

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Need of Smart Transportation for Transforming Indian Cities – State of the Art

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Abstract

In the approach to the smart city mission, the objective is to promote cities that provide core infrastructure and give a decent quality of life, a clean and sustainable environment and application of 'smart' solutions. Smart transportation system is sentient soul of the smart city. During development of a smart city one of the most important aspect include effective transport system is to make the existing transportation system of a city smarter. For this modern means of transport must be included in the planning of smart city. While planning efforts must be directed to make the transportation system swift, efficient, cost effective and acceptable to the citizens of the city. The present paper discusses about the various means of transport which might be adoptable while planning for a smart city. Smart Transportation technologies include state of the art with a goal to improve surface transportation safety, efficiency, and convenience.

Keywords: - Sky bus, Metrino, Monorail, Metro rail, ITS.

INTRODUCTION

With increasing pressure on cities' mobility infrastructures due to rising inbanication, city governments all over the world are constructing new roads, bridges and torouch, and using intelligent transportation systems (ITS), to mitigate

transportation-related challenges and requirements. However, ITS implementation is costly as different technologies, platforms, and systems need to integrate into a single platform. Cyber security, data analysis, and connectivity will be critical to ITS success. Cities are

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2018-19

CONSERVATION OF WASTAGE OF POTABLE WATER

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Instruct: The conservation of clean water depends on minimizing wastage from leaks and reducing unnecessary or exercise consumption. Some wastage appears to be inevitable in every drinking water supply system. There are cases where in the order of 60% of the distributed water is unaccounted for, and not billed, due to leaks or non-metering. The leaks in the public mains system can be minimized by systematic inspection and maintenance by the authority concerned, it is more difficult to trace and remedy leaks on private property. A relatively small (3mm) leak in a service pipe, or arbitrary tap, under normal working pressure can waste 340 liters per day, the amount required to supply the needs of a family of three. Leakage and wastage on private property can be minimized by the use of quality materials and working relatively for the installation of plumbing systems, as well as promptly instituting repairs when needed.

Key Words: Water Conservation, Leaked Taps, Monitoring, Statistical Analysis, Modelling.

1. INTRODUCTION

Water covers about 75 percent of our planet, so it appears plentiful However, 97 percent of that water is salty ocean water, which we cannot drink. Only 3 percent water is fresh water, most is frozen in glaciers and polar ice caps. As a result, only 1 percent of the Earth's water may be available for drinking as surface or subsurface water. Consider just a few of the many ways we use water: In and around our houres

- For cooking
- = 1 or bothing, washing cloths and utensils
- · I or cleaning our houses
- Lor recreation, such as swimming, fishing, boating, and isotrac
- · hando ity and agriculture
- For transportation of goods.
- * 1 or evaluation steam power
- · Log prowth of animals and plants
- For manufacturing of products, such as paper, wool and concut
- · Loopenership electric power

The concernation of clean water depends on minimizing accernes from teals and reducing unnecessary or excessive concumption from wastage appears to be inevitable in every dembane water supply system, and the term "waste

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prevention" is used for measures intended to reduce losses to a minimum. In this context, the term "waste" refers to water that escapes from the system unused or unaccounted for, and not to human wastes or other forms of used or degraded water that are carried away by drains or sewers.

There are cases where in the order of 60% of the distributed water is unaccounted for, and not billed, due to leaks or non-metering. A single dripping tap (2mm dia. drop) can waste 75,000 liters of water in a year.

Wastage and leakage of water can occur from the public (mains) system or in the private systems owned by individual customers. In the public supply system, the best protection against wastage is the careful design and construction of the mains, combined with an active program of supervision and preventive maintenance and leak detection. In the private system, the main strategies are the prompt correction of leaks, the use of technologies to reduce overuse, and public education on water conservation. As well as metering and use of rate structures that are a function of volume consumed versus billing of the zone is accounted.

While leaks in the public mains system can be minimized by systematic inspection and maintenance by the authority concerned, it is more difficult to trace and remedy leaks on private property. A relatively small (3 millimeters) leak in a service pipe, or a dripping tap, under normal working pressure can waste 340 liters per day, the amount required to supply the needs of a family of three. While leaks within

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DECOLOURIZATION OF TEXTILE INDUSTRIAL EFFLUENT BY USING BIOMATERIALS

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Abstract:

Coagulation flocculation is the most widely used method and is applicable for the removal of the colour even at low concentrations. This paper represents the results of investigations carried out for the removal of colour from waste water by using natural flocculent i.e. Cactus, also Vera, ferrous sulphate and combination of cuctus and also vera. The parameters like ph, congulant dose, flocculent dose, mixing time of flocculent, mixing speed of coagulant, mixing time of flocculent, mixing speed of flocculent, setting time, concentration of waste water were investigated. The bio-flocculents cactus, also vera and combination of bath gives maximum colour removal efficiency of 89.73%, 82%, 83% respectively.All the result was valulated on the basis of mathematical analysis.

Key Words: Biomaterials, coagulation-Bocculation, colour, Taguchi modeling, textile ethnent.

1 Introduction

India is the world's second major manufacturer of textiles and garments after china. The textile indicative in India is one of the oldest manufacturing sectors in the country. It is one of the major indicatives in the world that provide employment with no required special skills and play a major role in the country of many countries. The textile indicative utilizes various chemicals and large manimum of water during the production process. Colour is the major pollutants present in the effluent from various textile industries. These are

highly toxic to living beings and have hazardous effect on their health. Thus removal of colour using natural flocculent is a major step towards the protection of natural resources. Coagulation flocculation is the most widely used method and is applicable for the removal of the colour even at low concentrations. Effluents from textile industry are a major cause of water pollution. In general, textile wastewater contains high concentrations of organic compounds, heavy metals, high temperature, high COD, high pH and strong color. Textile wastewater is a source of pollution, which could have effects on the ecology and environment. We have studied the feasibility of various natural flocculants and coagulants and its efficiency for removal of colour. For the optimization of various parameters such as pH, coagulant dose, flocculent dose, mixing speed of coagulant, mixing time of coagulant, mixing speed of flocculent, mixing time of flocculent and setting time; batch study is used. To validate the laboratory results taguchi modeling technique is used.

2. Materials and Methods

2.1 Preparation of synthetic wastewater:-

In order to batch study and to carry out examine the result we prepare synthetic wastewater by using various dyes and chemicals used in dying industry. Use of this dyes and chemicals ensures the same properties like waste water effluent coming from textile industry. Experiments were carried out on synthetic wastewater samples consisting of 300mg/L basic red dye 5001 B (commercial name of a direct dye used extensively in the region), 3gm/L NaCl, 5.56 mg/L hydrolyzed starch, 11.12 mg/L ammonium sulphate, 11.12 mg/L disodium hydrogen phosphate, 7-8 drops liquid detergent. Synthetic wastewater was prepared by mixing all the chemicals in tap water and heated at 80°C for 1.5 hours to stimulate the actual wastewater, which was then left to cool to room temperature. The physicochemical characteristics of simulated wastewater were tabulated in table 2.1.

2.2 Coagulant and flocculent preparation:

2.2.1 Coagulant preparation: -

Coagulant Used: Ferrous sulphate solution of 10% dilution make available an accurate analytical weighing balance, clean beaker, distilled/deionized water, stirrer. Place the beaker on the balance and tare/zero the reading. With the aid of the spatula

2018-19

Published: 27 March 2019

Whale-crow optimization (WCO)-based Optimal Regression model for Software Cost Estimation

Sumera W Ahmad [™] & <u>G R Bamnote</u>

 Sädhanä
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Abstract

Software Cost Estimation (SCE) is the emerging concern of the software companies during the development phase of the software, as it requires effort and cost factors for modelling the software. These factors are modelled using the Artificial Intelligence models, which seem to be less accurate and non-reliable by increasing the risk factor of the software projects. Thus, for estimating the software cost, meta-heuristics are employed. This paper proposes an algorithm, termed as whale–crow optimization (WCO) algorithm, which is the integration of the whale optimization algorithm (WOA) and the crow search algorithm (CSA). The main function of the

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Cyberbullying Prevention by Game Chat Learning : An Overview

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Abstract— A broadening network of online communication and social networking not only providing a wide range of technology but also given a wings to the cybercrime. This leads to increase a drastic numbers of reports in cybercrime. Various internet services assist to establish a new connections between persons or support a prevail one. However, they can also results in disobedience or cyber lawbreaking for example, Cyberbullying. Cyberbullying is the process to bullying someone by using internet technology via online chatting or social networking platform etc. Although it has been a problem for many years, the remembrance of its influence on young generation has showing a drastic growth in cybercrime. Social networking sites, such as instagram, Facebook and twitter provide a productive source to bullies. Teens and young adults who use these sites are unprotected to attacks. Through machine learning, we can detect language patterns used by bullies and their victims, and develop rules to automatically detect cyberbullying content. International Journal of Innovative Research & Studies

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Analysis of Basic File Searching Techniques in Structured Peer-to-Peer Distributed Network System

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Abstract

High Performance applications generates large amount of data. This huge amount of data generated from computation is then distributed over the system. Many difficulties arrive when users need these files for later use and eventually they try to locate them. For small amount of files this might not be an issue but as the number and size of files begins to grow, many problems come into existence making search even harder with use of ordinary methods. Hence this work focuses on study and investigation of various files searching techniques in Distributed Systems. Goal is to investigate and study more convincing searching methods other than those in existence and then analyses their results on various parameters.

Keywords— Distributed systems, searching, structured-peer-to-peer network, hash table, binarysearch-tree, symbol table, linear search. Sidhonii (2019) 44:94 https://doi.org/10.1007/s12046-019-1085-1 © Indian Academy of Sciences



Whale-crow optimization (WCO)-based Optimal Regression model for Software Cost Estimation

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MS received 2 August 2018; revised 19 November 2018; accepted 21 December 2018; published online 27 March 2019

Abstract. Software Cost Estimation (SCE) is the emerging concern of the software companies during the development phase of the software, as it requires effort and cost factors for modelling the software. These factors are modelled using the Artificial Intelligence models, which seem to be less accurate and non-reliable by increasing the risk factor of the software projects. Thus, for estimating the software cost, meta-heuristics are employed. This paper proposes an algorithm, termed as whale–crow optimization (WCO) algorithm, which is the integration of the whale optimization algorithm (WOA) and the crow search algorithm (CSA). The main function of the WCO algorithm is to determine the Optimal Regression coefficients for the regression models, such as the Linear Regression model and the Kernel Logistic Regression model, to develop an Optimal Regression model to estimate the software cost. The experimentation is carried out using four datasets taken from the Promise software engineering repository to perform effective performance analysis. Analysis is carried out regarding the mean magnitude of relative error (MMRE) that proves that the proposed method of SCE is



Efficient Data Embedding and Data Encryption in video Stream

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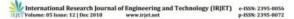
Abstract: - Now day's Digital video needs to be stored and processed in an encrypted format to maintain security and privacy. Data hiding in encrypted data without decryption preserves the confidentiality of the data. In addition, it is more efficient without decryption followed by data hiding and re-encryption. The data hiding directly in the encrypted version of H.264/AVC video stream is proposed, which includes the following three parts, i.e., H.264/AVC video encryption, data embedding, and data extraction. By analysing the method of H.264/AVC codec, the code words of intraprediction modes, the code words of motion vector differences, and the code words of residual coefficients are encrypted with stream ciphers. Then, a data hider may embed additional data in the encrypted domain by using codeword substitution technique, without knowing the original video content. In order to adapt to different technic application scenarios, data extraction can be done either in the encrypted domain or in the decrypted domain. Furthermore, video file size is strictly hide even after encryption and data embedding.

H.264/AVC videos will undoubtedly become popular in the future. Due to the constraint of encryption, it is very difficult and sometimes impossible to transplant the existing data hiding algorithms to the encrypted domain. In the paper gives the data hiding, on the implementation of data hiding in encrypted H.264/AVC video streams.

H.264/AVC having various advances in standard video coding innovation, as far as both coding proficiency improvement and adaptability for powerful use over a wide assortment of system sorts and application spaces H.264/AVC is a video pressure design i.e. standard for high definition (HD) advanced video.

2. System Implementation

The Video Encryption and Sharing is an application developed for preventing hacking of videos being shared via users. The source video is uploaded by the user itself which undergoes through various



Data Hiding in Video Stream by Efficient Data Embedding

MS. Rupali Wankhade¹, Dr.G.R.Bamnote², Ms. S.W. Ahmad³

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ABSTRACT - Nowadays the need for security is becoming more important due to increased security requirements, data security is mostly provided with data hiding. It is an encrypted domain without decryption preserves the confidentiality of the content. In addition, it is more efficient without decryption followed by data hiding and re-encryption. In the novel scheme of data hiding directly in the encrypted version of H.264/AVC video stream. divided into three parts, which is H.264/AVC video encryption, data embedding, and data extraction with the help of data hiding code word technique. The cloud server can manage the video or verify its integrity without knowing the original contents, and thus to provide security and protection. A user can hide a data and may embed additional data in the encrypted domain by using substitution technique named code word. In order to adapt to different application scenarios, data extraction can be done either in the encrypted domain or in the decrypted domain. Furthermore, video file size is strictly preserved even after encryption and data embedding.

Till now, few successful data hiding schemes in the encrypted domain have been reported in the open literature. With the increasing demands of providing video data security and privacy protection, data hiding in encrypted H2.64/AVC videos will undoubtedly become popular in the near future. Obviously, due to the constraint of the underlying encryption, it is very existing data hiding algorithms to the encrypted domain. The proposed scheme can achieve good performance in the three different ways.

 The data hiding is performed directly in encrypted H.264/AVC video bit-stream.

 This scheme can ensure both the format compliance and the strict file size preservation.

 This scheme can be applied to two different applications by retrieving the hidden data it can either encrypted video stream or may be the decrypted video stream.

KEVWADDS. Data Hiding in Encounted endoword



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Study and Analysis of Various Options for Utilization of Bandwidth Optimally in Wireless Networks

Ms. N. V. Pardakhe, Mr. S. S. Dandge, Ms. N. M. Yawale P.R.M.I.T. &R., Badnera

ABSTRACT

With the development of network services, richness of service types, and diversification of terminals, market competition intensifies. Wireless network optimization is developed towards the intelligent and intensive direction. Data mining is performed for large amount of data collected by network devices are unlocked, and network parameters and settings can be adjusted intelligently and automatically. Tools are applied to improve work efficiency, reduce optimization and maintenance costs, achieving intensive optimization management. The development of data services arouses great needs

for bandwidth, running short of fr improving the utilization efficiency requirements. Bandwidth is the or ment y rectam esources Qd

is network optimization focuses on ig the resources based on service er internet / intranet applications.

Optimized use of bandwidth in the specific locality can effectively give solutions for bandwidth utilization problems.

Page



61st IETE Annual Convention 2018 on "Smart Engneering for Sustainable Development" Special Issue of UECSCSE, ISSN: 2277-0477

A Survey of Detection of HTTP Bot

Mayank R. Dundale

Prof. S. S. Dandge Prof. N. V. Pardakhe

Abstract- A botnet is a group of collaborated computers which are remotely controlled by hackers to dispatch different system attacks, for example, DDOS attack, junk mail, click fraud and data phishing. The ongoing botnets have started utilizing basic conventions, for example, HTTP which makes it much harder to recognize their correspondence designs. The greater part of the HTTP bot transportations are established on TCP associations. Of every single current risk to digital security, be tnets are at the highest of the randown. In significance, consideration in this issue is expanding quickly among the exploration network and the quantity of diaries on the inquiry has grown-up exponentially as of late. This article proposes a review of botnet research and introduces an overview of botnet identification.

Keywords- Botnet, Feature Reduction, Feature Extraction, Legitimate user.

Dotnate are a standard amonast the mo

I. INTRODUCTION

directions from web servers under the assailant's control [6]. Accordingly, distinguishing bots with electronic controlling is more unpredictable than bots with IRC-based controlling. In this study, we have experienced different systems for HTTP botnet discovery and techniques utilized in them.

II. LITERATURE SURVEY

2.1 Botnet detection based on traffic behavior analysis and flow intervals.

In this paper, creator recommended that investigations movement conduct and arrange organize activity conduct utilizing machine learning. Here traffic conduct investigation does not subject to the parcels payload, so they can work with encoded arrange correspondence conventions. Proposed demonstrate permits distinguishing bot action in both order and control and account stages which is simply in light of the

Open with Google Docs



Impact Factor (SJIF): 5.301

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Traffic Control System For Emergency Services

Subodh Pachkawade¹, Ajinkya Bhonde², Anurag Bhagat³, Kishor Waydhane⁴, Sangram Dandge⁵

¹Computer Science and Engineering, PRMIT&R, Badnera ²Computer Science and Engineering, PRMIT&R, Badnera ⁴Computer Science and Engineering, PRMIT&R, Badnera ⁴Sasistant Professor and Project Guide, PRMIT&R, Badnera

Absract — Traffic congestion is major problem in cities of developing countries like India. Growth in urban population and the middle-class segment consume vehicles to the rising number of vehicles in the cities. Congestion on roads eventually results in slow moving traffic, which increases the time of travel, thus be notable as one of the major issues in metropolitan cities. Emergency vehicles like ambalance and fire trucks need to reach their destinations at the earliest. If they spend a lot of time in traffic jams, valued lives of many people may be in danger. We aim to propose a system which will help emergency vehicle to pass without any congestion. In this project, we will send the location coordinates i.e. latitude, longitude and direction, diatance to the database via mobile application which will be operated by the authenticated operator. Raspherry PI will fetch the information from database and it will examine aspects of the information fetched from database and turn the specific signal to green which will help emergency vehicle to pass without any obstacle.

Keywords- Traffic congestion, Location coordinate, Mobile application, Database, Raspberry pi.



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Auto Farm Monitoring System by Using IOT

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Abstract — Agriculture is the basic occupation in our country. But now due to migration of people from rural to urban and do to the lack of knowledge regarding technology there is hindrance in farming. So to overcome this problem we go for auto furm monitoring system by using IOT. Technological importance has been a great support for making decisions in farming. The development of agriculture has been on under development for the past few years due to lack of Agriculture knowledge, environmental changes and technological knowledge. Here, the main focus is on the improvement of rural and agricultural development through advanced information and communication processes. This project includes various features like humidity & temperature sensing and proper irrigation. It makes use of modem for internet. Various sensor nodes are deployed at different locations in the farm for noting the temperature and humidity. These framewers constructed information and charging application and the operations are performed by inte Poops of ture! II 471, untern u Quept prior board. This concept is created as a product and given to the farmer for their underer. Kerworks: OT, will, resolver on sensor.



61" IETE Annual Convention 2018 on "Smart Engneering for Sustainable Development" Special Issue of LIECSCSE, ISSN: 2277-0477

Data Modeling and Data Analytics: Big Data Perspective

Prof. Yogita S. Alone Prof. Ruchita A. Kale Prof. P. P. Deshmukh Prof. Gaurav J. Sawale

Abstract- The volume of data we deal with has grown to terahytes and petabytes in internet. As the volume of data keeps growing, the types of data generated by applications become richer than before. Traditional relational databases are challenged to capture, store, search, and share, analyze, and visualize data. Information is now available in an over a abundance, hat distinguishing the noise from the signal has become very problematic. The collection and storage of information was the primary issue. Carrently, there are massive amounts of data both structured and unstructured, that need to be analyzed in an iterative, in a time sensitive manner. In response to this need, data analytical tools and services have emerged as a means to solve this problemat.

Keywords- Big Data , Data Modeling, Data Analytics, Modeling Language

I. INTRODUCTION

An exponential growth of the volume of data produced and

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Data Modeling and Data Analytics: Big Data Perspective

Prof. Yogita S. Alone Prof. Ruchita A. Kale Prof. P. P. Deshmukh Prof. Gaurav J. Sawale

Abstract-The valume of data we deal with has grown to terrabytes and petabytes in internet. As the volume of data keeps growing, the types of data generated by applications become richer than before. Traditional relational databases are challenged to capture, store, search, and share, analyze, and visualize data. Information is now available in an over a abundance, hat distinguishing the noise from the signal has become very problematic. The collection and storage of information was the primary issue. Carrenty, there are massive amounts of data hosh structured and unstructured, that need to be analyzed in an iterative, in a time sensitive amount, of aresponse to this aced, data analytical tools and services have emerged as a means to solve this problem.

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A REVIEW PAPER ON INTERNET OF THINGS AND ROBOTICS AN INTEGRATIVE APPROACH

Prof. Komal R. Hole, Prof. Rupali A. Meshram, Prof. Pranita P. Deshmukh

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ENERGY

OTHER

HOME

Keywords: Internet of things (IoT). Page things (IoT), Humanoid robot.



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Different researchers are provides different types of IoTapplication/technology. Applications of IoT which is currentlyused in various areas like home, retail, cities, medical,agriculture, automotive/transportation, industrial and energy.E. Padma and Prof. Dr. S. Rajlakshmi [1] have proposedmethodology of Trusted Platform Module (TPM) to assist thesecure mechanism. They have built cloud-based architectureand have merged the TPM on IOT to handle the IOT and tovalidate the users. Using this methodology, the users getbenefits in performance, security feature and

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Smart bank	ing using IoT				
3 Author(s) Ran	i S. Lande ; Susmita A. Meshram ; Pranita P. Deshmukh View	All Authors			
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Abstract	Abstract				
Authors	Today, everything is associated, wireless, or being demand of changing time. The expanded utilizatio			-	
Keywords		 expansion in IoT information. IoT change lives and changes the way business is attempted. The paper presents use and significance of IoT in banking and financial Sector. Banks need to convert IoT informat 			
Metrics	into profitable data and thus increase their market share and provide better services to the clients. This study endeavours to cover issues such as banking frauds and early detection of fraud using IoT.				
	Notes: This article was mistakenly omitted from the original submission to IEEE Xplore. It is now included as par the conference record. Published in: 2018 International Conference on Research in Intelligent and Computing in Engineering (RICE)				
	Date of Conference: 22-24 Aug. 2018	INSPEC Accession Number: 18407511 DOI: 10.1109/RICE 2018.8627903 Publisher: IEEE			
	Date Added to IEEE Xplore: 28 January 2019				
	ISBN Information:				



Xallot: A Scheduler for Allotment of External Examiner for Practical Examination

Aksh A. Gillecher¹, Skobham S. Dakro¹, Kshinij K. Keikodo¹, Harshal P. Sobale⁴, Sausbh S. Uderdo¹, Prof. Ms. Kexael R. Holo²⁰

ULLUF Department of Computer Science & Engineering. Prof. Row Mayle Institute of Technology & Research, Rahmon -

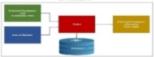
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L INTRODUCTION

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An Iris Recognition System: A good Idea for Security

Prof. Nupoor M. Yawale¹, Prof. Nilima V. Pardakhe², Prof. Meghana A. Deshmukh

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²Assistant professor, PRMIT &R Badnera, Amravati, (INDIA)

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ABSTRACT

In this paper we discuss an iris recognition system. There has been significant progress in improving the performance of computer-based iris recognition system over the last decade. This paper discusses a generic framework for the iris recognition system, and the variants that are frequently encountered by the iris recognizer. In today's word to maintain the security of information or physical property is becoming both increasingly important and increasingly difficult. It is most secure recognition system as iris doesn't change throughout adult life.

Keywords: Iris Recognition, Acquisi Pagel octization, & formalization Quatur + struction and matching.



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International Journal of Advanced Research in Computer and Communication Engineering

Vol. 8, hauer 4, April 2019

Identify Available Parking Space Detection System using IOT

Sakshi S. Jain¹, Samiksha R. Jadhav², Dolly R. Sathawane³, Rashmika S. Kamble⁴,

Prof. Rupali A. Meshram"

UG Students, Computer Science and Engineering, PRMIT&R Badners, Amravati, India

Assistant Professor, Computer Science and Engineering, PRMIT&R Badnera, Amravati, India

Abstract It analyses the parking sites are annihilde but sometimes it's very complicated to find out the compt parking seque and there is on any meth functionality mainlike the checking the parking part is available. In intermet better is the separate parking available for fiberability and indicates whereaver we would like to scatce parking set the two two texts that are built of the set of the same planes on fire sequences the parking data with any method. The set of the same planes are also set of the same planes on fire seasons: the parking data with an output the same planes that is very useful as days almost all papels to the same planes on fire seasons: the parking data with an output plane. The same run how the seasons are also also also seen plane to the value is in the parking data with neisering first. The same run how to reaster the advances on the standard in the parking data with neisering first. After standard some exerce plane and it shows that the correct standard some that the correct standard societ as catched for the transference and communities with the system. The difference between our system and existing a systems is that we intend to make ear systems are how the standard output as a standard garder as catching and the simulation of the systems is the system with the system.

Keywords: Smart placar, Internet of Things (IoT), IR sensor, Raspberry Pi

I. INTRODUCTION

Traffic jum caused by vehicle is an dorming problem at a global scale and it has been gowing exponentially. The difficulty or encourse it steres places the availability of primage proce. Most of far times we need to need to indice a difficulty or encourse it at the splaces the availability of primage process. The sterest is the splace is problem. To overcome for this statution there is a need of announts possing system that regulates proking in groun encourse lens human intervention. According to lot bechniques the system is connected with more than one device, vehicles and indice interm endered with strenger Spharel works of announts possing, and reduced human efforts. Job is the endy comparing with existing system the efficiency is improve, eccenary profiles, and reduced human efforts. Job is the endy model. A new strength sphare system is the product of grade post any new rate over its regulations models, user can region with the help of explanation powers and new can heigh to be spin the profile sphere.

So that, projected ryktini, denigned a zero package preceivation system that is would solve the need of exploring nettice spacking tota only would have don't be only indication. Level of conventional reservation-level package dony problem. To make spaces: detecting reasy to manage and name intelligent, the shifting of thanking is recommended for the detector to get the recognition results via singularge and proceedings spaces signals for development of reservation flap product dony system relations that the singular and an anticelest space of the singular don't and the space space space space system relations that exists in manuface products and the space sp

At the time of checkout the user has to pay bill and exits cherges if any then only burnier will get opened. There are three modelses (1). Anaboid applications (2) Interfixing of Microcontroller with useross (2) Interfixing of Microcontroller with rotator mater. This system is useful for users, whenever user want to parked the vehicle according to the user's parel at that time users can merever their own olds.

II. LITERATURE SURVEY

The anthor [1] has been proposed the system that is to automate the car and car parking as well. A model of an internatic car parking system that can identify the number of ear parked in parking area at any given time on the availability of parking iden. The entring and learning to the identify depend on the autorid application.



Research Article



Vehicle Tracking and Overload Detection System in Public Transport using IoT

Vaishuari D. Hajare¹, Deyanada N. Mcolezare², Sachin V. Charglani¹, Prof. Bapali A. Mc-thean⁴ Department of Computer Science & Fingineering PRMTAR, Radores, Muhawabera, India

Abdrect:

Now a day ties of excident happens due to correlation profile the vehicles. Every vehicle has some number of sustain gapper y but nover of the time but y visited in hit mass allows many gappengens which causes audites some times on that we shall be perside auto-oriented detection systems. The types of scores coupling date weight excerve m the vehicles supports in the dates surface and oriented. The detective will automatically discus the and and out out of possequent/possible and scores had the discuss of the start and the start mercers. That we had a start discussion profile and scores will automatically the vehicles. The detective will automatically and the start and the start discussion will reach the vehicles. The detective and many start and the start discussion and the start discussion will need to constrain the start discussion of the vehicles of the start mercers and the start discussion will reach the start discussion of the vehicles of the start mercers. The start will be the local the start mercers and the start start and the start mercers.

Kerwords: Accident, GPS Tracking, Overfead Detection, Vehicle Tracking,

I. INTRODUCTION

As the Wordens Sermor Networks have selectifically advanced more ranidly and more proficiently, they have become the key source for the advancement of IoT. They find it use in almost all fields including smart grid, smart transportation reviews. unart home, unart heapitals, and us on. The accomplishment of the above leads to the smart city development as mentioned by our Indian Prime Minister. The new applications and businesses are created continuously with the help of technology through the internet. IoT (Internet of Things) can help in integration of communication, control and information processing across various inangostation systems. Generally, in public transportation, there is lack of real time information. Carrying more passengers than caracity by bus is a hape problem. Some other buses squeeze people in the spaces between the seats. Example a space of 4 passengers will accumulate 3 passengers. Why have passengers become agents and disciples of impunity in the bus industry? The worst part is that the money never reaches the owner it goes into the pockets of the drivers and the conductors. In the situation when someone complains or refines to squeeze the conductor and some of the passengers will tell them to buy their own car. The importance of controlling overloading payoragers cannot be ignored because it helps to reduce deaths and cannilies as the findings show that excessive passengers is one of the major cames of many deaths and casualties when accidents occur. These should be a way of controlling that because passengers have to sit and wear seat bells for their safety 111. It is clear that, at some point, we need to limit the number of extra passengers to be accommodated. Worldwide people invest in quality control programs in order to assess and improve the services provided to the passengers [2]. Overfoad passenger in public transport is a serious problem in many countries across the world because it incurs hope costs in terms of life, property and maintenance of bases. Many countries have established a system to reinforce overload limit regulation (rule) and some are attempting to address the issue

and implement strict controlling mechanisms. The stratele for the moblem since the last decades particularly after the introduction of public transport bases received more attention. and yet these are playing major roles in the transportation satisfying the transport demand generated by the prowing concerny and ever increasing population hoft in developed and developing countries. The problem of overloading is generally under control in many developed countries while it is still a challenge too many developing and under developed mations. Public transportation service available on sharing basis for the benefit of general public. It includes city bases, individuars, itum, ferries, Unlike transportation modes like corpording, rickshows and taxis, this yestern encomposes an entirety of strangers. Now a day, lots of accident happens due to overloading of the vehicles. Every vehicle has some number of seating capacity but most of the time they violate the low and allows more passengers which causes accident some time so that we need to provide auto overload detection varies. The types of sensors employed are weight sensors on the vehicles suspension to detect overloaded vehicles. The device will automatically detect the in and out count of passenger/goods and Sensors will collect information from the vehicles, forward this to an on board data and/cerr incentally to be placed at authority stations). Authority station will mark the time and location of that vehicle at that moment. Later that whole data will use to completely analyze the vehicle. In impection of vehicle the authority stations will analyze the overload

A. Objective and Scope of Project

The sim of this project is to identify the effectiveness of using overlead system in enhancing the operations in enforcing vehicle weight limit regulations. Specifically, this project attempts to quantify the effect of overleaded vehicle and pertext the overlean and indicatoratore of the reads.

 Developing responsive and interactive way to manipulate the fine and check for the passenger security in public transport system.



A Review on Cluster between Internet of things and Social Network

Ms.S.G.Pundkar, Ms.R.S.Badre, Ms.N.A.Deshmukh, Mr.A.U.Chaudhari

Abstract The clustering between Internet of Things and social actworks cambles the relation of people to the everywhere computing universe. In this framework, the data coming from the situation is provided by the Internet of Things, and the social networks bring the bond to allow human-to-device communications. This paper explores the novel paradigm for everywhere computing beyond IoT. denoted by Social Internet of Things. Therefore, this paper first addresses a complete view on Social Internet of Things and input perspectives to imagine the real everywhere computing. Later, a literature evaluate is accessible along with the evolutionary the past of IoT research from Intranct of Things to Social Internet of Things, Finally, this paper proposes a basic Social Internet of Things architecture and presents a conversation about enabling technologies, research challenges, and open Issues.

Asyword's Internet of Things , Social Internet of Things , Social Networks

I. INTRODUCTION

The position on the edge of a new age with actual phimitens computing and communication where many gadgets, such as sensors, RFID toas, and smart electronic devices, surrounding us will be on the association [1], [2]. The andaets would vanish and interlace themselves into the material of our daily life to work in show to support us in shipping out daily life actions, tasks and rituals in an easy, natural way using information and intelligence, hidden in the network connecting the gadgets. [1], [4]. The IoT vision of pervasively involving many things which is able to interact with the surroundings around us and receive data on its type that was carlier unavailable by just looking at a collection of things [5]. In other words, in carlier Intranet of Things [5], [6], which was a local network of a collection of things such as wireless sensor networks (WSNs), machine-to-machine (M2M), and smort homes, can only take out regional data containing particular content from the things, IoT can present large scale, inclusive, and historical data by collaborating between apart intranets of things even if they have regarding devices, local announcement technologies, and consumption goals. Furthermore, IoT enables the making and composition of new services and applications, offering to personality users a new ecology system where special intranets of things can combine. In Internet of things, as revealed over, an individual user

connects to the others via heritage networks; on the other hand, sets of things work together with each other via the Internet for offering information to stylish services and applications, while each user uses them. The IoT follows two interaction paradigms: 1) person-to-person and 2) object-toobject, and then person simply make use of information from object as an elderly shaped client-server communication model [7][8]. In this way the loT so far does not agree to a right connection between person and object, i.e., humon-tothing, for real everywhere computing [6]. In order to practically mix the ubiquitous computing in our outlook daily life with high quality, we need to progress the connection of all the associations between users and object, and to enhance the availability of computational control via sets of things surrounding us. This logical pattern can be realized from side to side exhibiting features from homens social network and adopts them for the suggested universal social network of all entities. The feature set can include the interactivity idea. profiling system, advice, and much up of services. This social network assists in the rising of new communities motivated by increasing social inform from traditional social networks. could give the opportunity to realize customer requirements. and thus they also recover the accessibility based on helief in each group of people. In fact, growing the accessibility of processing power would be accompanied by diminishing the visibility [1], [9]. Thus, this novel danacrous vision with better mblicity is denoted by SIoT.

2. SloT Architecture

To review our idea toward a future-driven SIoT, we consider the following elements to be part of the architecture:

- I) Actors
- 2) An intelligent system
- 3) An interface and
- 4) Internet.

Next, we discuss about each element in the architecture in detail (see Fig. 1).



Research Article



Analysis of Reducing the Delay in Roadside Unit Caching Mechanism Via Hybrid Compression Technique

Wasudeo B. Pahurkar¹, Rupesh D. Sushir², Ku. Archana B. Pahurkar³

Abstract:

Recent improvements in vehicular ad hoc networks are accelerating the realization of intelligent transportation system (ITS), which not only provides road safety and driving efficiency, but also enables infotainment services. Since data dissemination plays an important part in ITS, recent studies have found caching as a promising way to promote the efficiency of data dissemination against rapid variation of network topology. In this paper, we focus on the scenario of roadside anti (RSU) caching, where multiple content providers (CPs) in no improve the data dissemination of their own contents by utilizing the storages of RSUs. To deal with the competition among multiple CPs for limited caching facilities, we propose a multi-object auction-based solution, which is sub-optimal and efficient to be carried out. A caching-specific handoff decision mechanism is also adopted to take advantages of the overlap of RSUs. We will improve the system using a novel compression algorithm which will take into consideration general compression with data aggregation in order to improve the overall system performance.

Keywords: Reducing the Delay, Energy, Jitter and increase Through put, PDR Using Hybrid Compression Technique.

1. INTRODUCTION:

Recently, with the development of vehicle industry and wireless communication technology, vehicular ad hoc networks are becoming one of the most promising research fields. Due to their unique characteristics such as high dynamic topology and predictable mobility, VANETs attract so much attention of both academia and industry. Vehicular ad hoc networks (VANETs) are becoming increasingly popular in recent years, aiming to cope with the strong demands for communicating on the move. As more and more communication and computing techniques being enabled by VANETs, it is promising to deploy Intelligent Transportation Systems (ITS) widely in our real world [1]. By combining the theoretical improvements with the development of transportation infrastructure. ITS is expected to alleviate or even prevent many road traffic problems such as congestions and accidents effectively. To achieve these targets, roadside units (RSUs) are being deployed as the most significant infrastructure in ITS [2]. RSUs are typically Internet-connected devices, dedicated in exchanging information with on-board units (OBUs) placed at vehicles. Therefore, vehicle-to-roadside (V2R) communications are enabled in addition to the vehicle-to-vehicle (V2V) communications. Although initially designed to improve road safety and driving efficiency. ITS can also provide infotainment services for the passing-by drivers and passengers with the help of RSUs, such as commercial, informative, and entertainment services [3]. One of the prerequisites for infotainment services is to design the data dissemination strategy in VANET environment, where data can either be generated by the OBUs in VANETs or by the content provider (CP) on the Internet. In both cases, wireless data need to be disseminated to the given set of target vehicular users through VANET. However, due to the rapid changes in network topology and high variability of the connectivity, it is hard to guarantee that data can arrive at targets safely, accurately and punctually [4]. Therefore, data dissemination in VANET still remains to be a challenging task.

The main contributions of this project work are listed below:

involves multiple CPs that is competing for the limited caching storages of RSUs.

2) To formulate the caching problem with the objective to maximize the total amount of downloaded data, where a caching-specific handoff mechanism are adopted due to the overhan of RSUs.

3) To provide a sub-optimal solution based on multi-object auctions, which is efficient to be carried out and also compatible with the existence of multiple MNOs.

VANETs which use vehicles as mobile nodes are a subclass of mobile ad hoc networks (MANETs) to provide communications among nearby vehicles and between vehicles and nearby roadside equipment but apparently differ from other networks by their own characteristics. Specifically, the nodes (vehicles) in VANETs are limited to read topology while moving, so if the road information is available, we are able to predict the future position of a vehicle; what is more, vehicles can afford significant computing, communication, and sensing carabilities as well as providing continuous transmission power themselves to support these functions. However, VANETs also come with several challenging characteristics, such as potentially large scale and high mobility. Nodes in the vehicular environment are much more dynamic because most cars usually are at a very high speed and change their position constantly. The high mobility also leads to a dynamic network topology, while the links between nodes connect and disconnect very often. Besides, VANETs have a potentially large scale which can include many participants and extend over the entire road network. It is precisely because of both of these unique attractive features and challenging characteristics that VANETs could draw the attention from both industry and academia.

2. OBJECTIVES

 To focus on the roadoide unit caching scenario which involves multiple CPs that are competing for the limited caching storages of RSUs.

2) To formulate the caching problem with the objective to



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Study and Analysis of Various Options for Utilization of **Bandwidth Optimally in Wireless Networks**

Ms. N. V. Pardakhe, Mr. S. S. Dandge, Ms. N. M. Yawale P.R.M.I.T. &R., Badnera

ABSTRACT

With the development of network services, richness of service types, and diversification of terminals, market competition intensifies. Wireless network optimization is developed towards the intelligent and intensive direction. Data mining is performed for large amount of data collected by network devices are unlocked, and network parameters and settings can be adjusted intelligently and automatically. Tools are applied to improve work efficiency, reduce optimization and maintenance costs, achieving intensive optimization management. The development of data services arouses great needs

for bandwidth, running short of fr improving the utilization efficiency requirements. Bandwidth is the or

0

Page

s network optimization focuses on ng the resources based on service internet / intranet applications. Optimized use of bandwidth in the specific locality can effectively give solutions for bandwidth utilization problems.

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An Iris Recognition System: A good Idea for Security

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ABSTRACT

In this paper we discuss an iris recognition system. There has been significant progress in improving the performance of computer-based iris recognition system over the last decade. This paper discusses a generic framework for the iris recognition system, and the variants that are frequently encountered by the iris recognizer. In today's word to maintain the security of information or physical property is becoming both increasingly important and increasingly difficult. It is most secure recognition system as iris doesn't change throughout adult life.

Keywords: Iris Recognition, Acquisi Pagel octization, & formalization Quatur + struction and matching.



A Survey of Detection of HTTP Bot

Mayank R. Dundale

Prof. S. S. Dandge Prof. N. V. Pardakhe

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Arysonn's Bohnet, Feature Heduction, Feature Extraction, Legitimate user.

I. INTRODUCTION

Botnets are a standout anangst the most keen current threats to digital scenarity. The term better is utilized to characterize a system of pervaded machines, named hots, which are underscath the control of a human administrator normally known as the but ace. Bots are utilized to complete a comprehensive chargeshildy of fieldsh and destructive activities against frameworks and administrations, including foreswearing of-benefit (DoS) assaults, spars spreading, phishing, and click exection. Bothets are sorted out systems of triated (Zombie) mechines running bot codes, classified by their utilitation of a maximum and control (CAC) channel. Utilizing the order and control of hotnet, a hot ace can control a huge gathering of traded off hots and after that perform actions assaults . At early occusions, CRC correspondences depended on Web Hand-off Visit (BRC) convention. The aggrossor used to effectively issue orders on the exceptional channel of TRC server to every one of the hots. As of late, HITTP tany into a more well known correspondence convention for bots [9]. These online C&C bots attempt to blend into general HTTP activity, which makes them more had to be distinguished, since MTTP is a usually utilized system correspondence convention in moments ambicutions. The HITTP buts as offen as possible perpett and dewnload

directions from web servers under the availant's control [6]. Accordingly, diretignishing hors with electronic controlling in more mapedietable than here with BRC-based controlling. In this study, we have experienced different systems for HTP bottet discovery and techniques utilized in fleres.

II. LITERATURE SURVEY

2.1 Botnet detection based on traffic behavior analysis and flow intervals.

In this paper, center reconstructed that investigation meterscence conduct and arrange regaries activity conduct utilizing machine learning. Here write conduct investigations does not soliptet to the purch probed, so they one weak with encoded arrange correspondence concessions. Proposed demonstrate parents distinguishing for action in both other and control and assort stage which is sensity in higher of the perception of its system. Doe qualities for specific tase interimes.

2.1.1 Methodology Used

Creater right off the bat thinks short different better location machine learning procedures through system conduct investigation like Bayesian Network, Support Vector Machine and utilized like to consider or colour location, calculation.

2.2 A Network Behavior-Based Botnet Detection Mechanism Using PSO and K-means

In this paper crostne proposed a system that gates a basic and direct turkings or field. The second composition of been composited williams that the prismary system precision of been between the second systems. The distance second system PSiO-K-copilias branching advantation is utilized to autilize the potential individuals from flower. Spectra utilizes that turking flows, instand of the decayantized basics subleases, to find the supports to its contrast. The principle preferred standpart of this floware-work in flat cleard down and regizer to introduce difference discovery applications so it is agreeprint; for confinence arranges, a house system, and a versetile 50 companie.



Pulling social media twitter data into R

Roshan R. Karwa

Vishal V. Rathi

kathi Parag P. Kadu

Ankush R. Deshmukh

Advance. It is underware as well as language considered as a slatiset of the 5 is language produced by the r. LAT ST HildLanestration. Exit is a well, analysis and suchla programming language which includes constitution of the stress stress stress stress stress stress stress bandling and interpediently. For produce, as set of appendix handling and interpediently. For produce, as set of appendix stress stress stress stress and included group director. Restmand, Legistic which can be used to perform operations Data Objects like Vorter, Fatters, Array, Lat and Data Franze, R. provides a growt, stratest and included group disable for data analysis. Repetite groupled in failtings for data analysis and demonstrative, whither directly at theoremptice to printing at the papers. This paper is about have to ago to perform a which we this.

Keywords-Twitter, Data Extraction, Analytics, Social Media

I. INTRODUCTION

Data is factual thing or entity. When data isorganized, processed or presented in a given context,it is called as Information. For example, Student isData whereas his her percentage is Information asPercentage will be processed. We reside in a world that's drowning in data. Data is not only in Textformat but also in other formats like Image, Video.and Geographical Location etc. That is, Data isavailable in Structured as well as in unstructured dataand study of Data is called as Data Science. In otherterminology, Data science is the multidisciplinaryfield that focuses on finding actionable information inlarge, raw or structured data sets to identify patternsand uncover other insights. The data science domainlooks for to find out answers for areas that areunidentified and unforeseen. Analysis of this data isvery important. To analyze data, one need toappropriate platform where data will be stored anddata will be retrieved.On Social media like Facebook, Twitter, Instagramand Whatsapp, users express their opinions by meansof Posts, Status, Tweets, Stories or messages. It isvery important to analyze this data and first step inanalyzing data is Extracting Data from SocialMedia. This paper deals with extraction of data(tweets) of Twitter media using R Programminglanguage. [13]R which is both software and programminglanguage is provides different packages that helps toachieve objective. R is Interpreted language that is it is not a Compiled language, there is no need tocompile the code written, it will be directly run onconsole.

II. PLATFORM FOR PULLING DATA

RStudio is a open source integrated developmentenvironment (IDE) for R programming language. Itwas developed by JJ Allaire and Chief Scientist atRStudio is Hadley Wickham. It is accessible in twoeditions:

 RStudio Desktop: The program is run locallyas a regular desktop application

 RStudio Server: It allows accessing RStudiousing a web browser while it is running on aremote server.

III. LANGUAGE USED FOR PULLING DATA

Language used for pulling data from Social MediaTwine is R Programming [11]. It is hierperterDForgramming language. Once you type commands, avoid the exacted directly without compling. One cargetfrom many operations on R using R like Obtaningsstellite image of Particular ares, Restaing from file writing into Play R. Packager control using approprint packager. Packager contain collection of Functions and issumple data. These are accumulating under directorycold L'Union' in R environment.

To install Package, the syntax is

install.packages ("package_name")

The above command gets the respective package fromCRAN Website and then install in your Renvironment. While installing, it gives message toselect nearest location. Select India (https) if you arein India or otherwise.

IV. PACKAGES REQUIRED FOR PULLING DATA

There are 5 Packages required to do the required task, they are as follows: [8]

1) twiiteR 2) bitops 3) ROAuth 4) RCurl 5) RJSONIO



DOI: 10.5281/zenodo.1488715

GLOBAL JOURNAL OF ENGINEERING SCIENCE AND RESEARCHES A NOVEL AUTOMATED BLOOD BANK SYSTEM USING ARDUINO Vibid V. Radii 'A Rodan Karwa'

⁴Assistant Professor, EXTC Department, Sipoa COET, Attravati, India ²Assistant Professor, CSE Department, PRMIT&R, Badnera, India

ABSTRACT

Biood in Life and that to be made available or and when expande. Obviously, it is a dow involved die donase and the respirate When as sensure regular three from the respirate in marke to resch the donar a paying from all the model. Andmid may get involved, and this is have mantenaried biord bank censes into existance A baser-to-harm interter would be the bare navere and three consummations could be ber industed by payofing and direct link between the two set. It respirates Micro USM of SV and 2A genere supply only. Entire communication takes place with SMS Gherr Messaing Service' which is comparison to barble types. Articutared Blood Bank, is a doma couse two project both for the given and takes. The passimate sense of the worder of entirence, which were in a person pathene of haveing to ask. If that Life-found in a well-convintionant copy us put allor ready help is provided by dis: tift saving payiest. The proposed wave explores to find blood donars by using GSM based Acchines Kit. The vision is to be "The height of every halfs in used, of a volumetry blood dame."

Keywords: Android, SMS, Micro USR, Communication.

L INTRODUCTION

Blood is the red fluid that circulates in our blood vessels, i.e. venin and artarine. As for justification. Thare many can be no substitutes for wide ranging need for blood, no other possibility to get it so quickly through other alternatives. It cannot be made on manufactured. The more widely it is used, the more society will become source of the mage of its utility and practices which made a valuable for a diversity of seeid purposes. Science has repeatedly insisted on the next to examine the meany of blood and its score near estimation they.

Blood is the human that carries out all the participatory function of the body—annual, thetat, blooding and all this real in color but with different rankings samely A. A.M. and O and genefic about who shall has what. Blood too is feakientiki – at lass its own matching system AB is a universal receiver and O is the universal Docor. Group A blood has only the A ranking, argong H has coly the H and gar, group Al blood has first for a blood has reliter.

Blood can be stored for a limited period of time that is why the blood banks need a steady and constant collection.



Figure 1.1. Donor- Recipient



(C)Global Journal Of Engineering Science And Researches



Pulling social media twitter data into R

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Vishal V. Rathi

thi Parag P. Kadn

Animah K. Deshmukh

Advices Re sufficiency to well as longing consistent in a dilution of the Unrapper protocols by non-TCT Heff-Antoniales, E is a vell simplify and non-the programming lenging which includes the vell simplify energy which includes multiplication of the transmission of the second simplify and the second simplify a second simplify and the second simplify and the second simplify a second simplify and the second simplify a second simplify and the second simplify a second simplify a second simplify and the second simplify a second simplify and the second simplify and the second simplify and the second simplify a second simplify and the second simplify

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I. INTRODUCTION

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2) R546dio Server: B allows accurring R5tradioning a webbrawser while it is running an arcmote activat.

III. LANGUAGE USED FOR PUTLING DATA

Language used for paring data from Facul Multi-Tentra to R Fragmaniang (1), K is hittperformanism language. Due you type constructs, wild be causated devely without coupling. One ampedfrom may equivalence of a oning R like Ottainagenetize image of pariotic exert. Landing from Euclosing into Flox, Analyzing data by generologicouple & Charts ex. This of Enzatures can begrefated using approprint packange. It folgos results of frontient of functions and its sample data. These are accounting under discovergont of "Landy" in R merconest.

To install Package, the syntax is

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The shows command gets for respective package from CRAN-Website and data initial in your Resviewment. While installing, it gives measure treatest measure function. Schort India (https) of you arous larks or otherwise.

IV. PACKAGES REQUIRED FOR PULLING DATA

Three me 3 Packages required to do the required task, they are as follows: [8]

1) trained 2) hittps 3) ROAuth 4) ROath 5) RJSONIO

Picture Exchange Communication Software for Person with Intellectual **Disabilities**

Prof. P. P. Kadu² Validary Aher² Profiksho Bonde³ Sneho Tonrse⁴ Pralakta Kawar⁸

13.45 Peof. Ram Moshe Inscitute of Technology and Research. Radness. India

Abstraction Persons with intelligented Abstraction have also mental development therefore, it is very difficult for them to communicate with general public in vociety. Such people cm'i conces fiernaches saint henmute because il is very hard for them to understand and suplement servence construction. The aim of his study into develop and means a learning concerning the Picture Exclusion Concernington (PPCS) software for Aution Society Discoler (ASE) children's the underlying objective of this conduction is to margine that autistic children can have a better alternative intervention through the PECS approach so that they would particular on the threepist a great deal or go to the satism center. which is offen coeffy. It will help that person to express farmelyes so that all kind of anticity in their mind will be diminish. Such receils con't as mowhere slave because of they much doubling but with the balls of this cofferen they can communicate with other to fulfil facts all nearly. This help them to incomve communication up one day will be muchle of speaking on their even without one hole. In our presented contrast, the prepared a size by size opportunity size, content for fernance beging intellected disabilities with the late of rought technologies. In improve the day confarmination, picture enchanged constraining contem is a mine modile.

Keywords: ASD, PECS, SeeS

L. LOBANGARY

The picture exchange communition system (PECS) is continued a used as a communication will for children with ant, on spectrum danseder (ASD), a has been used with a wide variety of learners. Born pre-scheel to adults, who have various communicative, cognitive, and physical imprimately, PECS was constal, in 1915 or the Deleving Action Program. by Levi Front and Anthy Bondy. They stated that usual communication techniques, including speech insitution, sign heppeness, and plature paint writeria, depend on the tendler to initiate areial interactions and none factual on teaching students to instane interactions.

PECS is developed to teach functional commutation skills with an initial form on mentaneous communication. It has been and continues to be implemented. in a variety of artiligy and contexts flarme, school, community) to them have the skills to communicate their wants and mode PECS does not most complex or constraine gamericals since it uses picture symbols as the modulity. PDC'5 is a mathed to instruct young addition or any individual with a communication impairment a way to communicate within a securi centent. Reveach has shown that many prevclosion, using PECS also started developing speech its par the current information. FLCS has been incorn as an emerging treatment shows to increase ormentancettees shifts for individuals with AND. People soffering from the Astistic Spectrum Disorder find the most basic everyday tasks are net casey he suplices that he flack inability to compressionly neurally with others. Throughout time, many effects have from taken to facilitate the forming of a new language and try to help AND children and governments to communicate more easily with other people. The most thences crystem newsdays is called the Picture Exchange Communication System (PECS). PECS methodology is very simple and clear. Objects see shown as pictures in early that see much to express the needs and wants of ASID orfficeers. This crutem has been proton to be very effective in teaching the basics of a bronzen mit hehrer anticie zonale annennieste with others in a sectial context.

A Problem Simisment

Propris who have aution shildren mostly have difficulties as they need to adjust their shilly activities and pay ontrostruction to their mitiatic children. Parents can't affind first for the notives care control. Life of person having intellectual disabilities is getting keeler and harder. Not every payer has that much information about pees so they can't help their child to evenessia the difficulties of communication, PECS you delivered in a variety of certaid ways, such to began and schools serves the 13 studies. PECS was implemented specifically by experimeners or trained personnel in three studies (Adhias & Analysi, Clar Ba-Claury et al., 2002. Const & Simpson, 2000), while the investigant side studies stillated teachers do assess in the intervention delorency. There are some softward's multiple information the state of the softward but they us not efficient at sense have only communication fights and some lince only learning facility. There is no such collecter which have equilibring of datur both in second manney. Scope of the Previous software design related to this subject-lawse't have verice presention.

II. LODGATING MANY

in IU proposed methodology there is a Tablet-based software named (CAN which will help ration claktors's learning process. These shelthen leaves a word needed to be pronounced more than 100 times in order for children with mations to remember it. This was a prest bundles for the congines. With iCAN, children on learn by themselves. such to the relief of the carepirers, which provided an availant UK when teaching. In tenas of the presentation of comparies each company has a label, colour, and small pictures because children with aution tend to have better abilities to recomplize robust and platenes, and after learning basic word, the next step in to least nextenses. iCAN provide in coder way to make actience that can be manufall for fature 10.0

In 12 proposed methodology there is a chat application which is used for communication between two person having intellectual doubilities at long distance by ming qualtel. The basic act is one evaluation cannot of about 2100 centrol. The cypitol set includes also a few self-made symbols and pictures of places fast me families to the test more. Symbols in each entracey are pirces a binary priority value, with higher priority symbols bring listed at the stort of



A review paper on Internet of Things: Applications & Challenges

Shrati G. Taley

Prachi N. Deshmukh

Rasila S. Badre

statust-Nowadays Internet of Things (IoT) gained a good attention from researchers, since it becomes an essential technology that guarantees a rational human being life, by permitting a communications between objects, machines and each thing at the side of proples. InT represents a system that consist things within the globe, and sensors attached to or combined to those things, connected to the Internet via wired and wireless network structure. The IoT sensory will use numerous styles of connections like RFID. Wi-Fi, Blurtooth, and ZigBer, additionally to permitting wide area connectivity using several technologies like GSM, GPRS, 3G, and LTE. IoT enobled things can shore facts regarding the condition of things and also the recompassing survoundings with individuals, software systems and different machines. By the technology of the InT, the world can become smort in each aspects, since the loT con provides a method of smart cities, smart brolthcare, smart homes and building, additionally to several necessary applications like smart energy, grid, transportation, waste management and surveillance. In this paper we tend to review a concept of the many IoT spatications and challenge that focing the implementation of the IoT.

Keywords: IoT Applications, Petuse Technologies, Smart Cities, Smart Environment, Smart Energy and Grid, Smart Mumfacturing, Smart Healthcare.

I. INTRODUCTION

The Interact of Taings (6cT), scansings related to as the Interact of Objeck, can modely everything together with construction. The Interact has a bearing on observior, communication, business, science, government, and humanity [6]. Cherely, the Interact in absorbs the most important and promofild constrains in all of Interach interact models with the construct of the Internet of things, the Internet becomes from the together in each local 11.6.

Internet of Things is new technology of the internet accessing. By the internet of Things, objects acknowledge themselves and procure intelligence behavior by creating or enabling picted decisions thinks to far actual fact that they? communited their programs throadwork [15]. These electric vill access infermation fand has been aggraphic by different fange, on they? argument different services [15]. Figure 1 reviews that with the internet of fange, meyhing' one of to o community is the internet at any tast from megdees to provide any services by any attention in anymen. This is no can resolve on advances by any attention in anymen, this is no resolve on advances in and or paysion travel services in a structure in the cast hans, to provide a versa services has mentioned as a service on a distribution [11, 12].



Figure 1: Internet of things Concept

By developing the 16° tradinising, testing and deploying product will be a loc of about to inglementing unant antisensates by 2003 1001 in the same fitness, strong- and distributed individuals, machines, must objects, surrounding space and platforms connected with wireless/wirel sensors, MM devices, PADD tays can produce a extensity anductate consume autoremacted by a dynamic network of serversks [12].

In the b7T, the communication leagning will be besed on interspensible probation, a quantum strategy and continuous and platforms [14]. Let during this rentest could be a generic turn and every one objects will play a Keyly role to this reso-intention to during the maining sound environments, where the role of the interactly making sound environments, where the role of the interact has contexpiled [17].



A Review on Smart Object Based on IOT

Frof. Rasika S. Hadre

Prof. ShrutiG. Taley

ETaley Prof. Prachi N. Deshanikh each a schurek is called a unset activerk[34].One can also

Alisingel-Novadays we live in a world, which a period ago would only he described in the atomic fittee Becatary. Darks day Brings because somet and back minorities and regimerry siragely for developing not only new suchmanyative devices, but also homes, factories, or even cities, Becalte of non-stop development, many of these concepts are still heling just a vision of the famous, which still desizes a lat of effort to became true. This poperturbers for mage of adjective smart in respect to technology and with a special emphasis on the smart factory-manual placement among anders stades, Bur to a absence of a convenues of common under-trading of flictures, a unified definition is proposed. The rancopinglication will not only other in different search factory visions reported in the laboratory. but she link the fundamented characteristics of this emerging menufacturing concept instead meaninemering practice. Subsequently, the authors discuss the challenges of the potential space factory applications in SMEs, and also propose the doture research stowpolar is order to further develop the smartfartery reserved.

Asyments Innus! Fastury; U Fastury;Beat Time Factory;Maanfacturing of the Furney;SMEs; adaptive; Bruthic announcies.

I. INTRODUCTION

Currently people are surrounded by several things that are colled smort. North everyhedy have a smortphone, some people have smart homes [16], which are related to smart ands [1]. South Koren's government in collaboration with the local industry has even hereched the project to form the smort city [4]. To order to produce three large smart systems, senset devices [28] have been used. The label smoot (real incerdangeably usab- intelligent) looks to be should in many different contexts, because its meaning with favours to objects in yet not cloudy defined. Smort, in some contents, refers to an independent device, which usually consists of following: a senace, and/or an actuator, a microcomputer and a transmirse [21], 5-eventheless, adjective smart is also nermally used to characterize on object that was improved by implementation of further flutures, which introduce multiplatflym communication and increase its computational shifting. The intelligence of such device can be exposed by expension in a network of other smart devices, which have the ability to check the variety state updates and decide whether to not on them or does not not on votions [34]. What is not suggrining,

End a reference to smart elirects, as items herring the obility to store the link related dots as well as it may affer scores to it for a honors or multite mer(15). There are also smot products, which are emipoed with the memory understood as a sent of product, [29], in the case of homes, smart is constantly used as a systemum of expensively entroped [27] [24]. It can also refers to loome with systems for monitoring and controlling the appliance [1] New, what is important, a menitying function could not be limited to taming devices on and off, devices involved in a smart home should be able to mante ami- astronomicals conferring to the probefined pollerss or user requirements (27). The oversae of the adjective coast is frequently faced. Like, some scholars write showt erart radio-fragmency identification (RFID) tars [1]. Even through RHD tags observe with a sampler of above mentioned definitions of smoot devices, these are characteristic properties of each RPTD tag, so adding a RPTD tag label smart is a minuse (due to the lack of enlancement of a basic pendact), it has been observed, that scholars have stantal to see the term erant factories in describing their sponsitions of future manufacturing. Neverlations, there is no spreatment about a close definition of what usnet monto in anguat to comminatoring facility. That's why, the mativation of this poper is to survey a considerable literature and remanding the small factory concerns from a combination of absend literature streams in order to simplify the term and develop a mathem definition that will contribute to the future another this this second

II. SMART FACTORY VARIOUS VESIONS OF ACONCEPT

The term many factory is used by both infrantidy realistics, for these is non-minimum factories for some factory factor are some effectiveness used in we have probabilities for the probability of the probting factory of the set is influent. Factory of the factory (1), and into factory (0), so an itself-gast factory of the factory (1) (inter factory refers as a week-askey (4), as appendix (2)) (as provided (2)).

2.1. A conceptual framework of the Utiquitan Factory

Yosa et al. [15].larre expand a conceptualitanework based on the product design, recyclingard monolacturing, via so called



Open Research Issues, Tools andChallenges in Big Data Analytics

Frof. Frachi N. Deshmukh Prof. Rasika S. Badre Prof. Shruti G. Taley

Althout, a long storage even it instructs of data is guaranteeneds of the long models in hierarchies exceeds and applicationships much as hereiner of transport and data exceeds a storage of the second of the second of the specific herein the exceed is superimediate the storage of the second exceed second vision of their and beginning. The basic pair of this paper is no caption the specific many storage research second vision of the papers in the storage of the specific many storage of the storage of the storage of the specific many storage of the specific many

Egy-over-folg data analytics; Hadeop; Massive data; Structured data: University of Data.

1. INTRODUCTION

Is digital workl, information are generated from different sources and the rapid transition fromdigital technologies has led to growly of leg this. Recycles evolutionary broakling adv in many fields with anthering of large datasets. In general, it refersto the collection of large and difficult dage suggestions 10.0 differir to 00000444 mine and the black of the mana primerit web at donia. processing app lications. These 100 distant date. ÷. structured secondation of need red matratured format inpetalsytus and conside. Formally, it is distinct from5Vs to 4Vs. 3Vs relets to volume, velocity, and rariety, Volume, refers to the large account of fatation are being generated everyday whereas valocity's the rate of growth and how that the data arecollected for being analysis. Variety provide information about the types of data cach asstructured. instructional, semi-structural atz. Thefourth V refers to vencity fast includessecressibility and responsibility. The pring goal off-in data analysis is to method, data of high volume.velocity, variety, and veracity takes various usualized compensational intelligent techniques [11] Generally, Bata warshouses have been used to control the hig dataset. In this case extracting theman intercheige from the accountie higden is observed in the key predicts in the analysis of higden is the need of argunatistic, heterendeticher system issered as with analysis toknowith of the mining and arbitratimolysis. Thereducinger generally eccan when we wish treatments basefulge discovery and demonstration for precision applications. Additionally, through on Hillingin theory of high case will be generalize a basefulge and framitance of difficult pretens in big data, singulf integretoristics, privile traveledge absence incased pristice designs of high results in big data, singulf integretoristics, privile three theories and prisite discovering the firsting of higher. This paper frames or collinges in high around is accidable matchings.

II. OPEN RESEARCH ISSUES IN BIG DATA ANALYTICS

He data analytics and data science arthermaling for research using point in industries and available. Data winners eines et researching highert and konstadige autoritate floer data angleratures of Nas data and data science continuativements ocience, transmission data science anglerature anglerature anglerature anglerature data anglerature anglerature anglerature data anglerature angleranglerature anglerature anglerature anglerature anglerature an

vanchowsing, and signal processing. Main focus adhies survivais to downe open research mores in bights analytics. The research invest perturbing to bights make investigation there big competencies analytic interact of finings (107), cloud competencies respect competency, and quantum competing.

A. LeT for Big Data Analytics

Instant has complified globelinervelucion, for ability or bolowows, outwardsbordnines and an incurbile monitor of personshikusetensis. Correnty, mediates we getting item the art to credit subschild it setsemanyingly via interact and credit latents of TangoloT. Thus, appliance are groupsing for one of the strengt, part link harave with the vederesses. Itemate of Tango is structure the coloriset were resourches for its next coupling-parameter and



Pulling social media twitter data into R

Roshan R. Karwa

Vishal V. Rathi

Rathi Parag P. Kadu

Ankush R. Deshmukh

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Represents Twitter, Data Extraction, Analytics, Social Media

I. INTRODUCTION

Data is foctual thing or entity. When data isorganized, processed or presented in a given context.it is called as Information. For example, Student isData whereas his/her percentage is Information asPercentage will be processed. We reside in a world that's downing in data. Data is not only in Textformat but also in other formats like Image. Video and Geographical Location etc. That is, Data isavailable in Structured as well as in unstructured dataend study of Data is called as Data Science. In otherterminology, Data science is the multidisciplinaryfield that focuses on finding actionable information inlarge, now or structured data sets to identify pattensond uncover other insights. The data science domainlooks for to find out answers for areas that precuidentified and unforeseen. Analysis of this data isvery important. To analyze data, one need toappropriate platform where data will be stored anddata will be retrieved.On Social melia like Facebook, Twitter, Instagromand Whatsapp, users exercise their opinious by memorel Posts, Status, Twents, Stories or messages. It invery important to analyze this data and first stop immalyzing data is Extracting Data from SocialMedia. This paper deals with extraction of data(tweets) of Twitter media using R Programminglanguage. [13]R which is both software and programminglanguage is provides different packages that helps togchieve objective. R is interpreted language that is it is not a Compiled language, there is no need to compile the only written, it will be directly run our concessoir.

II. PLATFORM FOR PULLING DATA

RStudio is a open source integrated developmentensireament (DEE) for R programming language. Itvas developed by JJ Allaire and Chief Scientist arRStudio is Hadley Wickham. It is accessible in wooderines:

 RStadio Desktop: The program is run locallyns a regular desktop application.

 RStudio Server. It allows accessing RStudiousing a webbrowser while it is running on access server.

III. LANGUAGE USED FOR PULLING DATA

Language used for pulling data from Sociel Mohl Veritors is R. Pagnaminaj (1), R. 16. https://withwidi.com/ One you tay communds, involt be exacted directly without compling, One compretens many equivation on R. using R. files Obtainingstwithing image of Particular axis, Resting from fifty-writing arts File, Analyting data by genericity/Regla A. Charn, etc. This of functions can beperformed using approprint produced. R. Palotgen commun. Other Comformations and investigle data. These are accumulating under descreption of the Analytic of the State State State State descreption of the Analytic of the State State State State State descreption of the Analytic of the State State State State State State descreption of the Analytic of the State State State State State descreption of the Analytic of the State State State State State State State State descreption of the Analytic of the State Sta

To install Package, the syntax is

install.packages ("package_name")

The above command gets the respective package fromCRAN Website and then install in your Reavisonment. While installing, it gives message treatest nearest location. Select India (https)// you aren lacka or otherwise.

IV. PACKAGES REQUIRED FOR PULLING DATA

There are 5 Packages required to do the required task, they are as follows: [8]

1) twitteR 2) bitops 3) ROAuth 4) ROuth 5) RJSONIO



A Review on Smart Object Based on IOT

Prof. Rasika S. Hadre

Prof. ShratiG Taley

Frof, Prachi N, Deshmakh

Abstract. Nowadays we live in a world, which a period ago would only he described in the science fiction literature, Bushy day things become smart and both scientists and engineers struggle for developing not only new andianavative devices, but also homes, factories, or even effics. Despite of non-stop development, many of thoseconcepts are still being just a vision of the future, which still desires a lat of effort to became true. This paperreviews the asage of adjective smart in respect to bechnology and with a special emphasis on the smart factorycoaccpt placement among modern studies, Dur to a absence of a conversors of common understanding of thisterns, a unified definition is proposed. The conceptualization will not only refer to different smart factory videncemented in the illumination. but also halt the fundamental characteristics of this emerging susperfacturing concept toward susperfacturing practice. Subsequently, the authors discuss the challenges of the potential smart factory spplications in SMEs, and also propose the fature presents viewpetat in order to further develop the smartlickery conservation.

Ecourth-Samuri Factary; U-Factary;Real-Time Factary;Manufactaring of the Fature;SMEs; adaptive; Stylik;authomation.

L INTRODUCTION

Currently people are surrounded by several things that are called seart. Nearly everyhedy have a smartshone, some people have smart homes [16], which are related to smart grids [1]. South Korea's poveragent in collaboration with the local industry has even launched the project to form the smart city (4). In order to produce those large smart systems, smart devices [21] have been used. The label smart (and interchangeably used intelligent) looks to be abused in many different contexts, because its menning with favours to objects is yet not clearly defined. Smart, in some contexts, refers to an independent device, which usually consists of following: a seasor, and/or an actuator, a microcomputer and a transcriver [34]. Nevertheless, adjective smart is also normally used to characterize an object that was improved by implementation of further features, which introduce multiplatform communication and increase its computational abilities. The intelligence of such device can be exposed by cooperation in a network of other snart devices, which have the ability to check the system state updates and decide whether to act on them or does not act on erstem [24]. What is not experising,

such a network is called a smart network[24].One can also find a reference to smart objects, as items having the ability to store the link related data as well as it may offer access to it. for a human or machine meet/251. There are also smart products, which are equipped with the memory understood as a sort of product. [28]. In the case of houses, quart is commonly used as a synonym of excessively automated [27] 1241. It can also refers to homes with systems for menitoring and controlling the appliances [1]. Now, what is important, a monitoring function could not be limited to turning devices on and off: devices involved in a smart home should be able to operate servi- matonomously conferring to the predefined setterns or mer remirements (27). The oversee of the adjective smart is frequently faced. Like, some scholars write about smart radio-dequency identification (RPHD) tags [3]. Even through RFID tags observe with a number of above mentioned definitions of smart devices, these are characteristic properties of each RJID top, so obling a RJID tag label smart is a missive (due to the lack of enhancement of a basic product). It has been observed, that scholars have started to use the term smart thetories in describing their apparitions of fature manufacturing. Nevertheless, there is no agreement about a clear definition of what unset means in respect to manufacturing facility. That's why, the mativation of this paper is to survey a considenable literature and mmmarize the smart factory concepts from a combination of altered literature streams in order to simplify the term and develop a uniform definition that will contribute to the fature research within this area.

II. SMART FACTORY-VARIOUS VISIONS OF ACONCEPT

The term start factory is used by both inductivity without and stalents, before is no constant-definition for start factory. These are some other transport factory of the starts of difference [1], as not factory [16], or an instillator factory of the three [14]. Start factory refers as a inclusion factory of [17] or a sparsfum [15].

2.1. A conceptual framework of the Ubigailous Factory

Yoon et al. [15],have expand a conceptualfunctionic based on the product design, recyclingand manufacturing, via so called



A review paper on Internet of Things: Applications & Challenges

Shruti G. Taley

Prachi N. Deshmukh

Rasika S. Badre

Abstract Normalays Infernet of Things (IoT) gained a good attention from researchers, since it becomes an essential technology that guarantees a rational human being life, by permitting a communications between objects, machines and each thing at the side of peoples. IoT represents a system that consist things within the globe, and sensors attached to or combined to those things, connected to the Internet via wired and wireless network structure. The InT sensors will use numerous styles of connections like RFID. Wi-Fi, Bluctooth, and ZigBcc, additionally to permitting wide area connectivity using several technologies like GSM, GPRS, 3G, and LTF. InT enabled things can share facts regarding the condition of things and also the encompassing surroundings with individuals, software systems and different machines. By the technology of the IoT, the world can become smart in each aspects, since the IoT can provides a method of smart cities, smart healthcare, smart homes and building, additionally to several necessary applications like smart energy, grid, transportation, waste management and surveillance. In this paper we tend to review a concept of the many IoT applications and challenge that facing the implementation of the loT.

Keywords: IoT Applications, Future Technologies, Smart Cities, Smart Environment, Smart Energy and Grid, Smart Menufacturing, Smart Healthcare,

I. INTRODUCTION

The Internet of Things (167), sometimes referred to as the Internet of Objects, can andify coverhing together with conselves. The Internet has a bening on education communication bosiness, science, growmennet, and homminy [6]. Clendy, the Internet is allongether the most important and provedif accusation is all of Thuman history and currently with the construct of the Internet of things, the Internet becomes forwardle or spaces a smart life in a mode hole (1)-40.

Internet of Things is new technology of the internet accessing. By the internet of Things, objects acknowledge themselves and procure intelligence behavior by creating or enabling relief decisions thinks to for solved fast that large communicate data regarding discovings (15). Thuse objects will access information that has been agaregate by different things, or they'll sugment different services (15). Figure 16, reviews that with the internet of diago, may/diago can able to communicate to the internet of diago. may/diago can able to problem an ablemut hand of opplications, which will incohe problem any services by any atomic to asynce. This lists and problem an ablemut hand of opplications, which will incohe like and fictoriums, security, energy using a monutation communication, security, energy using a monutation.



Figure 1: Internet of things Concept

By developing the 101 technology, twing and deploying product will be a lot of about to implementing nurrerritonment by 2020 [10], in the next future, storage and communications services will be highly president and disablowel individual, machines, sum at diverts, surrounding space and platforms connected with witelesswited scores, MMM devices, RFD may can produce a vertaenally unturhanistic resources interconnected by a dynamic network of antworks [13].

In the IoT, the communication improve will be based on intercopendie protocols, operational in heterogeneous arvironments and platforms [16]. IoT during this context could be a generic term and every our objects will play a likely role to list association to the internet ty making sumat arvironments, where the role of the internet ty making sumat [17].



A Review on Cluster between Internet of things and Social Network

Ms.S.G.Pundkar, Ms.R.S.Badre, Ms.N.A.Deshmukh, Mr.A.U.Chaudhari

abstract. The clustering between Internet of Things and social networks enables the relation of people to the everywhere computing universe. In this framework, the data coming from the situation is provided by the Internet of Things, and the social networks bring the bond to allow human to device communications. This paper explores the novel paradigm for everywhere computing beyond IoT, denoted by Social Internet of Things. Therefore, this paper first addresses a complete view on Social Internet of Things and input perspectives to imagine the real everywhere computing. Later, a literature evaluate is accessible along with the evolutionary the past of IoT research from Intranet of Things to Social Internet of Things, Finally, this paper proposes a basic Social Internet of Things architecture and presents a conversation about enabling technologies, research challenges, and open issues.

Krywords-Internet of Things , Social Internet of Things , Social Networks

I. INTRODUCTION

The position on the edge of a new age with actual ubiquitous computing and communication where many gadgets, such as sensors, RFID tags, and smart electronic devices, surrounding us will be on the association [1], [2]. The gadgets would vanish and interlace themselves into the material of our daily life to work in show to support us in shipping out daily life actions, tasks and rituals in an easy, natural way using information and intelligence, hidden in the network connecting the gadgets. [1], [4]. The IoT vision of pervasively involving many things which is able to interact with the surroundings around us and receive data on its type that was earlier unavailable by just looking at a collection of things [5]. In other words, in earlier Intranet of Things [5], [6], which was a local network of a collection of things such as wireless sensor networks (WSNs), machine-to-machine (M2M), and smart homes, can only take out regional data containing particular content from the things, IoT can present large scale, inclusive, and historical data by collaborating between apart intranets of things even if they have regarding devices, local announcement technologies, and consumption goals. Furthermore, IoT enables the making and composition of new services and applications, offering to personality users a new ecology system where special intranets of things can combine. In Internet of things, as revealed over, an individual user connects to the others via heritage networks; on the other hand, sets of things work together with each other via the Internet for offering information to stylish services and applications, while each user uses them. The IoT follows two interaction paradigms: 1) person-to-person and 2) object-toobject, and then person simply make use of information from object as an elderly shaped client-server communication model [7].[8]. In this way the IoT so far does not agree to a right connection between person and object, i.e., human-tothing, for real everywhere computing [6]. In order to practically mix the ubiquitous computing in our outlook daily life with high quality, we need to progress the connection of all the associations between users and object, and to enhance the availability of computational control via sets of things surrounding us. This logical pattern can be realized from side to side exhibiting features from humans social network and adopts them for the suggested universal social network of all entities. The feature set can include the interactivity idea. profiling system, advice, and mash up of services. This social network assists in the rising of new communities motivated by increasing social, inborn from traditional social networks, could give the opportunity to realize customer requirements, and thus they also recover the accessibility based on belief in each group of people. In fact, growing the accessibility of processing power would be accompanied by diminishing the visibility [1], [9]. Thus, this novel dangerous vision with better publicity is denoted by SloT.

2. SIoT Architecture

To review our idea toward a flature-driven SIoT, we consider the following elements to be part of the architecture:

- 1) Actors
- 2) An intelligent system
- 3) An interface and
- 4) Internet.

Next, we discuss about each element in the architecture in detail (see Fig. 1).



Open Research Issues, Tools andChallenges in Big Data Analytics

Prof. Prachi N. Deshmukh Prof. Rasika S. Badre Prof. Shruti G. Taley

Advoird a large storage zero of transition of data is personnel occil, dary times andrens information systems and digitalitetosologies stork ex hierores of Things and cloud completing, buyle of these number data regimes. In inflations, in the storage of the storage of the storage of the storage transition of the storage of the storage of the storage intervents. The best point of this point areas of storage provides into systems in a current areas of storage and possible interprised. The storage of the storage of possible interprised in the Asia result in a storage of the possible interprised on the Asia results and the storage of possible interprised and the Asia results and the storage of possible interprised and the Asia results and the storage of possible interprised and the Asia results and the storage of the the characteristic and the storage of the storage. Additionally, if a the the characteristic and core research incomes.

Reyword's Big data analytics; Hadoop; Massire data; Structured data; Unstructured Data,

I. INTRODUCTION

In digital world, information are generated from different sources and the rapid transition fromdigital technologies has led to growth of big data. Itorovides evolutionary breakthroughs in muny fields with gathering of large datasets. In general, it refersto the collection of large and difficult datasetswhich 2010 difficult to moves. using establish old atobase. management tools or dana report interactions These are obtainable in. sinctured semi-structured, and unstructured formed insetabytes and outside. Formally, it is distinct from3Vs to 4Vs. 3Vs refers to volume, velocity, andvariety, Volume refers to the large amount of datathat are being generated everyday whereas velocity's the rate of growth and how fast the data arecollected for being analysis. Variety provide information about the types of data such asstructured, unstructured, semi-structured etc. Thefourth V refers to vencity that includesaccessibility and responsibility. The prime goal ofbig data analysis is to method data of high volume velocity, variety, and verscity using various usualand computational intelligent techniques [11].Generally, Data warehouses have been used to control the hig dataset. In this

care entraining themask knowledge from the accurable high data is information into the key problem in the multyhe oblight data is the need of regulation hereocataribate a systems as well as with analysis toolongical and multising and entrational multym. Theredultrapers parently occurs when we wish interactive knowledge docovery and discussivity functions. Additionally, the description of the state of the entrained state of the state of the state of the state interpretations, per hotter knowledge adheres interaction inducering the fordings of highest. This paper fractions and discussions the state is a state of the state of the state of the entrained in the state of the state discussions the state of the state o

II. OPEN RESEARCH ISSUES IN BIG DATA ANALYTICS

Big data analytics and data science archeoming the restarch main point in industries andreadernia. Data science ains at neuerching bigdota and kanwledge extraction floura data.Applications of big data and data sciences containinformation science, uncertainy modeling.neuercrain data analysis, mechine learning.nativitied learning, pettern recognition, data

warehousing and signal processing Main focus officis section is to discuss open research issues in bigdata analytics. The research issues pertaining to bigdata analysis are classify into three big categoriesnamely interact of things (IoT), cloud composing/bio inspired comparing, and quantum computing.

A. IoT for Big Duta Analytics

Internet has simplified glabulationerelation, the ability or businews, collared-worksim and an accelled a standar of prostatiohanesteristics. Currently, machines are gritting into the act to control standschaftle anstanoungedgets via internet and crasta batternet of Thingsfoh7. Thus, papilances was appopriate the use officie internet, just like humans with the webfetwores, internet of Things in attacking the nocketon resent presenders for its used condekenpotentialies and



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A review paper on Internet of Things: Applications & Challenges

Shruti G. Taley

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Abstract Newadays Internet of Things (IoT) gained a good attention from researchers, since it becomes an essential technology that guarantees a rational human being life, by permitting a communications between objects, machines, and each thing at the side of peoples. IoT represents a system that consist things within the globe, and sensors attached to or combined to those things, connected to the Internet via wired and wireless network structure. The InT sensors will use numerous styles of connections like RF1D. Wi-Fi, Bluctooth, and ZigBee, additionally to permitting wide area connectivity using several technologies like GSM, GPR5, 3G, and I.TF. InT enabled things can share facts regarding the condition of things and also the encomposing surroundings with individuals, software systems and different machines. By the technology of the InT, the world can become smart in each aspects, since the IaT can provides a method of smart cities, smart healthcare, smart homes and building, additionally to several accessary applications like smort energy, grid, transpectation, waste management and surveillance. In this paper we tend to review a concept of the many InT applications and challenge that facing the implementation of the loT.

Keywards: InT Applications, Patture Technologies, Smart Cities, Smart Environment, Smart Energy and Grid, Smart Monufacturing, Smart Elevablecare.

I. INTRODUCTION

The Internet of Things (IdT), sometimes reformed to as the Internet of Objects, can modify everything together with controls. The Internet has a betraing on education, communication, business, science, government, and lammaily [6] Clendy, the Internet is altogether the most important and percedit excessions in all of human history and cancerity with the construct of the Internet of things, the Internet becomes four-theorem a usual file in such faces (1-d).

Internet of Things is new technology of the internet accessing. By the internet of Things, objects admontalige themselves and poweure intelligence behavior by creating, or enabling. related decisions lankin to the extral fact that they'll communicate desire regarding thermolytical [15]. Thus objects will access information that has been sugregate by different integes, or they'll segment different services [15]. Figure 1 proving any service by any astronometry form anyphace to communicate to the internet of things, anything's can able to assume the service by any astronometry assignment of provide any services by any astronometry which will involve nontrivide any astronometry and anytes of services. Services blace methods and the smart hance, to provide service all services blace methods on services, service, astronometry blace methods on services and transmission. (1), 123.



Figure 1: Internet of things Concept

By developing the ioT inducelogy, testing and deploying product will be a for of about to implaneously assure communication services will be highly persistent and distillated individuals, andatuse, start objects assureading space and platforms consecuted with wireleas/wind some ADM devices, RFD has can produce a contrastly induced and platform consecution by a dynamic network of networks [13].

In the IoT, the communication language will be based on interspectable protocols, approximational in heterogeneous corrientments and plefforms [16]. IoT during this context could be a generic term and every one objects will play a looply role to disc secuciation to the internet by making smart corrientments, where the role of the internet by making sum [17].



Open Research Issues, Tools andChallenges in Big Data Analytics

Prof. Prachi N. Deshmukh Prof. Rasika S. Badre Prof. Shrufi G. Taley

Ashood Along storage zero of training of data is generated orses day 2 mouth matching minimum spectrum and digital/helinologies such as however of Things and should complete heads and an external storage of the storage of minimum spectrum. The second second second second second improvements. The should find however is explored and provides to any storage of the storage of the provides inspired in RL as a result matching mouthers about the storage of the storage of the storage of photons in a system in RL as a result in attacting problem about the storage of the storage of the storage of photons in a system in RL as a result in attacting problem about the storage of the sto

Arywords Big data analytics; Hadoop; Massive data; Structured data; Untractured Data.

I. INTRODUCTION

In divital world, information are separated from different sources and the rapid transition fromdigital technologies has led to scowth of his data. Incovides explationary breakluoughs in many fields with gathering of large datasets. In general, it refersto the collection of large and difficult datasetswhich 2010 difficult to teccess UNITAT establisheddatabase management tools or A processing applications. These are obtainable sinuctured semi-structured and unstructured format inpetabytes and outside. Formally, it is distinct from3Vs to 4Vs. 3Vs refers to volume, velocity, andvariety, Volume refers to the large amount of datathat are being generated everyday whereas velocityis the rate of growth and how fast the data arecollected for being analysis. Variety provideinformation about the types of data such asstructured, unstructured, semi-structured etc. Thefourth V refers to veracity that includesaccessibility and responsibility. The prime goal ofbig data analysis is to method data of high volume, velocity, variety, and verscity using various usualand computational intelligent techniques [11].Generally, Data warehouses have been used to control the hig dataset. In this

core entrating thermat knowledge from the accorder high data is discussion. In the proportion in the manyles of data data is the need of regarithment between them have a set of a with an with analysis toolough a data maning and emittadimanyless. These challenges is presently occur when we wish forwards and endowed with discussion differently and forwards and different presents in the data. Simplefor interpretention, and theorem and the data simplefor interpretention, present different presents in the data interpretent different presents in the data. Simplefor interpretention, the better knowledge attention and guide the data of a comparing models made intercorded indiscussioning the findings of highests. This paper frequence on duffrequent high data is multiple terrelevation.

II. OPEN RESEARCH ISSUES IN BIG DATA ANALYTICS

Big data analytics and data science serbecoming the restarch main point in industries and scatterinis. Data science aims at researching bigdata and lazowledge estraction from data.Applications of big data and data science containinformation science, uncertainty modeling neutration data analysis, mechine learning, nettern recognition, data

worknowing, and signal processing. Moin focus offlis section is to discuss open research issues in bigdata analytics. The research issues permissing to higdata analysis are classify into three hig entraprisonancely internet of things (foT), cloud composing/bio inspired comparing, and question comprise.

A. IoT for Big Data Analytics

Interact has simplified globalistercelution, the shilly or businesses, cultural-evolutions and an anxelfile number of prostatil-haracteristics. Currently, machines are getting into the at to certain standouble notanousangalers via internet and crasta Interact of ThingoToT. Thus, appliances are appropriate the user officient structure. This internet supporting the user offic interact, just like Internet with the vebforwsen, internet of Things is attacking the us/kere/ renet researchers for its user couplessopertunities and



SECURITY IN ANDROID OS

Prof. Sumedh P. Ingaic

Prof. Anklt R.Mone

Prof. Aditys O. Sabie

Abstract. Tadax's Smortphenes are usual personal computers with added services, because of it we say that next penerolicas, of operatingsystem will be on these handheld Smortphones and the OS of these Smartphones are similar to windows, 105 and andraid coschowing us the way to the future. Andraid (35 has already gained significant popularity over its complexparts and in terms gainedmuch of market share. One of the symon behind this result and need important leatury of Android is that it is norm source and hydroger leignafty to paymer could easily develop facir own applications and publish them freely. This openants of andraidbrings like developsers and users a wide range of correctioner but leads to some gaps in security. One of the major facest addatesid users is Malwate infection via Andraid applications which is targeting some loophales in the architecture mainly on thrend-mers part. In this paper we presents the current state of Andraid CS its scentity mechanisms and their itsuitations.

Epwards-Andreid, Andreid Scentty, Architecture, Threats, Malware, Smartphone.

I. INTRODUCTION

Android O5 is a modern mabile platfree: O5 that wasdesigned to be truly open. In the OS Android applicationsmake use of advanced hardware and software, as well as localand served data exposed through the platform to bringingevotion and value to consumers [1]. Anderid wasdeveloped by the Open Hughst Allience (which was visiblyfed by Geogle), is OS hased on Limm platform [2]. It is appre widely used open source opensting system for mobiledevices which provides a have OS, an application middlewarelayer, a Java voftware development kit (SDK) and a collection of system applications The widespread usage of Stractphone's and with its increming fractionalities to most newscontrements has made both infustry and common consumerste rely on these handheld devices for their daily life protine. The most striking feature of Android OS is its openness Because of which mybody can publish their applicationsfloody on the android market. This openness brings langenumbers of developers which use these platferm but with this comes comes some risk in blues that user is may dovuloadand use a melicious software made heckets cousing herea totheir privacy. Then we need to study of the Society-Mechanisms for Android and on the way make it simple nature understandable making the user And make the end-usersware of areas where he has to be careful.

II. ANDROID OVERVIEW

The Audord operating system logan in release with Audord heat in Neurands 2019. It was disigned with imaging in wind, with both the developer can omit develop its idea into and application and near is given more withhing over applications was. The first complete vasion Audord 10 van relaxed an Approxime 2008. Andreid is turker angring development by Gaugina and the Open-Handler Alisace (DMAA) is a concertain of 34 firms, and has seen a narmber of sphere is its has operating system size its initial coloses. Since Aug 2009, Andreid variable how been derelaying methylogication and star to turk is should be an approximate over tura to turk and be been.

Capcake (1.5)

Soff-keyboard with text-production, Record/watch videosilitamonth A2DP, AVRCP support

Donet (1.6)

Turn-by-turn navigation , Gesture financework

Échair (2.0-2.1)

HTML, Microsoft Exchange support, Bluetoeth 2.1.Digital.com, Live Wallpopers, Updated UT

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Speed improvements, III implementation, Applicationsinstallation to the expandable memory, Liplead file support indie browser, USD Tethening, Animated GIT

Gingerbread (2.3-2.3.7)

Updated UI, Improved copylpaste, Improved keyboard case of no. http://opto.com/analysis. http://www.intervellence.com/analysis/ import, Native VolP/SIP support, Video callsappert, Social networking features.

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Ice Cream Sandwich (4.8-4.8.4)



SECURITY IN ANDROID OS

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Reprorts-Android, Android Security, Architecture, Threats, Malware, Smartphone.

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it simple undesce understandable making the user And anake the end-usersware of areas where he has to be careful.

II. ANDROID OVERVIEW

The Audioid operating system logan its release with Audioid brain Newenher 2010: It was Asigned with the pipipi in mich with both the developers and the end week, because of which the for the developer on analy develop in side, into and application and user is given sume visibility over applications with. The first comparison was an advance of the second systems 2008. Archivel is more analysis, development by apprendime 2008. Archivel is more analysis, development by operating system, states its minimum control and a second or 34 firsts, and are its minimum control. States August 2009. Archivel average the end end system and a constructionary, theread code sume with significant first imprevenant over time to time is informed before.

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Donnt (1.6)

Turn-by-turn navigation . Gesture framework

Éclair (2.0-2.1)

HTML, Microsoft Exchange support, Bluetooth 2.1.Digitalzoom, Live Wallsapers, Updated UI

Froyo (2.2-2.2.3)

Speed improvements, JIT implementation, Applicationsinstallation to the expandable memory, Uplead file support in the boowser, USB Tethering, Animated GIF

Gingerbread (2.3-2.3.7)

Updated UI, Improved copy/paste, Improved keyboard cascof are, Improved power management, Near FieldCommunication support, Native VoIPNEP support, Video callsuppert, Social networking features.

Honeycomb (3.0-3.2.6)

Multi core support, Media/Picture transport protocol,Updated 3D UL Private browsing, Better tablet support, HTTP Live streaming, System-wide Clipbeard.

Ice Cream Sandwich (4.0-4.0.4)



SECURITY IN ANDROID OS

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distract. Today's Smartphones are small personal computers. with added services, because of it we say that next generations of operatingsystem will be on these handheid Smartphones and the Of af these Smortphanes are similar to windows, 106 and android arcshowing us the way to the fature. Android OS has already gained significant popularity over its counterparts and in terms gained mark of murket share. One of the reason behind this revait and most important feature of Android is that it is open source andDeveloper friendly so anyone could easily develop their own applications and publish them freely. This openness of androidbrings the developers and more a wide range of convenience but leads to some gaps in security. One of the major threat of hadroid users is Malware infection via Android Applications which is targeting users laupholes in the architecture mainly on theend users part, in this paper we presents the current state of Android OS its security mechanisms and their limitations.

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II. ANDROID OVERVIEW

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DIABETIC DETECTION 2 RETINOPATHY INFECTION CLASSIFICATION USING ADVANCE GENETIC ALGORITHM

S. M. Deshmukh¹, M.V. Tiwari², Juee Tatte³

1. INTRODUCTION:

Diabetic Retinopathy is a disease of the retina resulting from the effects of diabetes on the retinal blood vessels. It is the leading cause of blindness in those of ages between 20 & 60. There are 3 main types of diabetic retinopathy:

1.1 Background Diabetic Retinopathy

Diabetic retinopathy is commonly seen in people who have been diabetic for a long time. The patient's vision is normal and his retinal blood vessels are mildly affected.

1.2 Diabetic Maculopathy

Fluid and protein may be leaked from the retina's blood vessels as a result of diabetes. This causes swelling of the retina. Vision will become blurred if the swelling involves the macula (centre of the retina).

1.3 Proliferative Diabetic Retinopathy

The retinal blood vessels are blocked, leading to the formation of new vessels which are abnormal and fragile. This may lead to haemorrhage (rupture of the vessels) in the eyes and cause a sudden vision loss.

In more advanced cases, scar tissue develops. The scarring will pull and distort the retina. This may cause the retinal to detach, resulting in a more severe loss of vision.

Types Of Available Treatments:

A. Laser Treatment

In the case of diabetic maculopathy, laser treatment to the points of leakage can decrease swelling and stabilize the vision. In the early stages of proliferative diabetic retinopathy, more extensive laser treatment can be done to slow down the formation of abnormal blood vessels, thereby preventing the development of more severe complications. Laser treatment has its risks. Some patients may experience a decrease in vision to the sides (peripheral vision). In others, night and colour vision may be affected.

B. Surgery

Surgery such as vitrectomy may be required in more severe cases where the disease continues worsening (persistent bleeding the eye/retinal detachment) despite the laser treatment.

Injection of Medication Inside The Eyes Medications such as Triamcinolone and anti VEGF can be injected inside the eye to help maintain/ improve vision in some patients with diabetic retinopathy.

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Quality Determination and Grading of Tomatoes using Raspberry Pi

Mr. Swapnil M. Wasule

M.E. Student, Department of Electronics & Telecommunication, S.G.B. Amravati, University Amravati, India¹ Swapnilms42@gmail.com Prof. Dr. S. M. Deshmukh^{*} HOD & Professor:Department of Electronics & Telecommunication, S.G.B. Amravati University Amravati, India²

Attract—In fadia cultivation of formatoes is carried out by traditional methods and techniques. Today tremendous improvement in field of agriculture technologies and products can be seen. The tomatoes affect the evenall production drastically. Image processing technique can be key technique for finding good qualities of tomatoes and grading. This work must be study different topses of agrithmus used for quality grading and sorting of final from the sequire image. In previous years several topses of techniques the good quality finits. A sample system can be imaginemented using Rapperty pi with component vision technology and image processing algorithms.

Keywords-Raspherry Pi 3, USB Camera. Haar classifier. Contour, Conveyor system filtering process, masking, color detection.

I. INTRODUCTION

India is well known for its agricultural economy. India ranks second worldwide in farm output. More than sixty percent of people depend on farming business directly or indirectly. Agriculture product contributes significantly in India's gross domestic product. Slow agricultural growth is main concern for Indian farmers. Traditional agricultural practices are neither economically nor environmentally suitable for agriculture development. There is requirement of precise and efficient technology for agricultural development. Agriculture quality production highly affected due to various environmental factors and false practices of farmers. Most of the quality issue occur on plant, goods, fruits etc. Hence area of interest is to find quality of goods, fruits, etc. In order to improving fruits quality and production efficiency, reduce labor intensity, it is necessary to research nondestructive automatic detection technology. Fruit nondestructive detection is the process of detecting fruits inside and outside quality without any damage, using some detecting technology to make evaluation according some standard rules. Nowadays, the quality of fruit shape, default, color and size and so on can not evaluated on line by the traditional methods. With the development of image processing technology and computer software and hardware, it becomes more attractive to detect fruits quality by using vision detecting technology. At present, most existing fruit quality detecting and grading system have the disadvantage of low efficiency, low speed of grading, high cost and complexity. So it is significant to develop high speed and low cost fruit size detecting and grading system.Image processing can give solution to find quality on the basis of their visual symptoms. Decide the quality of tomato on shape,

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size, color and texture grading by human eyes often leads to error due to visual stress is not accurate. A vision machine to replace human eyes can solve this weakness since a machine vill not prompt errors due to stress. Human vision has limited ability in differentiating similar colors like pure green (100% preen) with orange (90% orange), light red (60-90% red) with red color (>90% red). Human perception towards shape, size, color and texture is subjective and varies among different peoples. A same fruit may appear as light green for first human but pure green for second human. This leads to inaccuracy of the judgment for tomato maturity. Color grading is a main step in this system design for processing of fruits that directly affects profit, because the products quality is mainly associated with their color. The existing color grading systems use a set of color separating parameters to determine the color quality. In this Paper 100% Red, 100% Orange color tomatoes is fully mature and ready to consume and 100% Green, 50% Green color tomatoes is premature and ready to transport. The proposed automated classification and grading 'system is designed to combine five processes such as Image Acquisition, Masking, Contour, Image Enhancement, and Color Detection. The entire system is designed over RASPBERRY PI software to inspect the shape, size, color and texture of the fruit. Here grading can be categories into four ways Red, Orange, Green, turning to Green. Work in this paper considered tomatoes as fruits having different shape, size, color and texture for finding quality and grading. In this paper simple and effective method will be used for evaluating maturity level of tomatoes. The visual features can be extracted from tomatoes images and classify them according to their feature using image processing techniques.

Quality Analysis and Grading of Scybean using Image Processing and Neural Network



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Quality Analysis and Grading of Soybean using Image Processing and Neural Network

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Quality Analysis and Grading of Soybean using Image Processing and Neural Network

Mr. Vsibhav S. Yende¹, Prof. S.V. Pattalwar¹, Dr. S.M. Deshmukh¹ ¹M.E. Diginai Electronics PRMT&R Bachwen, ⁴Associate Professor PRMT&R Bachwen, SGBAU ⁶Professor PRMT&R Bachwen, SGBAU

Abstract: The use of good quality seed is very important for the better production of a good quality crey and is essential for export in markers. Quality exacts is very important in food industry because baied on quality of food products are classified and graded into different prodes. Solven is primerily graded based on its grain shape, colony, tae and learner. This paper attempts to automate the grading process by axing image processing and machine vision techniques. Soybawn's grade in affected by damaging, decolourization, infection by invects, immunutity and shriveir, spinning, breaking, cracks, inorganke and argunic foring matter present in the sample. One of the objectives of this paper is to study the effect of these parameters on shape, colour, size and texane of the soybawn image. In the present stybeer-handling scenerio, type and quality are stored in the system. The system for quality determination of food grains. This paper is automate the system for grading of soybean by extracting marphological features as attributes for classification and may processing techniques und artificial neural features as attributes for classification and may processing techniques and artificial neural features as attributes for classification and may force.

Keywords: ANN, Grading, Image Processing, Soybean, Morphological, Seed features

L INTRODUCTION

Soybean contributes significantly to the Indian edible oil pool. Currently soybean contributes 43 % to the total enhereds and 25% to the total enhereds in the control. Currently, India's rank is fourful in respect to production of soybean in the work. The couple part without here is a source of the total enhered in the country. Currently, India's rank is fourful in respect to production of soybean in the work. The couple part without the foreign enclosing (Base 2000) and Indias in 2012 (13) by way of soya meel expost. Soybean has largely been responsible in increasing former's economic status in many pockets of the country. It usually earns higher increase to the fermers owing to the large export market for soybean de-olde state in contrast production of Soybean in India's an earns at a CAGR of 80 per cent from 687 million tomes in 2004-015 1568 million tomes in 2004-010. On the other hand Soybean meel exposure has a largely been has been de-olde state at elever years from 1365 thousand million tomes in 2004-04 to 4225. "Designed million tomes in 2014-15. Therefore to increasing demund it is impressive to increase the production 4.00 (Soybean in India's and 2.000 exposure for the box holderseines in a Mathies Philede built of Soybean in the source of Soybean in the source of the source of Soybean in the source of the source

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DETECTION AND CLASSIFICATION OF DISEASES ON RICE AND SUGARCANE USING COMPUTER VISION TECHNIQUE

Sevakram Tanaji Kumbhare, ³Mrs, Madhavi S Jashi, ³Dr, D T Jagale, ⁴Mrs, A P Deshmukh

¹M.E. Research Scholar, ¹Professor, ¹Professor, ⁴Asst. Professor ¹ Electronics & Tele. Engg. Department, ¹Prof. BMITAR, Badsera, India

Abinwar: Rice and Sugarcane are one of the most important crops in Malazashtra. In the agriculture field, disease sharifferation from the explining and crop protection is one of the interesting researd area. Digital Image Processing can be upplied for Dessate thereares that and distinfations. This applied proteins a provide system for detection and classification of the signal classificatio

exTerms - Computer Vision Technique, disease identification and classification, GLCM, Image processing, rice and

L INTRODUCTION

In India, main source of the mesone for major population is Agriculture. In India, Almost 70 % of the gopulation depends on Brining Almost SB precent of the manal peeple depend on faming. Ret: and supported are dot imported models in India. Supported is one of the important cache were provided and supported the support of the SP were production in Advance of a support of the s

Probability of occurrence of diseases on any plant is unpredictable. However, a continuous menitoring may prevent disease infection. On any plant, diseases are musicy cancel by batteria, fung, and vinnes. Image processing operations on into the said on external appearance of atteriot plants. However, the symptoms of diseases are different plants. Each disease has its own unique thereare the plants of the said of the said of the said of the said state and the said of the said the said the said the different tables, while same have different cloches by the said states. The said state are said to be able to decision for selection of perturbative said the said states are said the said to be able to be able to associate the origination of advantic decision and classification. This project attempts to apply concepts of lenge Processing to said the origination and classification of advantication of the and supraces cross.

II. LITERATURE REVIEW

Different approaches of Rice and Sugarcane leaf diseases have been proposed by various authors or researchers, described

Derow.

Argo M S, Azjali K, et al. [3] proposed as idea of detecting plant diseases using image processing. Image processing toublex of MATLAB is used for measuing affected area of disease and to determine the difference in the colour of the disease affected area of diseases and to determine the difference in the colour of the disease affected area of the disease statistical excession detection area of the disease and the determine the difference in the colour of the disease affected area. This reduces an important study of monitoring of firms crops at vary early stage itself to detect the symptom of diseases appear on plant these. Formever for early detection of diseases in rise corresponds to vary any emptore sup opposed. Abube target rise receips owing to their diseases appear on plant their detective uses in the Indian subcontinent and developed a user-friendly 10T reference architecture to provide on-field disease interview on the monitor using cland analytics (4).

Raketh Chaware, Rohit Karpe, et al. [5] presented the cricking handpoint of different plants disease regremention techniques. This growide description of leff disease detection using image processing that can recepting problem is cropping in million of the cricking the state proposed the rower and approximate the state of the state proposed the rower and the rower and the state of the million techniques. The provide the rower and th



International Journal for Research in Applied Science & Engineering Technology (IJRASET) JSSV 322-9653, IC Value: 45.98.53 (Input France 687) Values 7 Novel IX 407 2019 - Available at vows: granter com

Detection and Classification of Diseases on Rice and Sugarcane: A Review

Mr Sevakram T Kumbhare', Prof. Mrs. M. S. Joshi² ¹²Electronics & Tele. Engg. Department, Prof. RMIT&R. Badipero, SGB Amrovati University, India.

Abstract: Rice and Sugarcane are one of the most important crops in Maharashtra. In the agriculture field, disease identification from the crops images and crop protection is one of the interesting research areas. Digital Image Processing can be applied for Disease identification and cleasification. This project presents a prototype system for detection and cleasification of rice and sugarcane diseases bared on the images of infected plants. Images of the infected rice and sugarcane plants are suptured by digital camora. Digital image processing is used to detect infected parts of the plants. Analyzing the infected part, the type of disease is detected.

Keywords: Image processing, disease identification and classification, rice and sugarcane disease, Computer Vision Technique

I. INTRODUCTION

Plant diseases are one of the causes in the reduction of quality and quantity of agriculture crops. Reduction in both aspects can directly affect the overall production of the crop in a country. The main problem is a lack of continuous monitoring of the plants. Generally, diseases can occur on any plant at any time. However, a continuous monitoring may prevent disease infection. The main approach adopted in practice for detection and identification of plant diseases is maded eye observation through experts. The decision making capability of an expert also depends on hisher physical condition, such as fargue and eye sight, work pressure, climate etc. So this method is time consuming and less efficient.

On any plant, diseases are mainly caused by harterin. Impj, and vinues. Image processing operations can be applied on external appearances of infected plants. However, the symptoms of diseases are different for different plants. Each disease has its own image characteristics. Diseases differ in shape, size, and colour of disease symptoms. Some of the diseases might have the same colour, but different shapes, while some have different colours but same shapes. Some of the diseases might have the same colour, but different shapes, while some have different colours but same shapes. Some of the reasents or apply concepts of mage Processing to solve the problem of automatic detection and classification of diseases of the rice and suggestance roop.

IL LITERATURE REVIEW

Different approaches of Rice and Sugarane leaf diseases have been proposed by various authors or researchers, described below. R. Rajmohan, M. Pajmy, R. Rajen, D. Rajuh Ramun and U. Pahu [1] proposed a Sensor based Mobile App framework for accuracy agrinushiness which furnishes agriculturists with valuable information about the paddy yield and its condition. The framework intends to make development more productive as the agriculturist can settle on better educated choices and subsequently spare time and assets.

Rakesh Chaware, Rohit Karpe, Prithvi Pakhle and Prof. Smith Dexii [2] presented the critical analysis of different plants disease segmentation techniques. This provide description of leaf disease detection using image processing that can recognize problems in crops from images, based on color, texture and shape to automatically detect diseases and give the fast and accurate solutions to the farmer.

T: Gayahin Devi, P. Nechamegam [3] proposed the novel autoruted rice leaf disease identification and detection system using the improved support vector machine with the radial basis areand networks. Initially the captured pody images are transformed into the gray scale image and the noise present in the image is eliminated with the help of the image clipping, cropping and smoothing process. A diseased, the mass present is not access to perform by applying the histogram equalization method and the particular affected region is segmented with the help of the Osu's thresholding with 4-means clustering process. From the segmented engous, different features are extracted using scale invariant method and the features are classified with the help of the support vector machine trained reliad basis neural network.

Harshadkumar B. Prajapat, Jrtesh P. Shah and Vipul K. Dabh [4] proposed a prototyse system for detection and classification of rice diseases based on the images of infected rice plants. This prototype system is developed after detailed experimental analysis of various techniques used in image processing operations. Author considered three rice plant diseases namely Bacterial Leaf Bight,

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Optical Character Recognition (OCR) for Printed Devnagari Script Using Artificial Neural Network

Author 1: Aparta Pabl Government Polytecnic, Ani District Wardha, Maharashtra Author 2: Prof. M. D. Ingole Prof. Ram Meghe Institute of Technology,Badnera District Amaravali. Maharashtra

ABSTRACT=There are about 300 million people in India who speak. Hind and write Dewnapari scriet. Research in Ophcar Character Recognison (OCR) is popular for its application potential in banks, pest efficas, delenae erganizatione and literry automation etc. However most of the OCR systems are variable for European tests. In this paper, we have proposed a Technique for OCIR System for different five fonts and sizes of printed Dewnaparison; using Antificial Neural Network. The recognition rate of the proposed OCR system with the image document of Dewnapari Sorigi has been found to be received.

Index Term- OCR, Preprocessing, Segmentation. Feature Extraction, Classification, ANN, Skew Detection and Correction

1.INTRODUCTION

With the advent of devlopment in computer power machine simulation of human reading become important topic of research Optical Character Recognition is a phenomenon by which we can convert printed document or scanned page to ASCII character or some other standard code like unicode that can be recognized by computer. Lot of research is done in developed countries But still there is need to carry out research in indian language there are two approaches to recognize isolated devnagri words, 4 first is to segment the word into its character part and individually recognize the character. The major drawbock of this approach is Devnagari script word contains mantras shirorekha conjuct characters, modifiers and lack of benchmark database to train classifier . The second scheme is to recognize word in its entirety the recognizer are complex if it is general purpose and simpler if it is for specific lexion. The document image itself can be either machine printed or handwritten, or the combination of two. The speed of input operation is improved and decrease some possible human errors by using computer system equipped with such an OCR system. Recognition of printed characters is itself a challenging problem since there is a variation of the same character due to change of fonts or introduction of different types of noises. If preprocessing, feature extraction and recognition are not robust then recognition task difficult due to difference in font and sizes There may be noise pixels that are introduced due to scanning of the image. Besides, same font and size may also have bold face character as well as normal one. Thus, width of the stroke is also a factor that affects recognition. Therefore, a good character recognition approach must eliminate the noise after reading binary

image data, smooth the image for better recognition, extract features efficiently, train the system and classify patterns. Till now there is no complete OCR for printed Demograf Script which gives 10% success rate.

In this paper, we present a scheme to develop complete QCR system for different live fonts and sizes of Devnagari diardictri se that we can use this system in Banking and corporate sectors. Steps of the OCR have being implemented by us in the system like preprocessing segmentation, foture extraction and classification. In preprocessing step it is expected to include noise removal, skew detection fac currection. After finding out the feature of the segmented characters artificial neural network (ANNS) [1]. [3] and [4] will be used for diastification purpose. Efforts have been made to improve the performance of character recognition using artificial neural network techniques. The proposed OCR system shall be capable of accepting document images from a file or from a scanner directly. Recognized characters can also be displayed and edited.

2. DESIGN OF OCR

Various approaches used for the design of OCR systems are discussed below:

Matrix Matching: Matrix Matching converts each character into a pattern within a matrix, and then compares the pattern with an index of known characters. Its recognition is strongest on monotype and uniform single column pages.

Fuzzy Logic: Fuzzy logic is a many-valued logic in which truth value of variable may be any number between 0 and Linclusive, between conventional evaluations like

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Smart Underground Drainage Water Management System - A Review

P. R. Ramteke¹, V. U. Kale², C. N.Deshmukh³

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Abstract-- Underground drainage water management system and the manholes in cities of our country India is one of the major issues, due to its poor maintenance. The drainage water that contains sewage and other domestic and industrial waste water is overflowed on the roads causing water logging and sometimes gets mixed up in the drinking water which causes health hazards to common people. To overcome this issue a model called Wireless sensor network based smart underground drainage water and safe multiple manholes management system is proposed. This proposed system will monitor various parameters related to various fluids in the underground drainage system such as the water level and gas level in the drainage system, manholes conditions, locating the underground blockage and removing the same in the drainage system and the measured values will be stored in the cloud storage. Then the stored data will be analysed and conditions of underground drainage water system and manholes will be sent to nearby corporation office as short message using IoT module.

Keywords- Iot(Internet of Things), WSN(Wireless sensory network), GSM(Global System for mobile Communication), CPU(Central processing Unit), Zigbee, Wi-Fi(Wireless Fidelity), GPRS(General Packet Radio Service), UDS(Underground Drainage System), RTC(Real Time Control)

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INTRODUCTION

In India most of the cities has underground drainage system are maintained by Municipal Corporation to make clean healthy surroundings and hence environment. Often due to poor maintenance of the underground drainage system, the water in the drainage system gets mixed up with the pure water and consumption of this polluted water leads to water bome diseases. Due to sudden changes in the atmosphere and variations in the climate during different seasons the drainage gets blocked or water logged, making environment unhealthy and disturbs the healthy routine of common people. To overcome all these issues in the underground drainage system and inform the municipal corporation about the condition of the underground drainage system by sending short messages through internet, so that the officials can take the necessary action to repair the drainage system and the manholes. Also various gases are formed inside the drainage system due to domestic and industrial waste will also be detected using the different gas sensor so that we can avoid explosion due to pressure inside the drainage system. If the drainage system uanhole lid is opened for long hours then by using tilt angle sensor modules we can detect the opening of the lid over the samholes and inform the municipal corporation officials to take proper action on it. Thus, main aim is to monitor the Ads by Google

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OBSERVATION OF SOLAR PHOTOVOLTAIC ENERGY HARVESTING SYSTEM

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ABSTRACT:All over the world, the growth in electric power demand has slowed down and dropped to 0.7% per year [I]. Capacity addition to the grid has kept up with the demand, but the sources of generation have varied over decades. This has given renewable energy sources a tremendous growth potential, and recent capacity additions have come mainly from natural gas and renewable. Among renewable, solar and wind power provide most of the growth I]. The steady and rapid growth in solar photovoltaic installation across the world has been driven by many factors including renewable provide stand and decreasing costs of installations and incentives[1]-3]. The increasing capacity addition of solar PV anplications. In this paper presenting the different observations of solar PV system and sko observed the characteristics of voltage and current or voltage and power for different solar radiation and theorementure respectively. In second observation we observed and analysis the performance of PV module in series or parallel connection with respect to 1-V and -V-Deharacteristics. In third observations module in output power by using the DC-to-DC converter and also observed the MPP by varying the day cycle of converter. In sixth and seventh case, to observed the performance of SEPC converter in open and closed loop system respectively and to solar module in output power by using the DC-to-DC converter.

INTRODUCTION

Solar energy is the raw material and main source for several applications of renewable energy systems; thus, knowledge about the intensity of solar irradiation is essential for efficiency of these systems. Electric energy sources capable of meeting the growing demands of society with minimal impacts to the environment and high efficience have been object of research in the last decade. In this context, the conversion of sunlight into electricity through photovoltaic cells has become one of the most encouraged and used resources in the world. However, the most unpredictable factor, which hampers capturing solar irradiation, preventing a "orper conversion of sunlight into electricity, is the presence of clouds in the sky."

LITURATURE REVIEW

SomasundaramEssakiappanet. al. [4] discussed megawatt-scale PV plant is divided into many zones, each comprising of two series-connected arrays. Each zone employs a medium-frequency transformer with three secondary's, which interfacewith the three phases of the medium voltage grid. An insulated-gate biplant transistor full birdige inverter feeds the MF transformer. The voltages at the transformer secondary's are then converted to three-phase line frequency ac by three full-bridge ac-ac converters. Second line frequency harmonic power does not appear in the do bus, thereby reducing the dc capacitor size. Casaading several such cells, a high-quality multilevel medium-voltage output is generated. A new control method is proposed for the casaaded multilevel converter during partial shading while minimizing the switch ratings. The proposed topology eliminates the need for line frequency transformer isolation and reduces the dc bus capacitor size, while improving the power factor and energy yield. Paper presents the analysis, design example, and operation of a 10-MW utility PV system with experimental results on a scaleddown laboratory prototype.

Nicolae-Cristianet. al. [5] introduces a reliability-oriented design tool for a new generation of grid-connected photovoltaic (PV) inverters. The proposed design tool consists of a real field mission profile (RFMP) model (for two operating regions: USA and Dennark), a PV panel model, a grid-connected PV inverter model, an electrothermal model, and the lifetime model of the power semiconductor devices. An accurate long-term simulation model able to consider the one-year RFMP (solar irradiance and ambient temoerature) is developed. International Research Journal of Engineering and Technology (IRJET) + 4558/ 2395-0056 p-4558/ 2395-0072 p-4558/ 2395-0072

Semi-Automated Brain Tumor Segmentation and Detection from MRI

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Abstract - To increases the survival rate of the brain tumor patients and to have a improved treatment technique in medical image processing, brain tumor segmentation is essential method of diagnosis. The early and correct diagnosis of brain tumors plays an important role. Magnetic Resonance Imaging (MRI) technique is the most popular non-invasive chnique; in these days imaging of biological structures by RI is a common investigating procedure. For cancer diagnosis the brain tumors segmentation can be done manually from MRI, which gives the poor level of accuracy and identification. The classification of abnormalities is not predictable and straightforward but it is a time consuming task for physician. Nowadays, the issue of automatic segmentation and analysis of brain tumours are major research area. However the detection of tumor is a challenging task since tumor possesses complex characteristics in appearance and boundaries. In order to produce a completely automated segmentation method like the KG (knowledgeguided) technique which encrypts the information of the pixel intensity and spatial relationships in the images. The k NN classifier under the learned optimal distance metrics is used to determine the possibility of each pixel belonging to the foreground (tumour) and the back ground. The paper presents semi-automatic segmentation method by using CNN (Convolutional neural networks) on the basis of individual statistical information and population, to segment brain aumours early, increase the correct rate and minimize error rate. The experimental result of proposed method demonstrates the robustness for brain tumor segmentation. It shows improved result for classification of Brain tumor from MRI of brain than k-NN Classifier.

Key Words: Brain Tumor, Brain Tumor Segmentation, CNN, Magnetic Resonance Imaging (MRI).

1. INTRODUCTION

The centre of human central nervous system is Brain Brain is a complex organ and it consists of very large network forming due to presence of 50-100 billion neurons. Brain timor is nothing but abnormal growth of set of cells that grow inside or around the brain uncontrollady. The malignant and benign are types of brain tumors. The noncancerous tumor is benign. It is less harmfold, generally localized and it does not spread to other parts of the body and well treated due to its proper response. Benign tumor is less harmful than malignant tumor. Malignant tumors are cancerous growths. They are often resistant to treatment

tumors are classified into primary and secondary tumors. The malignant tumor spreads very fast and attacks other brain tissues and weakens the heits condition which moot of the time clauses even death. The detection of Brain tumor is very challenging problem for preliminary judgment on diagnosis, due to complex structure of brain [1]-[6].

The magnetic resonance imaging (MMI) images are used in medical imaging technique. To provide detailed information about the internal itsourcemanators of the exact location is an importe a task which helps to find out the shape & size of mains. In herina tumor detection techniques, magnet tumor from MRI images of brain different image segmentation of MRI provides the detailed information about the soft brain tissues such as gray matter (MN), while there (MRI provides such as gray matter (MN), while values at the soft brain tissues such as gray matter to generation includes a manual segmentation and automatic segmentation in ducates annual segmentation and automatic segmentation.

For cancer diagnosis the brain tumors segmentation is done manually from MRI images, consist of large amount of data generated in clinical countine which is a unitorial segmentation is descovered by the automatic brain tumore image segmentation is negative the segmentation shows popular as these methods achieve the advanced results and can address the problem in improved war (5).

In general the current standard computational time is in few minutes. The actual segmentation tune is too difficult to achieve built medical routine, computation tune over a few minutes is not desirable. Another essential aspect robustness. If an automatic segmentation technique does not work in certain statutions, diminutant will no thave their faith and not use such technique. Therefore, the robustness is also one of the most important assessment criteria for every new technique applied in clinical practice. Some current brain fairly good computation time [7]. The paper proposes semiatoms the generation more detection and segmentation from NRI using convolutional neural networks has following objectives.

It improves the achieved segmentation results.

Solar PV System with Battery Energy Storage for Critical Load

Shridhar S. Khule, Sharad W. Mohod

Abstract - In a microgrid network, it is difficult to supply the critical load without energy storage, especially when renewable energy sources are used. The proposed solar PV system with battery energy storage is used to supply the controllable real and non-active power to the load. The generated solar power can be extracted under varying irradiance and temperature condition and can be stored in the batteries at low power demand hours. In proposed scheme, inverter control is implemented with active and non-active power control mode to achieve the faster dynamic switchover for the support of critical load. The Battery storage appended with solar PV system synthesizes the output waveform by injecting or absorbing non-active power and enable the real power flow required by the load. The system reduces the burden on the conventional source and utilizes solar PV to supply critical load constraints. Thus, the system provides fast response to support the critical loads. The scheme can also be operated in an islanded mode in case of grid failure. MATLAB/SIMULINK software is used to simulate the proposed system and results are presented

Keywords- Microgrid, solar PV Generator, battery energy storage, critical load.

I. INTRODUCTION

With high population growth and economic development in the world, there is a very high demand for energy. Traditional fossil fuel based power networks are facing confrontation due to the emerging crisis of these non sustainable resources, poor energy efficiency and increased environmental pollution. As a renewable energy, solar energy generation has been focused as a clean and inexhaustible energy providing a feasible solution to energy shortage [1]-[5]. The microgrid consisting of solar PV system with battery back-up is becoming more prominent with the increasing demand of power generation [6]. It increases the reliability of the system with reduced environment pollution. However the sporadic nature of solar PV source causes fluctuation in output power and will affect the operation in the distribution network. The residential, industrial and commercial consumers often operate the sensitive electronic equipments or critical load that cannot tolerate voltage deviation or loss of power, which moreover cause decrease in life of operating equipments or stoppage in industrial production [7]. Therefore there is a pressing need to mitigate the output fluctuation so as to supply quality power to the loads. The battery storage appended with solar PV system can provide the effective, reliable solution to the distributed power system. However, to maintain the voltage and frequency within permissible limit, the operation and control

Revised Manuscript Received on December 22, 2018. Shridhar S. Khule, Research Scholar, Prof. Ram Meghe Institute of Technology and Research, Badnera, Amravati, Maharashtra, India

of the inverter interface of solar PV in a microgrid is a real challenge [8]. Researchers in [9] proposed a voltage control method based on traditional droop control for voltage sag mitigation. Frequency regulation of a microgrid using solar power is explained in [10], however the battery storage is not considered. The coordinated control of solar PV system with battery back-up in microgrid is investigated in [11]; however this work lacks consideration of battery SOC constraint. In summary, the previous work either lack consideration of battery storage or incorporation of control transition in different scenarios. The proposed control strategy with battery storage fulfills these gaps by considering following objectives.

- · To supply real and non-active power from solar PV system and battery to the load
- · To extricate maximum power from solar PV generator
- · To maintain State of Charge (SOC) of battery
- Stan-alone operation of microgrid

The rest of the paper is organized as follows. Section II introduces the proposed microgrid. Section III briefly presents solar energy extraction with batteries. Section IV describes proposed active -reactive power (P-Q) control and battery SOC control strategies. Section V discusses experimental results. Section VI finally draws the conclusions.

II. PROPOSED MICROGRID

A microgrid architecture consisting of solar PV generator, battery energy storage, Diesel Generator (D-G) set and load is illustrated in Fig. 1. The microgrid consists of renewable energy resources, which are small units provided with power electronics (PE) interface. To obtain the maximum power under varying operating conditions, the solar PV array is integrated through a DC-DC boost converter and controlled using a Maximum Power Point Tracking (MPPT) algorithm [12]. The solar PV array is integrated through a DC-DC boost converter and controlled using a Maximum Power Point Tracking (MPPT) algorithm to obtain the maximum power under varying operating conditions [12]. The Battery Energy Storage System (BESS) is concatenated through buck boost converter to maintain state of charge of battery, BESS offers charging during the daytime when the irradiance is large and load is less, and discharging when the irradiance is less and load is more. The converter is used either in buck or boost mode to charge or discharge the battery respectively. The control signal provided to the converter switches maintains the operation mode.



Sharad W. Mohod, Professor, Prof. Ram Meghe Institute of Technology and Research Radners Ammonti Maharachtra India

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SECURE DATA TRANSMISSION THROUGH DIGITAL PROTECTION WALL OVER WIRELESS MEDIA"

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ABSTRACT: The secrecy and security of information has always been important to the people whenever it come to confidential data. Today there is advancement in internet technology and hence there has been increase in use of text and multimedia data transfer over internet. Thus this motivates us to add another layer of security to secrete data. Which hides the confidential information within carrier? The carrier we used is the transfer of images that can hide secret information within the region of image. The paper proposes method of half toning visual cryptography technique with digital protection wall Here which improves the imperceptibility as well as capacity of carrier by considering higher LSB layer for hiding secret information and replacing RGB component bit with secret information. Thus transfer of carrier through wireless media and recovering the secret data at receiving side. The data is extracted simply by using reverse algorithm. And the capacity, imperceptibility is compared by using various factors like cross correlation, MS error, peak to signal noise ratio. The suggested protection wall is flexible so that carrier can hide the data within the protected area and shall protect from unauthorized user which will be known to receiver only.

Keywords: Carrier Image, Higher LSB, Protection wall, Visual Cryptography, Half Toning.

1. INTRODUCTION

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Data hiding is the transmission of a secret message hidden within an ordinary carrier without revealing its existence. The container (cover file) may be a digital still image, audio file, or media file. Once the secret message has been embedded, it may be transferred across insecure lines or posted in public places. Usually, the data rate of covert data transmission using data hiding is low in order to keep the covert data imperceptible within the cover medium. This data rate is somewhat proportional to the volume of the cover medium. For this reason, digital media is a convenient choice for data hiding. Nowadays, given the high degree of collaboration and cooperation in modern information systems such as emerging multimedia sensor networks, covert communications becomes a greater threat to forensic analysis than ever. It is imperative to investigate methods to detect and discourage covert communications such as data hiding in multimedia networks that acquire highly correlated data.

Communication is very important with respect to word civilization. Nation who do not communicate with each other lost their identity. With the advancement of technology communication is mostly done through internet which is open and public in nature Internet came into existence in the late 1960s and 1970s out of the need to exchange research data among the researchers across different universities and also to enable communication in the battlefield to convey vital information which could prove advantageous in the war situations. Since the inception of the internet, the security and the confidentiality of the sensitive information have been of utmost importance and top priority.

Anybody with the proper knowledge and right applications can eavesdrop and learn of the communication and intercept the data transfer which could be very dangerous and Even life threatening in some situations. Ideally the internet and the communication network and the routing protocols should exhibit the properties such as security,

quality of service, reliability, robustness. Fault tolerance etc. But most of communication networks fail to provide such attributes and hence loss of information or stealing of information is carried out. This work will focus on the particular problem of the compressed media data hiding. The primary focus of video monitoring application is to resolve the difficulties such as object recognition, classification, and tracking.

2. DATA HIDING TECHNIQUE

A. Stegnography

It involves concealing of secrete information within ordinary file in order to avoid detection to unauthorized user. Stegnography is a Greek word in which steganos means hidden and graph means to write. Stegnography involves a cover file. Within this cover file secrete information is embedded. This cover can an audio, video or image and secrete information can also be anything like text, doc file etc. Thus by using this technique of stegnography for transmitting information wireless media make secrete data unidentified to unauthorized user.

B. Cryptography

It involves conversion of secrete information into other form. The converted information is usually called as cipher text. It involves storing and transmitting of data in such manner that only whom it is intended can access it.

C. Digital Watermarking

It is method of embedding data into digital media content. This method is generally used to verify the credibility of content or to recognize the identity of digital content owner.

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Detection and Identification of Plant Leaf Diseases based on Python

Prof. Ram Meghe Institute of Technology & Research

Abstract- The major cause for the decrease in the quality and amount of agricultural procarditiv is club sustainal Farmers encounter great difficulties in detecting and controlling plant diseases. Thus, it is of great importance to diagnose the plant diseases at early stages so that appropriate and timely action can be taken by the formers to avoid further losses. The project focuses on the approach based on image processing for detection of diseases of plants. In this paper, we propose an Android application that helps farmers for identifying plant di esse b' apla cing a l'af imig- to the system. The system has a set of algorithms which can identify the type of disease. Input image given by the user undergoes several processing steps to detect the distance and cendle are returned back to the user via android application.

Keywords- Image processing, Detection, Identification of plant leaf diseases, Convolutional neural network

The most widely used method for plant discuss detection is simply naked eye observation by experts through which identification and detection of plant diseases are done. For doing so, a large tests of experts is well at continuous monitoring of expense is required, which costs very high when farms are large. At the same time, in some countries, farmers don't have proper facilities or even idea that they can contact to experts. Due to which consulting experts even cost high as well as timeconsuming too. In such a condition, the suggested technique proves to be beneficial la musitari s ante fields of crops. And automatic detection of the discusses by just seeing the symptoms on in prest leaves makes in easier as well as encaper. Plant desease identification by the visual way is a more laborious task and at the same time less accurate and can be done only in limited areas. Whereas if automatic detection technique is used is will take fewer efforts, less time and more accurately. In plants, some general diseases are bacterial, black spotted, and others are Rust, viral and Red contan Leaf Image processing is the technique which is used for measuring the affected area of disease, and to determine the difference in the color of the alf cied area [1]. Instan segmentation is the process of separating or musping an image into different parts. There are currently many different ways of performing image segmentation. ranging from the simple thresholding method to advanced color image segmentation methods. The segmentation process is based on verious features found in the image. This reight be color laformation boundaries or segment of an image

Prof. V.R. Raut Prof. Ram Meghe Institute of Technology & Research, Badnera

LITERATURE REVIEW

Paper [1] Extensive research has been conducted to explore various methods for automated identification of plant diseases. The disease can manifest in various parts of the plant such as roots, stem, fruit or leaves. As stated before, this work concentrates, particularly on leaves.

Paper [2] discussed a methodology for recognition of plaint diseases present on leaves and stem. The proposed work is composed of K-Means segmentation technique and the segmented images are classified using a neural network. They developed a method for detecting the visual signs of plant diseases by using the image processing algorithm. The accuracy of the algorithm was tested by comparing the images, which were segmented manually with those automatically segmented.

Paper [3] discussed various techniques to segment the diseased part of the plant. This paper also discussed some E Feetiare extraction and classification techniques to extract the features of infected leaf and the classification of plant diseases. The use of ANN methods for classification of disease in plants such as self-organizing feature map, back propagation algorithm, SVMs, etc. can be efficiently used. From these methods, we can accurately identify and classify various plant diseases using image processing techniques.

In paper [4] an approach based on image processing is used for automated plant diseases classification based on load image processing the research work is concerned with the discrimination between diseased and healthy soybean leaves using SVM classifier. They have tested our algorithm over the database of 120 images taken directly from different farms using different mobile cameras. The SIFT algorithm enables to correctly recognize the plant species based on the leaf shape. The SVM classifier can help in recognizing normal and diseased soybean leaves with an average accuracy as high as 93.79%. The main aim of the proposed work is to provide inputs to an autonomous DSS which will provide necessary help to the farmers as and when required over the mobile. This system will provide help to the farmer with minimal efforts. The farmer only needs to capture the image of the plant leaf using a mobile carnera and send it to the DSS, without any additional inputs.

In paper [5] the work represents groundnut leaf disease extraction and classification using color imagery. The color imaginary transform, color co-occurrence matrix, feature extraction will be done and get an efficiency

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Review on Detection and Identification of Plant Leaf Diseases based on Linux

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Abstract: The engine since for devices 1 is the sendin and amount of approximate production in form diverses. Further encounter encounter server all(file)(abstraction) and means that for the sending sending sending sending sending sending sending were than appropriate and intercents and the balance to the formore an analy further insers. The project focusion and the approach hand and image processing of intercents of performs on the balance of the project focusion of the approach hand and provide the sending plant diverse for applicability of large and accurate Tar consome has a good applicability with the sending sending sending applicability.

Keywords: image processing. Deterministication of plant leaf diseases

1. Introduction

The most widely used method for plant disease detection is simply naked eye observation by experts through which identification and detection of plant doesses are done. For doing so, a large team of experistas will as continuous monitoring of experts is required, which costs very high farmers don't have proper theils es or even idea that they can contact to experts. Due to which consulting experts even cost high as well as time-consuming too. In such condition, the suggested technique proves in he beneficial in the diseases by just seeing the symptoms on the plant leaves. makes it easier as well as cheaper. Plant disease identification by the visual way is a crore laborhous task and at the same time less accurate and can be done only in limited areas. Whereas if automose detection technique is accurately. In plants, some general diseases are brown and viral and bacterial discusses. Immee processing is the affected area [1]. Image segmentation is the process of separating or grouping an image into different ports. There are currently many different ways of performing image segmentation, ranging from the single faresholding method to advanced color image segmentation methods. The segmentation process is based or various features found in the image. This might be color information, brundaries or

2. Literature Review

Extensive research has been contacted to explore various methods for automoted identification of plan diseases. The disease can manifest in various pairs of the plan such as roots, isem, fruit or leaves. As nated before, this work concentrates, particularly on features. Paper [2] discussed a methodology for recognition of plant diseases present on lavers and starn. The proposed work is composed of K-Menns segmentation technique and the segmented images are classified using a neural network. They developed a method for detecting the visual signs of plat diseases by using the image processing algorithm. The mages, which were segmented manually with three manomically segmented.

Paper [3] discussed various techniques to segment the diseased part of the plant. This paper tailed discussed some Plantare curvation and characterization techniques to extract the features of intected leaf and the classification of plant diseases. The use of ANN methods for classification of disease in plants such as self-organizing formare may. back programming approximation system and the self-organizing from these methods, we can accurately identify and classify virtues plant disease using image processing techniques.

In paper [4] an approach based on image processing is used for automated plant diseases classification based on leaf image processing the research work is concerned with the discrimination between diseased and healthy soybean leaves using SVM classifier. They have tested our algorithm over the database of 120 images taken directly from different farms using different mobile cameras. The SIFT algorithm enables to correctly recognize the plant species based on the leaf shape. The SVM classifier can help in recognizing normal and diseased soybean leaves with an average accuracy as high as 93,79%. The main aim of the proposed work is to provide inputs to an autonomous DSS which will provide necessary help to the farmers as and when required over the mobile. This system will provide help to the farmer with minimal efforts. The farmer only needs to capture the image of the plant leaf using a mobile camera and send it to the DSS, without any additional inputs.

In paper [5] the work represents groundnut leaf disease extraction and classification using color imagery. The color imaginary transform, color co-occurrence matrix, feature extraction will be done and get an efficiency output with a

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Quality Analysis and Grading of Soybean using Image Processing and Neural Network

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Quality Analysis and Grading of Soybean using Image Processing and Neural Network

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Abstract: The use of good quality seed is very important for the better production of a good quality crop and is essential for export in markets. Quality control is very important in food industry because based on quality of food products are classified and graded into different grades. Soybean is primarily graded based on its grain shape, colour, size and texture. This paper attempts to automate the grading process by using image processing and machine vision techniques. Soybeam's grade is affected by damaging, devolourization, infection by insects, immatarity and shrivels, splitting, breaking, cracks, inorganic and organic foreign matter present in the sample. One of the objectives of this paper is to study the effect of these parameters on shape. colour, size and sexture of the soybean image. In the present soybean-handling scenario, type and quality are identified manually by visual inspection which is tedious and not accurate. There is need for the growth of accurate, fast and objective system for quality determination of food grains. This paper is automate the system for grading of soybean by extracting morphological features as attributes for classification using image processing techniques and artificial neural network. This method requires

minimum time and it is low in cost. Keywords: ANN, Grading, Image Processing, Saybean, Morphological, Seed features

Soybean contributes significantly to the Indian edible oil pool. Currently soybean contributes 43 % to the total obseeds and 25% to the total oil production in the country. Currently, Inda's rank is fourth in respect to production of soybean in the world. The crop helps earn valuable foreign exchange (Rs. 62000 millions in 2012-13) by way of soya meal exports. Soybean has largely been responsible in increasing farmer's economic status in many pockets of the country. It usually earns higher income to the farmers owing to the huge expert market for soybean de-oiled cake. In courast production of Soybean in India has increased at a CAGR of 9.60 per cent from 6.87 million tennes in 2004-05 to 15.68 million tennes in 2012-13. On the other hand Soybean meal consumption has also increased at a CAGR of 10.82 percent over the last eleven years from 1365 theusand million tonnes in 2004-05 to 4225 yousand million tounes in 2014-15. Therefore to increasing demand it is imperative to increase the productivity level of Soybean in te country. Production of sovbean in India is ruled by Maharahira and Madiya Prodesh which contribute 80 nm cent of the tetal

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Smart Underground Drainage Water Management System A Review

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Smart Underground Drainage Water Management System - A Review

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¹Final Year Student, M.E., ²Professor, ³Professor, PRMIT&R, Badmera, Maharashtra, India Abstract- Underground drainage water management system and the manholes in cities of our country India is one of the major issues, due to its poor maintenance. The drainage water that contains sevage and other domestic and industrial waste water is everflowed on the roads causing water logging and sometimes gets mixed up in the drinking water which causes health hazards to common people. To overcome this issue a model called Wireless sensor network based smart underground drainage water and safe multiple manholes management system is proposed. This proposed system will monitor various parameters related to various fluids in the underground drainage system such as the water level and gas level in the drainage system, manholes conditions, locating the underground blockage and removing the same in the drainage system and the measured values will be stored in the cloud storage. Then the stored data will be analysed and conditions of underground

drainage water system and manholes will be sent to nearby corporation office as short message using IoT module. Keywords- Infilmernet of Things), WSN(Wireless sensory network), GSM(Global System for mobile Communication), CPU(Central processing Unit), Zigbee, Wi-Fi(Wireless Fidelity), GPRS(General Packet Radio Service), UDS(Undergrannd

Drainage System), RTC(Real Time Control)

INTRODUCTION

In India most of the cities has underground drainage system are maintained by Municipal Corporation to make clean healthy surroundings and hence environment. Often due to poor maintenance of the underground drainage system, the water in the drainage system gets mixed up with the pure water and consumption of this polluted water leads to water berne diseases. Due to sudden changes in the atmosphere and variations in the climate during different seasons the drainage gets blocked or water logged, making environment unhealthy and disturbs the healthy routine of common people. To overcome all these issues in the underground drainage system and inform the municipal exponsion about the condition of the underground drainage system by sending short messages through internet, so that the officials can take the necessary action to repair the drainage system and the manholes. Also various gases are formed inside the drainage system due to domestic and industrial waste will also be detected using the different gas sensor so that we can avoid explosion due to pressure inside the drainage system. If the drainage system vanhole lid is opened for long hours then by using tilt angle sensor modules we can detect the opening of the lid over the amboles and inform the municipal corporation officials to take proper action on it. Thus, main aim is to monitor the

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"STUDY OF INTERNET OF THINGS AND DEVELOPMENT TOOLS AND TECHNOLOGY"

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ABSTRACT: Now a day's innovations in production of mobile computers and smart phones, sensors and sensor networks in connection with next generation mobile networks opened great opportunities for researchers and developers of various systems and application in the field of Smart Cities. Some typical applications including garbage monitoring, Humidity built-in sensors, water supply monitoring street light monitoring, and air pollution monitoring etc. require a smart gateway to provide high data rate, along with end-to-end connectivity is required with higher bandwidth. This paper presents a study of the research progress of IoT by analyzing the security requirements and presenting the different research areas of IOT and discusses the various open source software tools and hardware tools used for developing the IOT based Application.

Reywords: Sensors, Smart Cities, Internet of Things

1. INTRODUCTION

Internet of Things can be defined as an interconnection between people, animal or object that has ability to exchange data over network without involving human-to-human or human-to-computer interaction. IOT offer various kinds of connectivity from devices, systems, and services that work within machine-to-machine communications and cover most applications, domains and protocols. Nowadays, there are many implementations of IoT devices, for instances, garbage monitoring, Humidity built-in sensors, water supply monitoring street light monitoring, air pollution monitoring etc. In current market the implementation of smart thermostat systems and washer/dryer with for remote monitoring by using Wi-Fi can be construed as another example of IoT based systems. The main aim of this paper is to provide an a study of IoT security concerns, the relevant software development Pools, IoT modelers and simulators.

2. LITERATURE REVIEW

Shanzhi Chen et, al. [1] proposed acting standard that can hopefully balance desires from different parties, can open the door for future fundamental theory development, and can eventually stimulate/regulate IoT development. For the past few years, Chinese government is pushing the development of the IoT. Following the Chinese 12th Five-Year Plan for IoT Development, China has accomplished a number of demonstration application projects such as the smart city and the intelligent transportation system in public IoT applications, intelligent coal mine, and the IOFs in industry applications.

Sanjana Prasad et. al. [2] deals with the design and implementation of Smart surveillance monitoring system

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using Raspberry pi and PIR sensor for mobile devices. It increases the usage of mobile technology to provide essential security to our homes and for other control applications. The proposed home security system captures information and transmits it via a 3G Dongle to a Smart phone using web application. Raspberry pi operates and controls motion detectors and video cameras for remote sensing and surveillance, streams live video and records it for future playback. It can also find the number of persons located with the help of the Infrared sensor. The cameras automatically initiate recording and the Raspberry pi device alerts the owner of the possible intrusion having a smart phone. Raspberry- Pi has two main components interacting with each other: one is the Web Application that executes on the mobile device's browser and server-side scripts that run in a cloud which will be operated by the Raspberry Pi Hardware tool component.

Adarsh Hegde et. al. [3] helps to automatically monitor the supply of water from the authorities and to get alert regarding it which helps in the proper utilization of it. This will help the masses to fill up their containers even in case of unusual timing of supply with automated procedures. Also the automation helps to reduce the wastage of water when containers are filled. Since in urban masses where water scarcity is quite common problem in summer, there is need to monitor the consumption of water used for domestic purposes. So that it is possible for judicial usage of water especially in the dry areas.

Akshay D. Deshmukh et. al. [4] intends to provide information using wireless sensor technology which comprises of raspberry pi, Arduino Nano, Zigbee, wireless sense

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Design Wireless Sensor Network and IoT for Smart City

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Abstract- Now a day's innovations in production of mobile computers and smart phones, sensors and sensor networks in connection with next generation mobile networks opened great opportunities for researchers and developers of various systems and application in the field of Smart Cities. Some typical applications including garbage monitoring, Humidity built-in sensors, water supply monitoring street light monitoring, and air pollution monitoring etc. require a smart gateway to provide high data rate, end-to-end connectivity is required with higher bandwidth. This paper proposes a novel model for Smart city concept using the IoT which has important benefits.

Index Terms- sensors, Smart Cities, Internet of Things

1. INTRODUCTION

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Internet of Things can define as interconnection between people, animal or object that ability to exchange data over network without involving humanto-human or human-to-computer interaction. IOT offer various kinds of connectivity from devices, systems, and services that work within machine-to-machine communications and cover with applications, domains and protocols. Nowadays, there have many implementations of IoT devices, for instances, garbage monitoring, Humidity built-in sensors, water supply monitoring street light monitoring, air pollution monitoring etc. In current market the implementation of smart thermostat systems and washer/dryer for remote monitoring by using Wi-Fi.

In this work integrated system of Wi-Fi modem, IoT, Internet, Cameras and Sensor is introduced for efficient and economic garbage collection, Street Light Management, Water flow management, and Air pollution control in residential areas. The developed system provides improved for garbage collection time and waste amount at each location. We analyzed the solutions currently available for the implementation of IoT. By implementing this project we will avoid over flowing of garbage from the container in residential area which is previously either loaded manually or with the help of loaders in traditional trucks. It can automatically monitor the garbage bin & send the image of garbage bin to collection truck. The technologies which are used in the proposed system are good enough to ensure the practical and perfect for solid garbage collection process monitoring and management for green environment. The system monitors the street light. System simply checks the intensity of ambient light to the threshold value if ON the street light. Otherwise OFF the street light.

2. RELATED WORK

Shanzhi Chen et. al. [1] proposed acting standard can hopefully balance desires from different parties, can open the door for future fundamental theory development, and can eventually stimulate/regulate IoT development. Recent years, Chinese government is pushing the development of the IoT. Following the Chinese 12th Five-Year Plan for IoT Development, China has accomplished a number of demonstration application projects such as the smart city and the intelligent transportation system in public IoT applications, intelligent coal mine, and the IOFs in industry applications.

Sanjana Prasad et. al. [2] deals with the design and implementation of Smart surveillance monitoring system using Raspberry pi and PIR sensor for mobile devices. It increases the usage of mobile technology to provide essential security to our homes and for other control applications. The proposed home security system captures information and transmits it via a 3G Dongle to a Smart phone using web application. Raspberry pi operates and controls motion detectors and video cameras for remote sensing and surveillance, streams live video and records it for future playback. It can also find the number of persons located with the help of the Infrared sensor. The cameras automatically initiate recording and the Raspberry pi device alerts the owner of the possible intrusion having a smart phone. Raspberry- Pi has two main components interacting with each other: one is the Web Application that executes on the mobile device's browser and server-side scripts that run in a cloud which will be operated by the Raspberry Pi Hardware tool component.

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Home Automation and Surveillance: A review

K. S. Pachpor, Dept of Electronics and Telecomns, PRMTTR, Bachnen, Anruna ti(345), India. Dt. C.N.Deshmukh, Heid, Dign of Electronitics and Telecomm. PRMTR, Badinera, Americani(b45), India.

Abstruct—Home automation and Surveillance systems are being consistently undergoing changes due to developments in electronics and communication fields. Hight from telephone controlled home a pillances and imple common based system, the Home Astemation and Surveillance tocky has entered the follers. Home automation in fixed life under joint and an appliances appliances control at at algeb point which is mostly a smart phone. Surveillance requirement in rapidly increasing an domestic and commercial applications due to its low cost and ease of deployment. This paper takes stocks of how Home Astemation and Surveillance systems have been changed and implemented. Home Automation and Surveillance related increasing of and C-8 wave has hose referred for the review.

Koppords -Flows automation, Surveillance, Raspherry Fi, OpenCV, CCTV, Ziglice, XBee, SimpleCV, Cloud, Gamma wij de-

Introduction

The Surveillance and automation systems have become very important and indispensable for security reasons and energy conservation. Home automation and Surveillance system are in use since last 25-30 years. Initially systems were builty and were not so sophisticated as they are today. Home Automation terminology includes the functioning of all household appliances. For example, a micro-controller based system can have the capability to control everything from Fan, air conditioning, lighting and overall electrical appliances. The home automation will help individual to monitor and control home appliances remotely through internet. This paper reviews how home automation and surveillance systems developed in last 8-10 years. Different techniques used for surveil lance like OpenCV, SimpleCV, Gamma my correction etc. are discussed and different home automation architectures have also been focused in the paper.

II. Läterature Survey:

The brief review of techniques for developing Home automation and surveillance system using IoT based frameworks is presented below. Due-Man Flan, 2010 (1) addresses a Bew pearl home control system based on sensor networks to make home antworks more intelligent and autornatic. He developed smart home autornation and home energy management system using IEEE 802.15.4 and ZejfSe. It gathers sensing information using occupancy sensor, Passive InfraRed (PIR) Sensor and photo sensor.

J Bus Yc, 2012 (2) presented research work on adaptive smart horne system. In this system, the central controller uses feedback information from household appliances to learn the babies and to adjust the system automatically. The system uses toddler (used to find out the operation rules of user) and correlation all gorithms (used to find out the relation of operations) to learn the habits of the users.

O. V. Vrvek, 2015 (3) proposes IoT services using wiFa-ZagBee gateway for a home automation system. A smart home automation is an integration of smaller electrical devices and commanicates with each other with a central processing unit. ZigBee modes commanicate wire lessly to the coordinator which is connected to a Liman board at the receiver end or the control panel which is interfaced with a ZigBee International Journal of Research in Advent Technology, Vol.7, No.6, June 2019 E-ISSN: 2321-9637 Available online at www.ijrat.org

Design & Development of Network Geo-Fencing Model for User Monitoring and it's Alertness in a Security Applications

Minal Barapatre, Dr. C. N. Deshmukh

Abstract- A geo-fencing is a virtual fringe for a genuine geographic domain. A geo-fence can be produced according to client's need by thinking about various sweep, or a geo-fence can be a predefined defined of limits. Geo-fencing is utilization of geo-fence. Geo fencing is an element that uses the worldwide situating framework to characterize land limits. It has broadly expanding extension. Not a lot of utilizations are overseeing geo-admonitions that are proposed to instruct the adaptable/stationary customer proactively about zone express information. The advancement behind proactive region based organizations is called Geo-fencing. This work proposes geo-fencing foundation, in light of geo-fence region strategies. The work also compares the result of intended to demonstrate not only working of location based tracking system but also recommend the user location depending upon the geographical area. This method gives programmed checking of user goes to outside or inside a geo-fenced region. Cautions are produced when item individually enter or leave the limit. The state of the geo-fencing can be a straightforward geometric figure, similar to square or square shape, or a progressively convoluted one, similar to complex polygon.

Index Terms- geo-fence, global positioning system, geo-notifications

I. INTRODUCTION

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Geo-fencing is an web based application that uses the worklwide situating framework or radio recurrence recognizable proof to characterize geological boundaries.[1] A geo-fence is a virtual hindrance. Geo-fence applications and devices screen when cell phones or other physical articles cattorions or warnings when there's an adjustment in status for a gadget. These alarms can be in type of instant messages, mail notices, telephone calls or comparative methods for correspondence. Geo-fencing is executed on the cell phones. It incorporates the pensistent situating of the cell phone just as the consistent coordinating of the versatile's situation with a lot of geo-wall. The devices is viewed as a customer that is

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barapatreminal77@gmail.com Dr. C. N. Deshmukh, Department of Electronics & Telecommunication . PRMIT, Badners Armavati, Maharashtra, India-444701, Eenail: codesh1968@gmail.com² correlation of the versatile's situation with an enormous arrangement of committed zones, called geo-wall. By and large the goo-fracting alludes to the thought wherein the client characterizes the limits for all intents and purposes over a geological territory, and once the change is identified over a limit the warning is send to played out the ideal activity.

II. RELATED WORK

Sarifah Putri Raflesia et. al. [1] led to give IT-based kid security that can encourage the guardians and government the kids observing. The usage of identifying module triggers the no send notice to gatekeepers and structures server. In the interim, the goo-fraving method plans to empower the component of virtual (ence which empower the guardians to serven the kids.

Makeim Avdyushkin et al. [2] proposed a novel structure that consolidates the Wi-Fi passage with NFC innovation to safely confirm client's area. The arrangement can be utilized in mimerous application regions including access control finameworks where secure area approval is urgent. The arrangement is practical and does not require foundation changes. We have displayed a casual security investigation of our proposed plan portraying how the convention can relieve understood assustits against validation convertions. Also, we actualized a proof of idea utilizing Python and Java and led execution investigation of our proposed plan. The outcomes are promising as far as speed, stockpling use and correspondence overheads. Supposedly, this is the primary convention to consolidate NFC with Wi-Fi innovation to give secure are confirmation.

Tedah Dirgahayu et. al. [4] exhibited the component of area based solicitations sending that will be utilized in the administration switch of a LBS design with numerous data specialist organizations. The design permits clients in various geo-funcing regions be served by various specialist organizations. Up to a client remains in the equivalent geo-funcing grome, a similar specialist to -op serves that client. The system considers the clients' present land areas in deciding target specialist co-op learness that areas a storing instrument to make proficient the solicitation sending process. They have likewise portrayed usage of that instrument with a contextual analysis of air terminal data administration provisioning.

Teduh Dirgahayu et. al. [5] present a structural plan of geo-fencing crisis alarms framework for Hajj explorer. Utilizing the framework, a traveler in crisis can send an alarm 2019 IJRAR May 2019, Volume 6, Issue 2

DETECTION AND CLASSIFICATION OF DISEASES ON RICE AND SUGARCANE USING COMPUTER VISION TECHNIQUE

¹Sevakram Tanaji Kumbhare, ²Mrs. Madhavi S Joshi, ²Dr. D T Ingole, ⁴Mrs. A P Deshmukh

M.E. Research Scholar, "Professor, "Professor, "Asst. Professor Electronics & Tele, Engg, Department, Prof. RMIT&R, Badnera, India

Abstract: Race and Sugarcane are one of the most important crops in Maharashtra. In the agriculture field, disease identification from the cape immost of the second provide the second the cost and supfrare are use of the most important crops in Malarishtra. In the agriculture fruit, and are determined for Disease the cost images and crop protection is one of the interesting resorrb areas. Digital Image Processing can be applied for Disease school mages and cop protection is one of the interesting resource areas. Digital Image Processor gue to a superconst identification and classification. This project presents a prototype system for detection and classification of non-marked and and and a superconst discussion of the marked and the superconstant and the supercons diseases based on the images of infected plants. Images of the infected rise and sugarcane plants are captured by april of camera. Denoil images of infected plants. Images of the infected rise and sugarcane plants are captured by april of interval Digital image non-the integers of infected plants. Images of the infected rice and sugarcount plants are captured by upgate and the control of the plants. Analyzing the infected part, the type of disease is detected. Captured upper up to the starts of the plants. Analyzing the infected part, the type of disease is detected. Captured uses proceeding of users to defect infected parts of the plants. Analyzing the infected part, the oppe or unevent Captured image is in the RGB format which is then converted in HSV formul. Color feature is extracted using color histogram traching and the MSV. technique from the HSV image. Texture feature which is also an important parameter are extracted using GLCM (Gray Level Co-Occurrence Manue, Parameter Parameter Parameter are extracted using GLCM (Gray Level Co-Occurrence Matrix). Random Forest classifier is used to detect the disease on the plant.

IndexTerms - Computer Vision Technique, disease identification and classification, GLCM, Image processing, rice and Jugarcane disease

I. INTRODUCTION

In India, main source of the income for major population is Agriculture. In India, Almost 70 % of the population depends on farming. Almost 58 percent of the rural people depend on farming. Rice and sugarcane are one of the important foods in India. Sugarcane is one of the important eash crops. Discusses on rice and sugarcane destroy 10 to 15 % of production in Asia resulting in loss of earning. Plant diseases are the main cause for reduction of quality and quantity of agriculture crops. Reduction in both aspects can directly affect the overall production of the crop in a country. Different diseases that occur on rice plants are Bacterial Blight, Blast, and Sheath blight; on sugarcane crop are Leaf scald, rust and smut. Most of farmers are unable to identify disease well in time due to difficulty in identifying the discases, which lead to loss of the crop. The main problem is a lack of continuous monitoring of the plants. The current approach of disease detection is manual, which means farmers mainly depend on the guide books, use their experiences to identify the diseases or naked eye observation through experts. The accuracy of the decision taken by an expert depends on his/her physical condition, such as work pressure, fatigue and eye sight, climate etc. So this method is time consuming and less efficient. Each plant disease has different stages of growth. Farmers have to keep eyes on the infection, whenever the disease occurs on a plant. This approach of disease detection is time-consuming and requires some precaution during the selection of pesticides.

Probability of occurrence of diseases on any plant is unpredictable. However, a continuous monitoring may prevent disease infection. On any plant, diseases are mainly caused by bacteria, fungi, and viruses. Image processing operations can be used on external appearances of infected plants. However, the symptoms of diseases are different for different plants. Each disease has its own unique baracteristics. Diseases differ in shape, size, and color of disease symptoms. Some of the diseases might have the same color, but different shapes, while some have different colors but same shapes. Sometimes farmers get confused and are unable to take proper decision for selection of pesticides resulting in inefficient crop protection. This project attempts to apply concepts of Image Processing to solve the problem of automatic detection and classification of diseases of the rice and sugarcane cron.

II. LITERATURE REVIEW

Different approaches of Rice and Sugarcane leaf diseases have been proposed by various authors or researchers, described

Arva M S, Anjali K, et al. [3] proposed an idea of detecting plant diseases using image processing. Image processing toolbox of MATLAB is used for measuring affected area of disease and to determine the difference in the colour of the disease affected area. The algorithm can be used to classify the leaves and the classified outcomes are separated using Arduino based conveyor belt system. This reduces an important task of monitoring of farms crops at very early stage itself to detect the symptom of diseases appear on plant leaves. Framework for early detection of diseases in rice crops from visual symptoms was proposed. Author target rice crops owing to their extensive use in the Indian subcontinent and developed a user-friendly IoT reference architecture to provide on-field disease

Rakesh Chaware, Rohit Karpe, et al. [5] presented the critical analysis of different plants disease segmentation techniques. This provide description of leaf disease detection using image processing that can recognize problems in crops from images, based on



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Solar Panel Cleaning System with Inbuilt Power Supply

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Abstract - Growing interest in renewable energy has lead the solar photovoltaic (PV) industry to expand notably in the last decade. In the year 2014 a staggering a 3.03-million gigawatt hours of electricity was produced in the European Union covering 3 percent of the total electricity demand. Because Photovoltaic energy is an accessible technology, it has become a popular investment for companies as well as for residential users. We have designed and built an automated self-cleaning ar panel. The panel detects the presence of an obstruction shading a cell, and actuates a cleaning mechanism that cleans off the obstruction and, therefore, restores the panel to normal capacity. To power the cleaning mechanism, we built our own power supplies which are supplied by a 8V battery. When required, this battery is charged by solar power when the cleaning mechanism is idle.

Key Words: Dust, photovoltaic module, automated cleaning system.

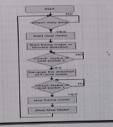
1. INTRODUCTION

The purpose of this project is to design and develop the cleaning solar panels automatically to increase the efficiency and energy output from these panels. It is shown that panel efficiency may be reduced by up to 5% to 10% from build up dust particles alone. Adding in other factors such as falling leaves, bird dropping and water streaking, the efficiency of 'sese panels can be further reduced to as much as 10 - 30%. Some studies linked about reduction in output. In the case of a commercial installation, this would be a significantly higher cost. For this project, we will focus for more of a smaller scale, as in the case of residential use. There will be several considerations taken when we will design this system. Firstly, in the case of residential use, solar panels are usually placed on the roof or terrace to receive the maximum amount of sunlight. Because of this, cleaning these solar panels would result in the home owner climbing up on to the roof to clean the panels, which can be very hazardous or risky. The other option would be to hire a company to do it for them. The system being designed should be automatic to prevent having to climb up onto the roof or terrace and allowing for the solar panels to be cleaned by others. Another factor taken into consideration was that solar panels tend to be placed in areas where there is a lot of sunshine and very little rain. Therefore, we would not depend upon rainfall to clean the panels, but water usage, for self-cleaning, in these areas may be limited as well. Also, there need to be a way of determining when to clean the solar panel since having it cleaned all the time would be

equally a waste of power or energy. Additionally, we could not depend on there being a reduction of power from the panels as a method of determining when it should be cleaned since a whole cloudy day would also result in a reduction in absorption of solar rays. The accumulation of dirt on solar panels ("soiling") can have a significant impact on the performance of PV systems in regions where rainfall is limited for a dry season of several months. This effect is magnified where rainfall is absent in the peak-solar summer months, such as in California and the Southwest region of the United States. This paper describes the effects of soiling on energy production for large grid-connected systems in the US and presents a model for predicting soiling losses. The adverse impact of soiling (dust deposition) on solar collectors, and the mitigation of the related energy

The adverse impact of soiling (dust deposition) on solar collectors, and the mitigation of the related energy yield losses, are the main scopes of this paper. While soiling related losses have been studied more extensively for flat plate photovoltaic (PV) panels, this study focuses primarily on the impact of dust accumulation on concentrated photovoltaic (CPV) and concentrated solar power (CSP) systems. We report on different methods used for cleaning solar collectors: (i) natural cleaning by rain and snowfall, (ii) manual cleaning by water and detergent, and (iii) an emerging method of dust removal by electrodynamic screens (EDS). Development of EDS technology as an automated, low-cost dust removal method which does not require any water or manual labour is presented.

2. METHODOLOGY



Real Time Attendance System using Face Recognition

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1.2.3.4.5 Student, PRMITR, Badnera-Amravati *Assistant Professor, Dept. of Extc Engineering, PRMITR, Badnera-Amravati

Abstract:- Uniqueness or individuality of an individual is his face. In this project face of an individual is used for the purpose of attendance making automatically, Attendance of the student is very important for every college, universities and school, Conventional methodology for taking attendance is by calling the name or roll number of the student and the attendance is scorded. Time consumption for this purpose is an important point of concern. Assume that the duration for one subject is around 60 minutes or 1 hour & to record attendance takes 5 to 10 minutes. For every tutor this is consumption of time. To stay away from these losses, an automatic process is used in this project which is based on image processing. In this project face detection and face recognition is used. Face detection is used to locate the position of face region and face recognition is used for marking the understudy's attendance. The database of all the students in the class is stored and when the face of the individual student matches with one of the faces stored in the database then the attendance is recorded.

This whole project consists of five modules such as:

- 1. Capturing the image.
- 2. Creating database.
- 5. Detecting faces.
- 4. Processing.
- 5. Face recognition and classification.

1. INTRODUCTION

This traditionally attendance is marked manually by teachers and they must make sure correct attendance is marked for respective student.

This whole process wastes some of lecture time and part of correct information is missed due to fraudulent and proxy cases.

The current systems that are used for updating attendance automatically are usually RFID based and Bio-metric based, but it has some drawbacks such as there can be chances of proxies, they are time consuming and quite complex process. By considering this drawback, here we proposed an attendance system which is based on face detection and recognition as the Face is the essential recognizable proof for any human.

It will increase accuracy and productivity of class. To make it possible for every platform we choose raspberry pi model. Camera will be interfaced with raspberry pi module for face detection.

This project can also used for different applications where face recognition is necessary for security purpose

In this proposed system we take the attendance using face recognition which recognizes the face of each student and according to this it will mark attendance of present students.

2. LITERATURE SURVEY

We all know that today's attendance marking system is completely manual where teacher calls student's name and relies on his/her reply to mark the attendance. This is very tedious task especially when there is large group of people. There are efforts by various researchers towards automating this task. Different technologies have been tried and implemented for implementing such an automated system which is highly efficient in terms of accuracy, speed and cost. Michael Dobson, Douglas Bernie Di Dario [1] proposed the concept of Automated Attendance System in 2006. The system includes identification tags, with wireless communication canabilities, for each potential attendee. There are scanners for detecting the attendees' tags as they enter a given room, at least one server in communication with the scanners. This study provided a way to get rid of tedious work for marking and recording attendance. Vishal Gahilot, Vijay Gupta [2] proposed the concept of Bluetooth Based Attendance Management System in 2013.Sumita Nainan, Romin Parekh, These systems tend to depend on external devices and tags which are to be externally possessed by students/attendees. One can easily handover these to others and hence there is high probability of fake attendances. For this, biometric based attendance is a good solution. O. Shoewu and O.A. Idowu [4] proposed the concept of Development of Attendance Management System using Biometrics in 2012. The system takes attendance electronically with the help of a finger print device and the records of the attendance are stored in a IRJET

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ASSISTING SYSTEM FOR PARALYZED AND MUTE PEOPLE WITH HEART RATE MONITORING

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Abstract - The noble cim behind this project is to design a health care system which will be helpful for paralyzed and mute propeles are failed as for the direction of hear tatack. A Dumb individual all through the world uses gesture based communication for the correspondence. The progression means that the discusses A sign Inguage primarily used by loady but out the present change over the communication for the discusses. A sign Inguage primarily used by loady but out by people who can hear having problem in speakings to the sign balance. A sign Inguage primarily used by loady but out fit for the communication for the communication of the data fram every position of general balance. The data for the distinguish each and occurrence conto be always principation. The data fram every position of general distinguish each and occurrence conto be always principation. The data fram every notificing frame distinguish each and occurrence conto be always principation. The data fram every have a set of the data fram every respective and the data fram every monoma drive used to detect heart people who occurrence conto be always principation frame and a some hold by and the set of the data fram every is reliable to normal user, but is not mobile enough to be used as a monitoring device for a heart potient continuously. Therefore, the is deviced and a logorbut for directing a heart attack wall for, heart out exits for a heart potient continuously therefore here we introduce a smart health care system which will take care of problems and need of paralyzed and mute people and will also help in devices in down at take.

Key Words: Heart rate, flex sensor, Mute People, Gesture Recognition, sign language.

1. INTRODUCTION

Paralysis is defined as the complete loss of muscle function in any part of the body. It occurs when there is a problem with the passage of messages between the muscles and brain .Due to paralysis patients are not able to move their some of body parts and also it is very difficult for them to talk with other person for their need or help. Hence our project will help paralyzed people to convey their messages to doctor or family member. This project will help them to do something by their own [2]. Its very difficult for mute people to convey their message to regular people. Since regular people are not trained on hand sign language, the communication becomes very difficult. In emergency or other times when a mute person travelling or among new people communication with nearby people or conveying a message becomes very difficult. [4]. Here we propose a smart speaking system that helps mute people in conveying the message to regular people using hand motions or gestures. The system makes the use of hand motion reading system equipped with motion along with a speaker unit. This system is powered by a battery powered circuitry to run it [3]. This framework offers voice to voiceless i.e. voice is given to the individual who can't talk. Imbecilic/quiet individuals utilize gesture based communication for correspondence reason. Communication through signing utilizes signals rather than sound to pass on data. This dialect incorporates consolidating hand shapes, hand developments, outward appearances to express person's considerations [7]. In this framework flex sensors assumes the real part. Flex sensors are the sensors whose resistivity changes with the measure of curve. This framework show fill in as an attractive Interpreter used to deciphers Sign Language in type of Gesture by a Dumb Person to Synthesized English Word which has a relating significance in Sign Language which translates a specific thing, as an Audio Output for Normal Person.[8]

2. LITERATURE SURVEY

According to a survey, nearly 1 in every 5000 people are paralyzed. Fully paralyzed patients require 24 hours apport 1 days, it is not possible to constant monitor patient. So they need a person which take care's movement disabled or paralyzed patient. And appliances summt be handled by them. So they need a person which take care's movement disabled or paralyzed are various applications which can be drive from eye blink detection and these are not limited. An efficient, real time blink detection and these are not limited. An efficient, real time blink detection and these are not limited. An efficient, real time blink detection are used for almost any purpose. It can be used for on/off appliances such as lighting devices, fan, television or a microwave oven. Electrooculographic direction of a wheelchair utilizing eye development A convenient remote eye development can be used for almost any purpose. It can be used for an off the electronic gadgets Launching the cacket utilizing look in war field A few inquires about have been done as of late to develop Human Computer Interface (HCI)[4]. Human Computer interface is an assitive innovation helps the general population with engine incapacities and who can't move their arms thas mind bogging human PC interface must be more developed, specific to that of the information can't enve their arms thas mind bogging human PC interface must be more developed, specific to thuman PC interface.

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SOLAR SMART FLOWER BASED POWER GENERATION & UTILIZATION IN IRRIGATION SYSTEM USING IOT

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Abstract - An A new technologies has been introduced and utilized in modern world, there is a need to bring advancement in the field of agriculture, Various types of Researched have heen undergone to do this and some are also have been widely used. This proposed system is one of them. In order to improve the crop productivity efficiently with new technologies, it is necessary to monitor the environmental conditions in and around the field. The parameter that have to be properly monitored to enhance the yield is moisture. Moisture sensors will monitor and collect information about the field moisture. So according to the need pump can be start to water the field. This can be done from anywhere with the help of IOT. Internet of Things (IoT) is being used in several real time analizations. The introduction of IoT along with the sensor network in gariculture refurbishes the traditional way of forming. Online moisture monitoring using IoT helps the farmers to stay connected to his field from anywhere and anytime. To make this system more former friendly on idea of using more and more renewable energy is utilized. This plug-and-play petals that follow the daily trajectory of the sun. It unfolds in the system allow it to protect itself from rain and high wind

Key Words: soil moisture sensor, smart flower, irritation system IOT, cloud networking

1. INTRODUCTION

6

The smart flower is an all-in-one ground mounted solar system with a tracker that follows the sun. It name comes from its design - the solar cells are arranged on individual "petals" that open at the beginning of each day. After the sun goes down, the smart flower petals fold up and a selfcleaning process kicks in. In addition to solar cells, the smart flower system contains a dual-axis tracker that makes it possible for its "petals" to follow the sun across the sky throughout the day. The smart flower-plus offers energy storage capabilities via an integrated battery in addition to the standard solar electricity generation that the smart flower offers. The main objective of this paper is to improve and stabilize the crop yields of smallholder olive farmers through the implementation of sustainable irrigation systems. To promote water management practices that optimizes the volume and timing of water distribution. To generate positive economic consequences for farmers and their families. Minimize year to year yield fluctuations, leading to higher and more stable farm income.[6][10]In this paper To make irrigation system more farmer friendly an idea of using more and more renewable energy is utilized. It

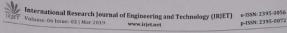
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became possible by using a SMART FLOWER which produces 40% more energy than a traditional photovoltaic panel. This plug-and-play renewable energy alternative is coulpped with 6 solar panel petals that follow the daily trajectory of the sun[3][4]. The concept in future can be enhanced by integrating GSM technology, such that whenever the water pump switches ON/OFF, an SMS is delivered to the concerned person regarding the status of the pump. We can also controlled the pump through SMS. The smart flower is an all-in-one ground mounted solar system with a tracker that follows the sun. It name comes from its design - the solar cells are arranged on individual "petals" that open at the beginning of each day[7][9]. After the sun coes down, the smart flower petals fold up and a self-cleaning process kicks in. In addition to solar cells, the smart flower system contains a dual-axis tracker that makes it possible for its "petals" to follow the sun across the sky throughout the day. The smart flower-plus offers energy storage capabilities via an integrated battery in addition to the standard solar electricity generation that the smart flower offers.

2. LITURATURE SURVEY

There are various Solar Powered Irrigation System implemented by various researchers. In one of the research Archana and Priva.et.al considered the humidity and soil moisture sensors which are placed in the root zone of the plant. Based on the sensed values the microcontroller is used to control the supply of water to the field. This system doesn't intimate the farmer about the field status. In another work Sonali D.Gainwar et al. which uses soil parameters such as pH, humidity, moisture and temperature are measured for getting high yield from soil. This system is fully automated which turns the motor pump ON/OFF as per the level of moisture in the soil. The current field status is not intimated. to the farmer[2]. Some another researchers. Karan kansara and S.Reshma and B.A.Sarath et al. shows an an automated irrigation system where the humidity and temperature sensors are used to sense the soil conditions and based on the microcontroller will control the water flow. Farmer will be intimated through GSM. This system doesn't monitor the nutrient content in the soil [3] also an IOT based automatic irritation system using wireless sensor networks in which various sensors are used to measure the soil parameters. This system provides a web interface to the user to monitor and control the system remotely. Weather monitoring is not done in this system [4]. In current research the researchers found that The new scenario of decreasing water , drving up of rivers and tanks, unpredictable environment, present an urgent need of proper utilization of water. To cope up with this use of temperature and moisture, sensors are placed at suitable locations for monitoring the crops.[3][8][9] After research in the agricultural field, researchers found that the

Page 1



Design Persistence of Vision Control Using Arduino

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Abstract - This paper mainly emphasizes on the Persistence Of Vision technology. In current era in which energy is the main factor in designing all the applications, maximum and efficient use of the energy is very important. A POV display has many advantages over a traditional CRT, LCD or LED display, like power savings, less complexity, easy configuration, attractiveness etc. To overcome the drawback of old processor we have decided to implement the same display atop a new and advanced microprocessor, the Arduino nano. This platform brings with it newer coding and a different understanding of peripherals. ARDUINO INTERFACE BOARDS provide us with a low-cost, easy-to use technology to create the project. We also aim to build the newer display to work with modern forms of interfaces. To accomplish this, we will be interfacing the display with an Android device. This project. can be implemented with help of any Android Smartphone/tablet running Android 4.0+.

Key Words: POV, Arduino nano, Android, ATMega 328, USB Interfacing, Piranha LED

1. INTRODUCTION

The core phenomenon on which the entire project is based is mathe Persistence of vision. Persistence of vision is the phenomenon pertaining to the human eye by which an after image is thought to persist for approximately one twentyfifth of a second on the retina. The way this phenomenon of persistence of vision works is based on the belief that human perception of motion (brain centered) is the result of persistence of vision (eye centered). Any motion that we see around us is the direct implication of persistence of vision phenomenon at work. Persistence of vision is still the accepted term for this phenomenon in the realm of cinema history and theory. Blinky POV is a reprogrammable LED kit that uses persistence of vision to create the illusion of text or a small picture floating in the air. The purpose of this project is to design and create a persistence of vision (POV) display. The display will allow the users to upload an image to be displayed through the wireless communication. A persistence of vision (POV) refers to the phenomenon of the human eye in which an after image exists for a brief time (10ms). A POV display exploits this phenomena by spinning in one dimensional row of LED's through a two dimensional space at such a high frequency that a two dimensional display is visible.

2. WHAT IS PERSISTENCE OF VISION

Persistence of vision refers to the optical illusion whereby multiple discrete images blend into a single image in the human mind. Our eyes offer one of the five specialized means by which our mind is able to form a picture of the world. The eye is a remarkable instrument, having certain characteristics to help us process the light we see in such a way that our mind can create meaning from it. Take the motion picture, the scanning of an image for television, and the sequential reproduction of the flickering visual images they produce. These work in part because of an optical phenomenon that has been called persistence of vision and its psychological partner, the phi phenomenon; the mental bridge that the mind forms to conceptually complete the gaps between the frames or pictures.

3. SYSTEM DESIGN

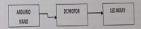


Fig - 1: Proposed Block diagram

Persistence of vision is an optical illusion in which many discrete images are blend into one single image on the human mind. This particular board has a set of 8 inline LEDs that you can program to display the POV effect. We have already implemented a POV display based on Arduino Nano. The display used is based on Arduino Nano that is used to control the switching of 8 red colored LED's

The display consisted of the following components

1. Arduino Nano: Processor used is ATmega328. Arduino Nano consists of 14 Digital input output pins and 8 Analog input pins. It is used for switching theLED's at appropriate time.

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"STUDY OF PERSISTENCE OF VISION AND ITS APPLICATION

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ABSTRACT: The term persistence of vision has come to be seen as inadequate to fully describe this very Domplex physiological reality, it remains a standard expression and, as such, it serves as a useful metaphor. In effect, the process know as persistence of vision plays a role in keeping the world from going pitch black every time blink our eyes. Whenever light strikes the retina, the brain retains the impression of that light for about a 10th to a 15th of a second (depending on the brightness of the image, retinal field of view, and color) after the source of that light is removed from sight. This is due to a prolonged chemical reaction. As a result, the eye cannot clearly distinguish changes in light that occur faster than this retention period. The changes either go unnoticed or they appear to be one continuous picture to the human observer.

Keywords: persistence of vision, metaphor, optical illusion, frames

1. INTRODUCTION

Persistence of vision refers to the optical illusion whereby multiple discrete images blend into a single image in the human mind. Our eyes offer one of the five specialized means by which our mind is able to form a picture of the world. The eye is a remarkable instrument, having certain characteristics to help us process the light we see in such a way that our mind can create meaning from it. Take the motion picture, the scanning of an

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A Novel Approach For Content based Image Retrieval by using Histogram

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Abstract - In the world of digital image processing since the need for content- based image retrieval has increased with increment size and volume of digital images. In this paper we implement the effective framework which is used to retrieve most similar images from large images database for the image provided by the user. We proposed methodology, an image present by a set of regions, while comparison of images are posing, each image represent by a histogram, hence the estimation of the region correspondence transform into an histogram matching problem. In addition, by using and image distance concepts, images obtained. Experimental results show that the proposed histogram image matching performance is acceptable.

Key words - Text based image retrieval, texture, color and shape feature, Local tetra pattern

1. INTRODUCTION

As human being get image, sound and any other information by seeing, hearing, perception and analysis. Human judge similarly of images and sound according to their semantic content, for instance the searching for a star's picture is based on his facial character or other content. So the retrieval technique based on text or keywords for the digital multimedia apparently can't meet the claim that human being get multimedia information exactly.

cherally we preferred to search by text on search engine like Google, Yahoo, Mozilla firebox etc. i. e. the images stored in text notation user enter the text thus images are on the basis of these text.

The figure shows that result of search images with text notation.



Fig.1.1 Flowers images search on Google



Fig.1.2 Flowers images search on Yahoo

Content based image retrieval (CBIR), also known as query by image content (QBIC) and content based visual information retrieval (CBVIR) is the application of computer vision techniques to the image retrieval

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A Review On Implementation of a Fire Fighting Robot Using Arduino

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Abstract - The project is designed to develop a fire fighting robot using XBEE module for remote operation. The wireless communication is used to control the robotic vehicle which is loaded with water tank and a pump to throw water. An Arduino is used for the desired operation. At the transmitting end using GUI, commands are sent through transmitter to the receiver which decodes it before feeding to other Arduino to control the movement of the robot that is to move the robot in forward, backward, left or right directions. At the receiving end three motors are interfaced to Arduino UNO where two of them are used for the movement of the vehicle and remaining one for the pump. The appropriate signals from transmitting end are used to carry out the operation of robot based on the Arduino UNO output. The robot body is mounted with a water tank and a water pump. A motor driver IC is interfaced to the Arduino UNO through which the controller drives the motors. Also a temperature sensor and gas and smoke detector is interfaced so that after crossing the threshold values, the water pump turns on automatically. Further a wireless camera is interfaced so that the person controlling it can view operation of the robot remotely on a screen.

Key Words: Arduino UNO, XBEE Module, GUI, Fire Sensor,

1.INTRODUCTION

A robot is machine which is capable of performing human tasks or behaving like a human. The expertise and complex programming is required to build a robot. It involves building of system and assembling various components together. Advances in economic growth in modern industrialized society have resulted in factories, complex office buildings, and dense apartment blocks located in metropolitan areas. Associated gas stations, oil reservoirs, and LNG storage facilities, which are all vulnerable to fire due to inflammable materials, are also found in these areas.

When a fire occurs in such places, fire-fighting is difficult due to mazes of crowded buildings, high temperatures, smoke and the danger of explosion.

Current fire-fighting systems are based on humans using water guns and chemical fire repression systems. However, humans cannot work effectively in all fire environments. In this case, it is desirable to extinguish a fire quickly using firefighting robots. A fire-fighting robot is one having a small fire sensing and extinguishing system attached to it. With the help of automation, the robot can be made human controlled. This paper includes the design and construction, working, implementation and future scope of a fire-fighting robot based on Arduino UNO which is used as a controller. The following concepts are implemented in our robot: environmental sensing, proportional motor control.

In order to control fire-fighting robots in remote places, robust radio communication systems are necessary. In our project the XBEE communication system is used for this purpose. The robot is monitored through a wireless camera present on it's top from the remotely situated control station using XBEE module. Thus according to the status of the various sensors of the robot, user can take required action.

Also in the other case, the water pump on the top of robot is automatically switched on and the robot sounds alarm with the help of buzzer provided to it when the output value of temperature and smoke sensor is above a certain threshold. This project helps to create the innovations and interests in the field of robotics while working towards a practical and approachable solution to save lives and mitigate the risk of property damage

2. RELATED WORK

One of the major concern for both industrial and residential areas is the loss due to fire damage. Fire causes enormous damage to life and property. The first fire department was

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"IOT BASED DIGITAL CHARGE CONTROLLER"

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Abstract: Solar Inverters are highly in demand for the alternative source of electricity. The home Inverter and off grid inverter are mostly use everywhere. These inverters are not able to monitor online as well as having only one battery bank to provide the backup supply. We propose the system which can be used with these inverters to put the normal inverter online as well as two battery banks to increase the life of battery and to reduce the maintenance cost.

Sometimes, electricity can be cut-off due to natural disasters often happened. So, this type of energy such as wind energy, hydraulic energy and solar energy, they are needed as the source of electricity. The advantages of choosing solar energy by using a solar panel are that the lifetime of solar panel is long lasting than any other source of energy. The solar charging system is very important and necessary to use for people live in rural areas. Now a days, we use the sun as a natural source of energy. Solar resource is unlimited the government is trying to implement the use of solar panels as energy source in rural and suburban areas for lighting the street lights power.

Keyword: NodeMCU, OLED, Relay.

Introduction: Solar home lighting system are photovoltaic systems which offers cost effective solution to supply energy to remote off- grid areas. Solar energy sustains life on Earth for all plants, animals and people because it provides an exciting solution for all the societies to meet their needs for clean, abundant sources of energy in the future. The main source of solar energy is the nuclear reaction at the core of the Sun, where the energy comes from the conversion of hydrogen into helium.



Solar energy is transmitted to the Earth in the form of electromagnetic waves, which can also be represented by photons. The Earth, therefore, is essentially a huge solar energy collector receiving large quantities of solar energy which can be seen in various forms such as plant photosynthesis, and evaporation of the oceans resulting as rain which forms rivers and provides hydropower energy.

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DIABETIC RETINOPATHY 2 CLASSIFICATION USING ADVANCE GENETIC ALGORITHM INFECTION DETECTION

S. M. Deshmukh¹, M.V. Tiwari², Juce Tatte³

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1. INTRODUCTION:

Diabetic Retinopathy is a disease of the retina resulting from the effects of diabetes on the retinal blood vessels, it is the leading cause of blindness in those of ages between 20 & 60. There are 3 main types of diabetic retinopathy:

1.1 Background Diabetic Retinopathy

Diabetic retinopathy is commonly seen in people who have been diabetic for a long time. The patient's vision is normal and his retinal blood vessels are mildly affected.

1.2 Diabetic Maculopathy

Fluid and protein may be leaked from the retina's blood vessels as a result of diabetes. This causes swelling of the retina. Vision will become blurred if the swelling involves the macula (centre of the retina).

1.3 Proliferative Diabetic Retinopathy

The retinal blood vessels are blocked, leading to the formation of new vessels which are abnormal and fragile. This may lead to haemorrhage (rupture of the vessels) in the eyes and cause a sudden vision loss.

In more advanced cases, scar tissue develops, The scarring will pull and distort the retina. This may cause the retinal to detach, resulting in a more severe loss of vision.

Types Of Available Treatments:

A. Laser Treatment

In the case of diabetic maculopathy, laser treatment to the points of leakage can decrease swelling and stabilize the vision. In the early stages of proliferative diabetic retinopathy, more extensive laser treatment can be done to slow down the formation of abnormal blood vessels, thereby preventing the development of more severe complications. Laser treatment has its risks. Some patients may experience a decrease in vision to the sides (peripheral vision). In others, night and colour vision may be affected.

B. Surgery

Surgery such as vitrectomy may be required in more severe cases where the disease continues worsening (persistent bleeding the eye/retinal detachment) despite the laser treatment.

Injection of Medication Inside The Eyes Medications such as Triamcinolone and anti VEGF can be injected inside the eye to help maintain/ improve vision in some patlents with diabetic retinopathy.

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SMART DEVICE TO CONTROL WATER BILLING UNITS

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and the second s

Abstract: Automation is a need of time, availy in this modern era automation helps us to save drame, availy and the modern the people prefer fresh water of municipality water pipe line. For that one has to pay for it: Water meter commented to the water pipe line supply of thome measure the amount of water used in a particular home and that reading us shown on it. Reading of meter is then noted down for billing purpose. Alter pressures 51 at 01 munutes helps or arrival of water abso increases the reading on the meter thus without any consumption of water we pay for it.

Our project Smart Water Meter is an Arduna based project. It is a prototype in which a value tatachah lefore the water meter remains close until the water reach at meter and automatically gets open up when the water is seased in a pipe line. We have used various components in this project such as pressure sensor, water sensor, driver LC and Arduno. All hene components or controlled using Controller Artigo 328. The main alim of this project is to save out money which we pay for air pressure.

1. INTRODUCTION

Most of the people prefer fresh water of municipality water pipe line. For that one has to pay for it. Water meter connected to the water pipe line usyphy at home measure the amount of water used in a particular home and that reading is shown on it. Reading of meter is then noted down for billing purpose. Air pressure 5 to 10 minutes before arrival of water also increases the reading on the meter thus without any consumption of water we pay for it.

In this project the Smart Water Meter is implemented using an Arduino. It is a prototype in which a valve attached before the automatically gets open up when the water is sensed in a pipe line. We have used various components in this project, water meter remains close until the water reach at meter and such as pressure sensor, water sensor, driver IC, relays ICD and Arduino. All these components are controlled using Controller Atmega 328. The main aim of this project is to save out money which we pay for air pressure-

Arduino based system is with automatic water mater which saves our money that we pay for air pressure which passes through the mater that increases our which controls the operation of our system. These our which controls the operation of our system. These sensors will be attached volves Le water valer and air pressure. Two which is the sensor water and air pressure two will get either open or close depending on the sensor reading. Valves are connected such that water valve will close the pipe line and air valve will be attached on the supper side to allow the air to pass.

2. Literature Review

In a modern world of technology, innovations are made every day for ease of living. While technology is developing from smart phones to artificial intelligence, our project emphasizes on a factor that is used in common man's day-today life, water taps. Our project, 'Smart Device to Control Water Billing Units' focuses on the main problem of extra charges that are incurred on water bills due to unnecessary air pressure generated in the water taps. In India, almost every household or at least every locality uses at least one water tap to use the water source provided by the municipality. The main problem that is caused in this process is that when the water is released from the assigned board, it flows through long pipes and travels long distance to finally reach the localities. Due to this long distance of flow, a huge air pressure is generated in the pipes, which practically reaches the water taps first before the water does. This makes the water meter start working even when the actual water flow is yet to reach the taps. Due to this problem, extra readings are measured on the water meter and thus, extra charges are incurred on the water bills. This problem needs to be eradicated and that's the main purpose of our project. Currently, our system uses decade old water JASC: Journal of Applied Science and Computations

Raspberry pi Based Self Alignment Chair

Prof. RashmiA. $Wakode^1, Abhilash Vinchurkar^2, Shubham Adsod^3, Mangesh Hirode^4, Tushar Pawar^5, \\$ ShubhamKakad6

Abstract-We are in a world which is blessed by modern technologies and smart structures that help us in our everyday life by making us familiarized with the invention in computing systems, computerization, artificial intelligence and so on. The world has seen an outbreak of smart systems in the last decade. To keep a significant contribution to the modern technological use, our proposed system enhances the growing need of smart systems. In this paper, a design of self-position aligning chair combined with the features of self-parking independent robot has been proposed. It diminishes both human efforts and time consumption in the process of furnishing and beautifying a conference room. Experimental results showed that the proposed model is more economical and affordable than the systems available till date. This work improves our lifestyles by reducing human efforts, saving time and also by maintaining more attractive working places.

Keywords - Arduino Uno; smart raspberry Pi board, meeting room; self-position aligning chair; object recognition; obstacle finding and escaping; image processing; automation and robotics.

INTRODUCTION

1

Today's world is now highly dependent on smart systems. Smart devices and equipment have made our lifestyles so comfortable that people all around the world are using these in their lives more than enough. Augmented reality in education, automation in transportation, development of artificial intelligent robots, evolution of IoT , data science and so on have noteworthy influence by introducing ourselves with an unproblematic way of life. The self-alignment wheel chair is used to eliminate the problem occurred in class room or auditorium getting messed up. In this system controlling of chair is depend upon detecting of particular object stored in it's code. The camera fixed on wheel chair capturing the image of eye and track the position of user, motor will be move in the required direction such as left, right and forward. Also the Ultrasonic sensor is mounted in front of wheel chair for safety to detect stagnant or mobile barriers. It will stop the wheel chair movements automatically. A raspberry Pi board is used to control whole system. This is cost effective and independent wheel chair system.

LiteratureSurvey

One of the major problem of lining up of chairs afterofficegatherings is now have a solution provided byanotableAutomakers. The Japanese firm has inventedself-fueledofficechairs which are able to arrange themselvesovertheirstoppingposition with the sound sensor. This Japanese organization utilized four movementcamerastowardtheedgesofaroofand utilizedthemtotrackgeneralofficechairson their innovationisotherwisecalledpicturehandling. The Wi-Fi

orderedcamerasfindeachchair sareaanditgetsbacktoitsbeginningstage. Theroomstructureispr e-modified into the framework, with singular seats allocated

theirownpositionatthetable. Theseatshavebeentailored toreactiothesoundsensororthedirectionsofahumanapplaud, with each seat consequently backtracks to its original position.Wewerereallytakingaglanceatofficeseatsasa theme and

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ROBOTIC HAND CONTROLLING USING FLEX SENSORS AND ARDUINO UNO

Mrs. Rashmi A. Wakode¹, Vinit A. Grover², Saurabh S. Mohod³, Anuja R. Damdar⁴, Rachana S. Gadpal⁵

Assistant Professor, Dept. of Electronics And Telecommunication Engineering., Prof. Ram Meghe Institute of Technology and Research, Badnera, Maharashtra, INDIA rechnology and Research, Badnera, Maharashtra, INDIA 23438BE Student, Dept. of Electronics and Telecommunication Engineering, Prof. Ram Meghe Institute of

Technology and Research, Badnera, Maharashtra, INDIA

Abstract - This paper sightsees the robotic hand by which it is possible to do such kind of tasks where human interventions are not Bossible. In an environment we have a set of the set of Possible. In an environment where human interaction cannot be possible to do such kind of tasks where human intervenuous desian a robatic hand with where human interaction cannot be possible to do a particular job where the robats can do. Here we design a robotic hand with the help of flex sensor, Arduino Uno & servo motor. Robotic applications necessitate sensors with high learee of accuracy and country in the help of flex sensor, Arduino Uno & servo motor. Robotic applications necessitate sensors with high Segree of accuracy and consistency. The advantage of using Fiersensor is that, we can achieve the expected results with high earee of exactness the expected results with high. egree of exactness. The above structure works on the standard values return by the flex sensor to the controller and by that dearer the hand matter is above structure works on the standard values return by the flex sensor to the controller and by that degree the hand and the fingers has to move to grasp an entity. The fire servo motors for each finger are also provided to control the orthogram of the control th

Key Words: Arduino Uno, Flex sensors, Analog to digital convertor, Servo motors.

1. INTRODUCTION

Unfortunately, most of persons met with an accident while working with huge machineries, that results in the loss of their limb. They may also have more of their limbs missing from their birth. But with the advent of technology, there are artificial limbs with that it is possible for those people to do things such as running, walking, holding the things, etc. These tools are called as prosthetics. A robotic hand is a mechanical device, which can perform parallel activities to a human hand. Robotic hands are the significant part of almost all the manufacturing firms. In firms, a robotic hand executes various functions such as welding, pruning, cutting and insertion etc. One of the biggest advantage of this hand is that it can work in dangerous areas and also in the areas where it is difficult to human to reach. The central purpose of this research work is to design and build an artificial part that will be strong enough to execute the assigned task. The hand is the one of the most intricate and weight bearing part of our human body which act as an input and output device to human. These objectives are intended by using flex sensor. A sensor is a device which identifies or measures a physical quantity then record it and after that responds to it. Robotic hand manipulators can have different arrangements. Some of these constrictions can be accurately mimic from the human hand omain to the robot's constrained joint space. In this paper a general method of representing human motions to the robotic hand domain has been verified. The hand moment is replied almost exactly by the robotic hand.

2. RELATED WORK:

Explanation of Inertial sensors in a very stimulating way and their inventive applications have been discussed in [1]. [2] explores an inspection of the effect of the distinct sensors on the working of a navigation system. [5] Provides the strategy of a controller proposed for remote operation, by which it is possible to control an anthropomorphic robotic arm through a LAN or via the Internet, [6] gives a review of relevant mobile robot positioning technologies like Odometry, Inertial Navigation, Magnetic Compasses, GPS Model Matching etc. Pick and place operation by controlling the speed and position using FPGA and sensor circuitry has been discussed in [7-8]. But the important contribution of present work is that any human hand moments can be mapped onto the robotic hand with good exactness. Further the tractability of micro controller coding makes the task much easier.

3. MODELLING:

The objective is to develop procedures that assist users to manage and program a robot, with a high-level of intellection from the robot specific language. Presenting a robotic demonstration in terms of high-level behaviours like gestures. communication, manual navigation, visual observation of human performance, etc., the user will determine the mechanism what it have to do. Programming and controlling an industrial robot through the use of machine is a critical and long task that meeds technical knowledge. Therefore, new and a lot of intuitive ways are needed for mechanism programming and management. In this work many determinations are directed towards recognizing human gestures, relevant to finger

Optimum Classification of Stress Types in Speech Using Machine Learning and AI

Mrs. N.P. Dhole and Dr. S.N. Kale

Abstract: Human speech is many times the reflection of stress through which the person is going through. Proper evaluation of these speech signals into stress types is necessary in order to ensure that the person is in a healthy state of mind. In this work we propose a novel highly accurate speech to stress classification algorithm, which uses machine learning (ML) and artificial intelligence (AI) combined with sophisticated feature extraction techniques. The machine learning and AI based approach introduced in this paper, uses an intelligent combination of feature selection and neural optimization algorithm which assists the system to learn the speech patterns in real time, and self-train itself in order to improve the classification accuracy of the overall system. We compared our approach with standard neural nets and fuzzy inference classifiers and obtained more than 25% improvement in classification performance. The proposed system is suitable for real time speech and is language and word independent.

Index Terms: Stress Classification, Machine Learning, Feature Selection, Neural Nets, Fuzzy Inference.

1. Introduction

Classification of human stress levels is a critical component of research for many psychologists and related medical practitioners. This classification can be done from user's speech, physical behaviour, sleep patterns and various other human interactions. While speech and physical behaviour are considered to be the primary parameters for evaluation of stress, sleep patterns, heart rate, and other measurements are secondary parameters for the same. Speech and physical behaviour is considered to be primary because of the fact that these parameters give a near-to-instant analysis of the user stress, while the secondary parameters need to perform some level of pattern analysis over a series observations in order to detect the stress levels and stress types. Out of the speech and physical behaviour patterns, the later demands complex level of processing, right from segmentation, pre-filtering & post-filtering, feature extraction, restricted environmental conditions and other parameters which either affect image processing or biomedical signal processing. These effects reduce the signal capturing capability of the system, thereby reducing the overall classification performance. Thus, speech based systems are best suited to perform the task of stress detection and

classification in real time. This paper is solely based on stress detection and classification from human speech, due to the fact that stress causes Diminished Immunity, Headache, Fatigue, Weight gain, Dyslipidemia, Hypertension, Heart Disease, Portials/Eczema, Digestive problems, and many more diseases. In medical terms, stress is a state of disharmony or a freat to homestasis which causes payd results in precived demonstasis which may exceed the generative resources. Some stress types are fuild, while have damaging effects, for earned the distress in montable, problems, effects, for earned the distress in succentibable, problems, or overwhelming atrees and is destructive. There is not acut attess which may exceed the spectrems of the distress in succentibable, problems, or overwhelming atrees and is destructive. There is due to the state stress which is destructive. There is the the ongoing exposure to stress, and may seem unreleating. These, it is necessary to deter and courol stress in order to have a backit brievel.

This paper proposes a novel algorithm to detect and classify the human speech into different stress classes, and thereby provide a preliminary analysis of the type of stress which the person might be undergoing. Doing this can help the person to analyze the stress and obtain remedies for the same. The next section describes various approaches which have been proposed for stress classification, the section next to that is dedicated to introduce our novel ML and AI based classification system, and finally the results of our technique are compared with the standard neural network and fuzzy inference classifiers to evaluate the performance of the proposed classifier. In the last section of this text we conclude with our observations, and with a few points of finer research which can be undertaken by the readers of this text.

Literature review

While most vendors of VSA (Voice stress analysis) technology omit specific details on how their systems work, by studying the basic literature, key information can be extracted on the theory behind the technology. Voice stress analysis originated from the concept that when a person is under stress, micro-muscle tremors (MMT) occur in the muscles that make up the vocal tract which are transmitted through the speech. VSA literature [2] points to a descriptor as the physiological basis for the MMT. This paper describes "a slight oscillation at approximately 10 cycles per second* (i.e. physiological tremots) during the normal contraction of the voluntary muscle. All muscles in the body, including the vocal chords, vibrate in the 8 to 12 Hz range. It is these MMT that the VSA vendors claim to be the sole source of detecting if an individual is lying. In moments of stress, especially if a person is exposed to jeopardy, the body prepares for fight or flight by increasing the readiness of its muscles to spring into action. This in turn causes the muscle vibrations to increase. According to the Merck Manual [3], "enhanced physiologic tremors may be

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Stress Speech Identification Using Various Neural Networks

Mrs. N.P. Dhole¹, Dr. S.N. Kale²

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Abstract: There has been a Speech Identification technology already available in the market based on different assumptions. The work presented in this paper investigates the feasibility of alternative approaches for solving the problem more efficiently. A Speech Identification particularly Stress component in the research comprised of three distinct blocks, a Feature Extraction Neural Networks and Identifier. The Feature Extractor block uses MFCC which is most prominent and efficient for Stress Speech Identifier. Designs of the Neural Network blocks based on four different approaches are compared. The performance of Support Vector Machine, Multi-Layer Perceptrons, Radial Basis Functions and Recurrent Neural Networks based Identifier is tested on Speech which consists of Stress components Identification problem. Experimental results indicate that applying these neural networks reduces the training complexity and the operation of the Identifier. During the implementation of this all algorithms some results have been obtained in terms of the accuracy and the quality of the Identifier. The comparison between the different approaches to the design of the Identifier conducted here gives a better understanding of the problem and its possible solutions for well being of the society.

Keywords: RBF, SVM, MLP, RNN, MFCC, Stress Classification, Feature Extraction.

Date of Submission: 07-05-2018

Date of acceptance: 22-05-2018

Introduction I.

Through spoken Languages we are able to communicate from person to person. From country to country and even states to states spoken languages are different. So here it becomes compulsory to design a system independent of language barrier and to ensure efficient stress identification. If an efficient speech recognition machine is enhanced by natural language systems and speech producing techniques, it would be possible to produce computational applications that do not require a keyboard and a screen [1]. This would allow incredible miniaturization of known systems facilitating the creation of small intelligent devices that can interact with a user through the use of speech [2]. Stress Identification is remarkably gained high attention in various fields from two decades. The fields

are Medical, Forensics, Smart Environments, Teaching Learning Education, Human computer interactions, Emergency services and of course Real Time situations which is utmost crucial. From many years different speech recognition software's [3,4] has been developed to speed up the accuracy using various classifiers on several databases [5]. We have also revised the literature review of numerous researchers for the same work [6,7,8,9,10]. We have used for this work the Berlin database and Humaine database as Benchmark Datasets. Again we have recorded our speech samples using Audacity software with different frequencies. Speech signal recorded was of people having male, female voices including children above eight years and elder's up to age of

It is important to understand that it is not the purpose of this work to develop a full-scale Stress Speech 58. Identifier but only to test new techniques and explore their usefulness in providing more efficient solutions. Doing this can help the person to analyze the stress and obtain remedies for the same. The whole Algorithm is developed in MATLAB Software.

1.1 Berlin Database

The article describes a database of emotional speech. Ten actors (5 Female and 5 Male) simulated the emotions, producing 10 German utterances (5 short and 5 longer sentences) which could be used in everyday communication and are interpretable in all applied emotions [11][12]. The recordings were taken in an anethole chamber with high-quality recording equipment. In addition to the sound electro-glottograms were recorded, The speech material comprises about 800 sentences (seven emotions * ten actors * ten sentences + some second versions). The complete database was evaluated in a perception test regarding the recognisability of emotions and their naturalness [9]. Utterances recognised better than \$0% and judged as natural by more than 60% of the

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Wi-Fi Dust Bin System

Prof. Mrs. N.P.Dhole Tejaswini Gawande, Rutuja Raut, Akshay Dhood, Abhishek Kularkar, Dhananjay Gharad

Prof. Ram Meghe Institute of Technology and Research, Badnera, Amaravati. Corresponding Author: Prof. Mrs. N.P.Dhole

Adstract: In our country, Garbage is a very hig lesse. It creates some unbrgenic problems and problems related to the society health issue, it creates subplied proof dossace. Carelass traking of garbage on the reads is a common scenario to be found in our country. And also now a days internet is a very important part in our left for digitization. Thus for this kind of traines, a Wi-FD bashto can be use, it is a system that whenever antenness code to the neuror, to use the Wi-Fi available.

Keywords: IR Sensors, Micro-controllers, W:-Fi Ronters, Software Development Kit(SDK).

Dute of Submission: 15-04-2019

Date of acceptance: 30-04-2019

I. Introduction

Many times, in our city we seen that trash was present in out of dustbin. It creates unhygienic conditions for getplay style an uptimes to thin gaince fearing fund stabilized size Reaking the needs of the filternethineverthay life, we decided to give fee Wi-fi to people in exchange of a cleaner surrounding with an unique initiative.

HTML Cool C Market in the state of the state

Modi announced Clean India Mission launched by Government of India. In this mission covering 4,041 cities and infrastructure of country.

Inspiring by these mission we proposed the sniart Wi-Fi dusthin system for smart garbage waste collection. The work proposed in this paper illustrates how the Smart bin solution empowers cleaning public area like Railway stations, Global store, Colleges, Hoels etc.to detect cleanliness issues in real time. Thus, the system is able to help in increasing overall procettivity and cleanliness.

II. Literature Survey

This is not an original/dea, for the implementation of Wi-Fi trash bin; the idea has existed for few years, After the Internet of Things (IoT) field finding its grip in our lives.

M. Prasmith, Pragdya Scinivasan et al proposes system where the sensors in the bin check if the bin is filled up to the brim or nyt. If it is filled it sends an automated message to the server end of the system, through the Ardiumo SIM modele, which is made use of by the application of the Ardiumo band. Once the server receives the message if forwards the message to the worker in charge, with respect to the Worker ID that is stored it the workey database. If the worker is available, the will only of hisker presence by accepting the work and will reach the required destination. If the worker is not available, the work will be transferred to another worker.

P. Suresh, Vijāy et.al gave the idea of IoT subject and addition details about IoT. The proper smart environment and various applications. This paper aims in structuring a state of the art review on IoT. The technology, history and applications have been ciscused briefly about satisfies.

SaunabhDugdhe, Pooja Shelaretal proposes Waste Collection System architecture using Interest of Things has been proposed. The architecture consists of Embedded device with sensors and microcentroller for sensing information of Bins and sending to workstation, which is situated at municipal office for finding slortest path. This technique of waste removal will keep the city clean. The proposed system is an attempt to improve current waste collection system in India for the "Clean India Mission". The system will also generate reports about waste gathering and fuel consumption.

Parkash and Prabhu V have implemented real time waste management system by using smart dusthins to check the fill level of smart dustbins whether the dustbin are full or not. In this system the information of all

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Smart Irrigation System

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Dhole⁵

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Abstract - Most of India's land area is agricultural land. Irrigation is method to the supply of water to the and or soil. It is used to help in the growing of agricultural crops, maintenance of landscapes, and rebuilding of disturbed soils in dry areas and during periods of insufficient rain. With the water requirements in irrigation being large, there is a need for a smart irrigation system that can save the water. It also helps in water conservation by automatically providing water to the plants/gardens depending on their need of water. It's hardly possible that farmer must hold the perfect knowledge about growing identification of plants in case of water supply. In Indian economy most of part is depend on agriculture and under this condition. This focus on saving time and avoiding problems like constant attention provided with animal attack system and short circuit detection. if there will be any system which will help to provide exact level of water to plants then it will definitely lead to beneficial for our economy. So to help them we are making an attempt by introducing our project "Smart irrigation system".

By using sensors in our project we will make them aware about changing terms of moisture level according to weather so according to changing terms of moisture they will be able to plan the proper timing for water supply.

Key Words: Short circuit detection , GSM 900, Animal attack system ,Arduino,Soil Moisture

Sensor, Relay.

1.INTRODUCTION

This an GSM (Global System for Mobile communication) based on Arduino for irrigation. The interface and communication between user and designed system is via Short Message System(SMS) on GSM network if the user is within the range of 10m of designed system. agriculture is backbone of Indian economy. Irrigation is heart of agriculture. Irrigation is used to help growing crops in the field land during the in adequate rainfall period. Pesticide is used preventing, destroying or mitigating any pest. Both of these are very important for good productivity and both need time to time application in the farm field. In India approximately 20% of farmers are dependent on electric water pumps for irrigation in their field. The soil moisture based irrigation control uses Tensiometric and Volumetric techniques, which are relatively simple but these quantities are related through a soil water characteristic curve that is specific to a soil type. Also the sensors used require routine maintenance for efficient performance. Intelligent automatic plant irrigation system concentrates watering plants regularly without human monitoring using a moisture sensor. To improve water efficiency there must be a proper irrigation scheduling strategy. In this paper a simple system is mentioned using a Arduino to automate the irrigation and watering of small potted plants or crops with minimal manual interference.

1.1 Objective

- In the present aeon one of the greatest problems faced by the world is water scarcity and agriculture being a demanding business consumes plenty of water.
- A system is required that uses water sensible.
 Focus of this system is to overcome this problem by using smart irrigation system.
- Smart irrigation systems estimate and measure reduction of existing plant moisture in order to operate an irrigation system, restoring water as needed while minimizing unwanted water use.

2. LITERATURE REVIEW

On this detail, the existing works "Applied engineering in agriculture" [1]. "Data acquisition system and irrigation controller" [12] and "Automation in Micro-Irrigation" [13], employs subsurface drip irrigation using two drip tapes and are time based

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RESEARCH ARTICLE

An Overview on Stress Identification in Speech

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Abstract:

Twenty papers are reviewed, Each paper consists of human speech under different stressful or emobasic description of each paper and its applications is provided. The conclusion of this study is that we find different algorithms with various databases and technologies are envisaged to detect stress under speech.

I. INTRODUCTION

Speech signal is that signal in which a person communicates with one another. Speech production consists of sequence of articulatory movements, airflow from respiratory system & timing of vocal system. Again human emotion plays an important role in speech production which can analyze an individual state of mind in which he/she acts or reacts relating to surrounding. It may be termed as human behavior which considers six basic emotions which are happiness, sadness, anger, fear, surprise & disgust. It becomes important to detect emotional state of a person which will be induced by workload, background noise, physical environmental factors (e.g. G-force) & fatigue.

Broadly, stress identification becomes a scientific challenge to analyze a human being interaction with environment .Therefore stress can be defined as a psychophysiological characterized by emotions, strain & deterioration of performance[1] . Therefore, it has become increasingly important to study speech under stress in order to improve the performance of speech recognition systems, to recognize when people are in a stressed state and to understand contexts in which speakers are communicating.

Following are the areas where identification of stress

from speech includes:

A. Forensics Deception detection systems, analysis of 911 phone calls

that can include threats [2, 3].

B. Safety and Security

Air traffic controllers and pilots in noisy high stress environments, deep sea divers, NASA-space explorations, power system operators [2], military persons facing examination panel [4, 5], law enforcement training.

C. Psychology

Emotional state of patients- The levels where speech communication/production occurs and their corresponding Stress order [6, 7].

DESCRIPTION OF STRESS SPEECH WORK

The problem of stress identification has been receiving an increasing attention in related research communities due to wider recognition of potential problems caused by several reasons & due to the recent developments of technologies providing non- intrusive ways of collecting continuously objective measurements to monitor stress level

Following literature review enlights work done by researchers on analyzing stress by different ways using speech.

Hindra Kurniawan, et.al. [11] have analyzed that stress level can be judged based on Galvanic Skin Response(GSR) & speech signal. But GSR & speech signal under stress may not be available at same time. The speech was sampled at a sampling rate of 44,100 Hz by using two channels, Facial expression was recorded using Handy cam Camcorders with High Definition (HD) resolution at 1, 440 × 1, 080 pixels . To make a GSR sensor measuring the changes in skin conductance they used the LEGO Mind storms NXTI and an RCX wire connector sensor, which converts the analog reading to digital raw values in the range of 0 to 1,023.

Xiao Yao, et.al [12] have proposed a method for the classification of speech under stress that is based on a physical

model for classification of neutral & stressed speech. Bahador Makkiabadi & Sacid Santi [13] have proposed a novel tensor factorization method which is

developed to solve the under-determined blind source separation (UBSS) and especially under-determined blind identification (UBI) problems in mixed speech signals.

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Performance Analysis of Solar based Induction Motor for Water Pumping System

S. Tiwari, Girish Patil, S. Deshmukh · Published 3 August 2018 · Engineering

Performance analysis of solar photovoltaic array fed single phase induction motor (IM) drive for water pumping system. In the proposed method, the output DC power of the solar PV array is stored in battery and the stored DC energy is directly fed as input to the inverter and output of the inverter is fed to the single phase induction motor for water pumping system. A centrifugal pump connected with the single phase indication motor for water pumping system. The size of PV array and motor rating selected such that the water can also be pumped during the varying in temperature and irradiation level. This study evaluates the performance parameters namely current, speed, temperature and vibrations. The GUI is developed to control the action of motor and monitor the above mentioned parameters values through appropriate sensors and microcontroller. The speed control through microcontroller by varying the pulse ON duration is studied a well as the effect of speed on vibrations is also observed. The critical experimentation is carried out to analyze the above said parameters and examines the effectiveness the single phase induction motor for solar PV based water pumping system. Collapse

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Machine Learning an Automotive Intelligent Approach for Text Analysis Dr. Abrar S. Abd⁴ Frafik K. Aproval⁴

Department of Information Technology Department of Computer Science & Engineering

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A Review of Opinion Mining and Analysis

Prof. M. S. Deshmukh, Prof. Ms. P. V. Dudhe, Prof. Ms. N. V. Kadam, Dr. N. N. Khalsa

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Keywords-Opinion Mining, Sentiment Analysis, natural language processing

I. INTRODUCTION

Internet in today's life is like a lifeline of every individual. Social media is flooded with various forums, blogs, video sharing websites, coding platforms and social metworking platforms, which can also be mentioned as social media data, is diverse, including test, images, audio and videos. Each one has a social media accourt and are posting various activities from their life on social media. The comment or opinion put on social media also are in large volume and has to be managed regulatly. All the comments put on social media data, put in different languages and it's a herculean task to analyze the data which is in terabyte. The opinion medis to be analyzed for a better solution for certain problem in specific area. That's where there is meed for opinion analysis, serimmet malysis.

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II. LITERATURE SURVEY

Opinion mining deals with on polarity detection and sentiment analysis is related with emotion recognition. For opinion mining and sentiment analysis, data mining and processing techniques are used. Processing technique processes the natural language used for commenting and giving opinion These techniques help to uncover, retrieve, and refine Opinion from the internet's vast textual information.

Now a days, opinion mining and settiment analysis research are evolved in both technique sophistication and analysis depth. Bo Pang [1] with her colleagues classified complete documents based on overall positive or negative polarity. They also gave rating scores of reviews. These documents were mainly supervised and labeled samples done manually. Examples samples like a movie or reviews of product explicitly infacting an overall polarity of an opinion.

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A Review paper on various applications of Big data

Prof.Ms.P.V.Dudhe Prof. M. S. Deshmukh Prof.Ms.N.V.Kadam Prof. R. M. Hushangabade

Abstract: Big data is one of the current affair field for work and future research attractions for the bigger of researches. Big data will changes at a great rate in various fields like business, the scientific research. There are mostly researchers used 3V and 4V for defining the concept of big data. First V is having a specified size data i.e. volume, second V define the frequest rate of data i.e. velocity, third V defines heterogeneity of data types and sources. Last V will be extended by researchers according to special requirement. Forth V can be value, variability or virtual. Big data this is the concept of collection of data sets which is very large in size and very complex behavior so that it has become very difficult to process the data. This paper gives a review on various applications based on big data in various fields. *Laywords*: Big data

LINTRODUCTION

Five V's of big data

- 1. Volume
- 2. Variety
- Structured (Proper Schema)
- b. Semi-structured
- c. Un-structured
- Velocity
- Value
- 5. Veracity

Problem with Big Data Processing.

1. Heterogeneity and Incompleteness

In fact, the a subtle difference in and the quality of being pleasingly deep of natural language can provide valuable depth. However, machine analysis algorithms expect of the same kind of data, and cannot understand differentiate it. In a result, data must be carefully structured as a first step in (or prior to) data analysis. Computer systems work most in a wellorganized and competent way. if they has stored multiple items that are all exactly alike in size and structure.

2. Scale

Any one first thought about the size of data so managing very large data is not so easy for any organization. This become very challenging task for every. So this technology having more scope to research.

3. Timeliness

To process large data set it required more time to get the analysis or get value added data. So there is a necessity of system that deals with the size of data and sending the output quickly. Rather, there is an acquisition rate challenge.

4. Privacy

The privacy in the big data is another huge concern, and one that increases scope of the new researchers in the Big Data. For storing records about health in electronic form, there are strict laws governing what can and cannot be done. Managing security in such a manner as to achieve a desired result by both a technical and a sociological problem, which must be representing jointly from both perspectives to realize the promise of big data.

5. Human Collaboration

There are various computational analysis algorithms are available but they may take more time to find the result so it is better to making some patterns, those are easily understand by human and detect output quick.

II. Literature Survey

Samiya Khan, Xiufeng Liu, Kashish A. Shakil, Mansaf Alam they talk about recently trents of big data, there has been a main on focus of organizations and governments towards digitization of academic and technical documents, adding a new concept of digital libraries. They carry out a systematic identification on the existing challenges in development of a big scholarly data platform, with specific focus on directions for future research and maps them to the different phases of the big data lifecycle [1]

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Information Security in Data Collector and Miner in Big Data Mining

Prof. Ms. Niketa V.Kadam, Prof.AnupG.Kadu, Prof. Ms. Preeti V.Dudhe, Deshmukh

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Abstract. The actual data mining task is the kind of semiautomatic or automatic analysis of large quantities of for the extra traction of previously unknown, interesting patterns for example, groups of data records (cluster analysis), unusual records (anomaly detection), and dependencies (association rule mining, sequential pattern mining). This can be performed using database techniques such as spatial indices. These patterns can be considered as a kind of the input data, and may be used in further analysis, in machine learning and predictive analysis. This is very useful in data mining step might identify multiple groups in the data, which can then be used to obtain more accurate prediction results by a decision support system.

Keywords- Cluster, pattern mining etc.

I. INTRODUCTION

In large data sets Data mining is useful for discovering patterns . It involves methods at the intersection of machine learning, statistics, and database systems. Data mining is an interdisciplinary subfield of computer science with The main goal of data mining is to extract information (with intelligent method) from a data set and it is used to transform the information into a comprehensible structure which get used for further processing. Data mining is very much helpful for the the analysis of the "knowledge discovery in databases" process, or KDD. Aside from the raw analysis step, it also involves database and data management aspects, datapreprocessing, model and inference considerations, interestingness. To extract previously unknown, interesting patterns such as groups of data records (cluster analysis), unusual records (anomaly detection), and dependencies (association rule mining, sequential pattern mining) this method of data mining is used for the huge data sets. This can be done using database techniques such as spatial indices. F11F21.

II. STAGES OF KNOWLEDGE DISCOVERY MODEL

There are four stages for knowledge discovery in databases (KDD) process as defined bellow:

- 2. Selection and Transformation
- 3. Data mining
- Evaluation and presentation.

Data cleaning: noise and inconsistent data get removed at this first step of data cleaning.

Data integration: At this stage, the combination of multiple data sources performed

Data selection: Retrieval of data from the database which is relevant to the analysis task is performed.

Data transformation: where data are summarized or aggregations operations are used at this stage to transformed and consolidate data into forms appropriate for mining.

Data mining: which is an most needed process where with the help of intelligent methods data patterns are extracted.

Pattern evaluation: It is used to identify the truly interesting patterns representing knowledge based on interesting measures.

Knowledge presentation: To present mined knowledge to user's visualization and knowledge representation techniques are used.

The basic form of the data in a table consists of following four types of attributes described bellow.

(i)Explicit Identifiers – it is a set of attributes containing information that identifies a record owner explicitly such as name, SS number etc.

(ii)Quasi Identifiers - is a set of attributes which is used to potentially identify a record owner when combined with publicly available data.

(iii)Sensitive Attributes - is a set of attributes which consists of sensitive person specific information such as disease, salary etc.

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Keywords- Genetic algorithms, Evolutionary program, Temporary memory storage replacement, Fuzzy logic.

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Due to trivial loading capability of temporary store recall, Scheme constantly want to call waste collection at definite time intermission. Sometime waste collection begged at coming of different objects. When allocation of space is become an issue. In place of spare of appropriate thing from cache we looked-for an proper Temporary replacement algorithm. This region is continuously invite peoples operational for organization optimization. In this paper we work for finding the capability of genetic fuzzy based techniques that could be enhancing performance of cache significantly by implementing.

II. A GENERAL VIEW FOR TEMPORARY STORAGE REPLACEMENT BY GENETIC ALGORITHM

Application of genetic algorithms and evolutionary software design is previously studied by various researchers. A. Vakali offered a model that announced the idea of applying genetic algorithms and evolutionary programming to Temporary replacement process[5]. The proposed models adapted the idea of evolutionary computation in order to preserve a consistent cache state of information objects. The aim was to expand the Temporary replacements state in terms of section of orientation. For improved consumption of the temporary storing replacement region, genetic algorithm methodology was considered for the temporary storing replacement process. The reasons for considering the genetic algorithms for temporary storing replacement are given below.

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By providing proper objective function to the genetic algorithm, one cans achieve significant improvements in cache performance.

III. A SURVEY FOR FUZZY LOGIC

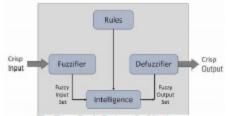


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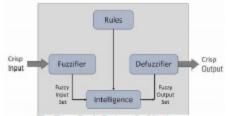


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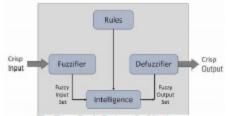


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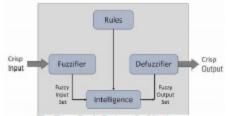


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"SECURING MQTT PROTOCOL IN IOT BY PAYLOAD ENCRYPTION TECHNIQUE & DIGITAL SIGNATURE"

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Survey of Intelligent Chat Bots Using Machine Learning

Prof. Anup W. Burange Prof. Yugandhara A. Thakare Prof. Harshal D. Misalkar

Abstract- Chat bots are intelligent systems that recognize user"s queries in natural language and reply accordingly in a discussion. It is like a virtual assistant, user feels like they are talking with actual person. They can respond in the same language, in which questions are asked. Chat bot would help to replicate the customer service experience with one difference that the customer would be interacting with a bot instead of a real person and yet get the queries attended and resolved. It can help to solve problems of daily life, by providing solutions to help desks, telephone answering systems, customer care centers. A chat bot is just a robot chat that imitates human conversations through voice commands, text chats, or both. It is a virtual dialogue in which one party is an online chatting robot. The artificial intelligence feature within talking robots has been used in different industries to convey information or execute tasks, such as determining the weather, making flight reservations, or purchasing products.

Keywords- Chat bot, NLP, Hybrid Approach

I. INTRODUCTION

Inside the artificial intelligence of a chatbot is machine learning and it is known as natural-language processing (NLP). In different fields machine learning can be applied to create various chatbot algorithms, while NLP has the capability to pick up conversational cadences and mimic human conversation. Generally a chat bot works by a user asking a question or initiating a new topic. Chat bots is nothing but software agents that simulate an entity usually a human. These kinds of software with artificial intelligence which allows them to understand users input and provide meaningful response using predefined knowledge base[1].

Applications

Customer service

One of the most obvious uses for chat bots is customer service and we might have encountered one of these bots already, without realizing it. Many websites, upon visiting, may have a unall live chat tool, present on home page to help you discover the information that you need. Historically, these have been prepared by human beings, but it is far more cost efficient now days to have bots fielding simple requirements. If a request happens to be difficult, it may always be forward to a human agent. Customer service chat bots are now getting to be used over the phone, replacing the past mechanical dial tom-based phone menus.

Education

Facebook developed a new trial Artificial Intelligence program that minicked Albert Einstein, appealing with users in natural conversation and speaking out ficts about his life as if you were having a discussion with the man himself. It was not completely immersive, and possibly didn't capture the complexities of his personality, but it show off the capability for chat bots to be use as educational tools. If chat bots can be programmed to behave like historical figures, or even provide users with basic information, they could make education more reachable and more attractive for most of the populations [6].

Assistance

Chat bots are being used as modes of personal assistance, and the best example here is still Siri (and other digital assistants lake it). These chat bots are usually linked to an operating system, and are capable of thousands of tasks, including playing music, performing online searches, and even buying products online. Smart speakers like Amazon Echo and Google Home are also becoming more popular, introducing more users to the reality of controlling their daily tasks through voice commands [5].

Developing a chat bot will offer a smart way out to solve the queries, give information as and when required, improve service and increase number of customers. It eliminates human factors included in organization and can give 24/7.

hours service to enhance productivity. Chat bot interfaces for customers which could be available on the web and on any hand-held devices are being developed. Customers can point out their queries in natural language and the chat bot can reply to them with correct answer. As there will be fast reply for



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Facebook developed a new trial Artificial Intelligence program that minicked Albert Einstein, appealing with users in natural conversation and speaking out ficts about his life as if you were having a discussion with the man himself. It was not completely immersive, and possibly didn't capture the complexities of his personality, but it show off the capability for chat bots to be use as educational tools. If chat bots can be programmed to behave like historical figures, or even provide users with basic information, they could make education more reachable and more attractive for most of the populations [6].

Assistance

Chat bots are being used as modes of personal assistance, and the best example here is still Siri (and other digital assistants lake it). These chat bots are usually linked to an operating system, and are capable of thousands of tasks, including playing music, performing online searches, and even buying products online. Smart speakers like Amazon Echo and Google Home are also becoming more popular, introducing more users to the reality of controlling their daily tasks through voice commands [5].

Developing a chat bot will offer a smart way out to solve the queries, give information as and when required, improve service and increase number of customers. It eliminates human factors included in organization and can give 24/7.

hours service to enhance productivity. Chat bot interfaces for customers which could be available on the web and on any hand-held devices are being developed. Customers can point out their queries in natural language and the chat bot can reply to them with correct answer. As there will be fast reply for



Implementation of Security Algorithm and A chieving Energy Efficiency for Increasing Lifetime of Wireless Sensor Network

Harshal Misalkar, Umesh Nikam(200), and Anup Burange(201)

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Abstract. The wireless sensor network is mainly needed for smart network functions or for emergency solutions where human interface is not possible. It is made of large number sensors for monitoring the physical and environmental situations e.g. Temperature, sound and motion etc. Main limitation of WSN is low power and minimum processing as well as they have to self organized as per the nequirements of user. If WSN are installed in remote location, it become to much difficult to recharge the lattery. In order to increase Lifetime of WSN sustainable consumption of power is required. This paper presents an approach for the cluster Head selection using basic information of node and objective functions. The proposed work minimizes the length of the packet by pre-cessing the data at the note. Moreover we emphasize on Node states witching mechanism which helps to increase the lifetime of WSN. With these things, the canfidentiality, integrity and aubertication of the communicated information becomes with. In this article, we have focused on a lightweight en cyption technique which encompasses faster encryption thereby, bringing down the computing time which increases the duration i.e. Efergum of winders sensor network. The introduction of both symmetric and asymmetric cryptography in the two phase hybrid encryption algorithm, check marks the main aim of overlogaphy, i.e., Confidentiality, Integrity and Authorticity. Moreover hybrid encryption attempts to exploit the advantages of both symmetric and asymmetric encryption.

Key-wordsz: Sensor nodes + Cluster heads + WSNs + Lifetime + Encryption Decryption

1 Introduction

Wireless sensor network is a field which contains large number of applications such as distributed system processing, embedded systems, wireless communications and have contributed a large revolution in Sensor Network (WSN) [7]. Wireless Sensor Network are a collection of small devices of low power, low cost, light weight sensor nodes working together to captare/monitor a particular event like temperature, pressure, movement etc [8]. Each sensor node sense the event, process it and communicate it with the other nodes present in same network [12]. Wireless sensor network are used in different application areas which includes home automation, healthcare, traffic control, industrial monitoring and many more [1]. A sensor node consists of power unit,



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Security in MQTT and CoAP Protocols of IOT's Application Layer

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Abstract. The Internet of Things (IoT) is a framework of interconnected computing devices mechanical and digital machines, internationally identifiable physical objects (or things) or people that are have unique identity and the ability to transfer data over a network without human-to-human or human-tocomputer interaction, their combination with the Internet, and their representation in the digital world. The accessibility and availability of cheap components of IoT devices enables a extensive range of applications and provide smart environments. These devices perform actuating and sensing tasks and identified through unique addresses. The IoT devices are connected to the Internet and expected to use the Constrained Application Protocol (CoAP) at the application layer as a main web transfer protocol. Message Queuing Telemetry Transport (MQTT) does not enforce the use of a particular security approach for its applications, but instead leaves that to the application designer. Therefore, IoT solutions can be based on application context and specific security requirements. MOTT is a Client Server publish/subscribe messaging transport protocol. It is lightweight, open, uncomplicated, and designed to make implementation more easier. These characteristics of MQTT make it perfect for use in most of the situations, including communication in Machine to Machine (M2M) and Internet of Things (IoT). In IOT there is major use of Wireless Sensor Networks (WSN) which connects virtual world to physical world. In this paper focus is given to application layer of IOT. In application layer two important protocols are MQTT and CoAP. Security mechanism is proposed in the paper for these protocok.

Keywords: MQTT · COAP · IOT

1 Introduction

The IoT is built on three main pillars related to the capability of objects which must have communication capability, computational capability and may have interaction capability:

(i) Communication capability: Objects in IoT must have a minimal set of communication capability. What we mean by this is not only a communication channel, but also everything related to it, in order to make an efficient communication, such as, an address, identifier, and name. The objects may have all these features or some of them [8].

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Enhance Energy Efficiency In Smart Phones

P. R. Nerkar R. R. Papalkar N. S. Band

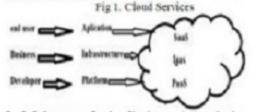
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Kowords. Smort devices, mobile cloud computing, doud computing.

I. INTRODUCTION

Cloud computing is the combination of technology such as cluster computing d/Grid Computing. It is also called as ondemand Computing.[1] on demand access to a shared pool of configurable computing resource eg. N/W servers, storage, applications & services.

Cloud Computing defined on the basis of services like Software as a Services(SaaS), Platform as a Services(PaaS) & Infrastructure as a Services.



SasS: Software as a Service: Cloud computing popular due to its Samures, like elasticity, Scalable, pay as you go, multitenant, etc. so in SasS model Customer need not be installed software, no need of purchasing software, customer can use his own system to run heavy software.

For example, If DTP business man start business & want DTP Software like Microsoft word, MS, influence point for that if he go traditional , so he first need updated companionable hardware for running this application & need to purchase legal license copy of that software & also have responsibility to upgrade regularly for the security aspects. Means in traditional way customer have entire security of all software as well as data. It is very typical to protect & used from any where of this software for this business, instead of this if this businessman go through Cloud Computing SaaS Service then Customer can access his data from any corner of the word, as well entire responsibility of software is of Cloud service provider(CSP).

For the purpose of accessing Cloud services it need:

- High Speed Internet Connectivity
- Updated Java Script Enable Browser

In Cloud Computing all Services access through internet & using application software called as Web Boowser, that's why there is no need of installation of software, as well no need of upgrading old system like p4 etc. In cloud computing customer only answerable for the operational of service i.e. data security & we can say 90% Provider is answerable for entire security of Software.

a PasS solution should include the following elements:

 A.PaaS development studio solution should be browser based.

 An end-to-end PhaS solution should provide a high productivity

integrated development environment (IDE) running on the actual target delivery platform so that debugging and test scenarios run in the same environment as production deployment.

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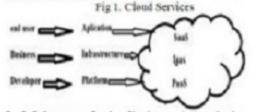
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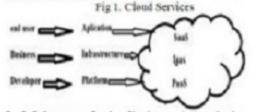
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Privacy issue in mobile cloud computing-Review

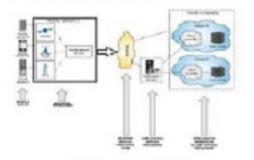
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Abstract: Today Meet of the People use smart application on their smart devices, but smart devices have limited resources and for avoid such limitation cloud comparing play key role, hence integration of smart devices with cloud services is essential. Usermostly use intensive application these generate confidential data & we need to uplead these data on cloud, hence privacy & security is the main integ. In this article we investigate the privacy & security of data in Mobile cloud computing.

Environds- Mobile cloud computing, security, Privacy, Cloud services.

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Cloud computing play key role in Mobile for extending the capability of mobile device. Cloud computing improve energy efficiency, scalability, Processing & storing capacity. Although mobile cloud computing can offer several important benefits such as extended barrery life and higher storage, scalability, and reliability, several key challenges continue to be a major impediment to mobile cloud computing adoption. These challenges include security and privacy, bandwidth and data transfer, data management and synchronization, energy efficiency, and heterogeneity that need to be resolved [1]. Mobile cloud computing (MCC) is a concept that refers to the integration of cloud computing into the mobile environment [2] In this way, MCC allows for a rich user experience; since client applications run remotely in the cloud infrastructure, applications use fewer resources in the user's mobile devices. Mobile cloud computing architecture is shown in figure 1.1



We investigate multiple research article for finding various challenges in mobile cloud computing for preserving privacy & security & other issue for research in Mobile cloud computing. To study these research architectures, we recognize several evaluation criteria. As well, we provide a holistic view of the current state of art in mobile cloud computing by presenting a quantitative analysis. The rest of paper is organized as follows in section II Literature Survey & compare abstract of different research article. In Section III. We present current state of art in mobile cloud computing specially in privacy concern. In section IV we present objectives & methodology to tackle with this issue. And finally we make some concluding remarks.

II. LITERATURE SURVEY

Mobile cloud computing has been an dynamic research area in recent years and numerous investigation have been published on this topic, conducted one of the first surveys that focus on mobile cloud computing issues. This survey presents an overview about how mobile cloud computing works, discusses some problems and possible solutions related to mobile cloud computing, and outlines the advantages of mobile cloud computing. Furthermore, the survey presents some research issues that needs to be addressed such as absence of standards, access schemes, security, and the need for elastic mobile applications [3].

Background of mobile cloud computing

Mobile computing depends on the ability to use computer resources through mobile devices. Moreover, mobile computing enables the execution of tasks that have been multitonally done by normal desktops. In general, mobile computing is supported by three basic concepts: hardware, Privacy issue in mobile cloud computing-Review

software, and communication [7][8]. Hardware constitutes devices (e.g., tablet PCs and smart phones) that can be utilized by users. Software includes applications designed and developed to execute tasks in a mobile environment and communication which includes networks and protocols that

Figure 1.1 MCC Architecture

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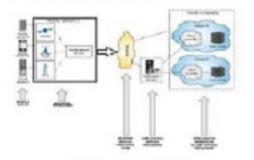
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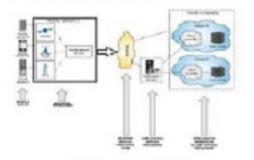
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I. INTRODUCTION

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We investigate multiple research article for finding various challenges in mobile cloud computing for preserving privacy & security & other issue for research in Mobile cloud computing. To study these research architectures, we recognize several evaluation criteria. As well, we provide a holistic view of the current state of art in mobile cloud computing by presenting a quantitative analysis. The rest of paper is organized as follows in section II Literature Survey & compare abstract of different research article. In Section III. We present current state of art in mobile cloud computing specially in privacy concern. In section IV we present objectives & methodology to tackle with this issue. And finally we make some concluding remarks.

II. LITERATURE SURVEY

Mobile cloud computing has been an dynamic research area in recent years and numerous investigation have been published on this topic, conducted one of the first surveys that focus on mobile cloud computing issues. This survey presents an overview about how mobile cloud computing works, discusses some problems and possible solutions related to mobile cloud computing, and outlines the advantages of mobile cloud computing. Furthermore, the survey presents some research issues that needs to be addressed such as absence of standards, access schemes, security, and the need for elastic mobile applications [3].

Background of mobile cloud computing

Mobile computing depends on the ability to use computer resources through mobile devices. Moreover, mobile computing enables the execution of tasks that have been multitionally done by normal desktops. In general, mobile computing is supported by three basic concepts: hardware, Privacy issue in mobile cloud computing-Review

software, and communication [7][8]. Hardware constitutes devices (e.g., tablet PCs and smart phones) that can be utilized by users. Software includes applications designed and developed to execute tasks in a mobile environment and communication which includes networks and protocols that

Figure 1.1 MCC Architecture



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R. R. Papalkar,

S.P. Thakare

diamate As we have substaliation continues to enlarge due to world population. According to recent research, a population is estimated to death by 2150 and with over 60% of people preferring date for bring in nearch of bener apportunitie. Keeping up with the technology afrementation because the way downed. With this objective, is esting the quality of hits the rabbilan to problem in differ need to be must to form a smore diff. The super-tool of the state of the bener of promged is to provide an entropy in tuck differ in the future. In this paper we investigate Eule of Artificial Intelligence, Could and Internet of Things in because must day neuros and tale. Exposed. Artificial Intelligence, Cloud, Internet of Things Smart City, Secure City and Sofe City.

I. INTRODUCTION

A. Shan City

As in everything, progress and adaptation require change, many existing urban infinitratures are outdated or simply can't keep up to meed with the advancements in technology and human meeds. According to Camplin, the city becomes, texam when investments in human and social capital and traditional and modern Information and Communication Technology (ICT) dual cumunable economic growth and a high quality of life, with a wise management of natural recoraces, through participatory governance. [1]. Mohanyy considers Smart City as a place where traditional networks and services are made more flexible, efficient, and sustainable with the use of information, digital and telecommunication technologies, to improve its operations for the benefit of its inhabitants. Smart cities are greener, safer, faster and friendlier [2] Based on those and more warted sources, we formed our own characteristics of Smart City, to set a base ground for our further research. For us, the Smart Cliv by the integration of technology and natural environment increases the effectiveness of processes in every field of its Americaning, in order to achieve sustainable development, safety and health of inhibitants with the aim for increasing the quality of life of citizens, new community and environment [3]. Smart cities also include a clean and sustainable environment and application of a smart solution, the focus begins sustainable

and inclusive development. With the shilty to harness technology leading to a spant solution.

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The term Al was coined in 1970, by John McCarthy, can be defined as the "the science and engineering of making involugence of machines and the branch of computer science that aims to crease it. All is study of how to make computers do things which at a measurer, people do better. Artificial Involugence sime to improve machine behavior in tacking such complex tasks. The importance of artificial intelligence is the ability to crease it never-ending thought process and collective that could solve our problems. Accomplishing this by funking of every possible solution. The utily into the development of artificial intelligence has long been hindered because of disinteent show by processant and capitalist able. Despite the many challenges, there have been significant creation in the field like-

- Fitted detection system.
- Advanced setting system
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Smart parking stratagem based on IoT

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Ms. Gayatri Jagnade

Abstrast- In this paper, we initiate a marrative stratagem that increases the efficiency of the current Smart parking stratagem and extend a network architecture based on the Internet-of-Things knowledge. Here the stratagem proposed a work that helps users without human intervention find a free parking room at the slightest asking price based on new performance metrics to calculate the user parking asking price by considering the distance and the total number of free places in each care park. This asking price will be used to offer a solution of finding an obtainable parking room upon a request by the user and a solution of suggesting a new car park if the recent car parking room is full. The flow of data in proposed algorithm helps improve the probability of successful parking and minimizes the user waiting time.

Erywordz-Slightest, Stratagem, internet of Things

I INTRODUCTION

In the development of traffic management systems, an intelligent parking system was created to reduce the asking price of hiring people and for optimal use of resources for carpark owners. At present, the frequent method of finding a parking room is manual where the driver usually finds a space in the street through coincidence and acquaintance. This practice is time perceptible and can cause useless efforts and may lead to the worst case of failing to find any parking room if the driver is driving in a city with high vehicle compactness. The alternative is to find a predefined car park with high competence. As such car parking may be far away from the user destination, this may not be an optimal solution. In recent years, research has used vehicle-to-vehicle and vehicle-toinfrastructure interaction with the support of various wireless network technologies such as radio frequency identification (RFID), Zigbee, wireless mess network, and the Internet. This paper intended to make available information about in close proximity for parking rooms to the driver and making reservation minutes earlier using supported devices such as smartphones or tablet PCs. in addition, the services use the ID of each vehicle in booking a parking room. However, the present intelligent parking system does not provide an overall optimal solution in finding an available parking space, does not solve the problem of load balancing, does not provide economic gain, and does not plan for vehicle-refusal service.

To solve the above mentioned problems and take benefit of the noteworthy progress in technology, the Internet-of-Things technology has created a revolution in many fields in life as well as in Smart parking stratagem technology. The present architecture propositions and introduces an effective cloudoriented SPS solution pedestal led on the Internet of Things. Our stratagem constructs each car park as an IoT network, and the data that include the vehicle GPS location, distance between car parking areas and number of free slots in car park areas will be transferred to the information hub. The information hub serves as a cloud server to calculate the asking prices of a parking request, and these asking prices are frequently updated and are accessible any time by the vehicles in the network. The SPS is based on several pioneering strategies and can automatically monitor and manage car parks. moreover, in the proposed stratagem, each car park can function autonomously as a established car park. This stratagem also implements a system prototype with wireless mode in an open-source actual computing platform based on Adriano with RFID technology using a Smartphone leading to the efficient communication and user interface for the control system as well as the vehicles to verify the achievability of the proposed stratagem.

II. RELATED WORK

In studies the authors proposed a new algorithm for treatment planning in real-time parking. At First, they used an algorithm to schedule the colline problem of a parking system into an offline problem. Secondly, they set up a mathematical model describing the offline problem as a linear problem. Thirdly, they designed an algorithm to solve this linear problem. At the end they evaluated the proposed algorithm using experimental simulations of the system. The experimental results flows timely and efficient performance. These papers don't mention the resource reservation mechanism the mechanism for assessing the resources system and the mechanism to guide vehicles to the parking space and the mechanism for handling situations when the request for service is deaied and don't calculate the average waiting time and average total time that each vehicle spendt on the system.





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Study of Tribological analysis of PTFE and its filler using **Taguchi** Approach

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Abstract. Polytetrafluroethylene (PTFE) is self-lubricating tough, waxy, non-flammable synthetic resin produced by the polymerization of tetrafluroethylene. Pure PTFE is widely used as bearing material and many such applications which is subjected to high wear rate, can be reduced by adding suitable fillers. PTFE exhibits poor wear and abrasion resistance, leading to early failure and leakage problem in the machine parts. This paper present the experiment 1 analysis of three composites (PTFE + 35% Carbon, PTFE + 35% Glass, PTFE + 35% Bronze) showing how properties of PTFE can be improved by the addition of filler content. The effects of varying load, sliding distance, sliding velocity and filler content on wear in PTFE are studied. The results of experiments are proved that the wear is strongly influenced by the composition of filler content.

Keywords: PTFE composite, Pin-On-Disc Apparatus, Orthogonal Array, Minitab.

1 Introduction

Polytetrafluroethylene (PTFE) because of its properties like resistance to chemical hit, high melting point and low frictional coefficient, it is a popular polymer solid lubricant. It is used in many applications as bearing, seals, gaskets, vessel linings, pump interiors, washers, rings, spacers, dip tubes and well-drilling components. By the addition of suitable fillers and because of the relative softness the load carrying capacity and its resistance to wear of PTFE might be enhanced. It available in white or grey color[1].

Researchers were tried several fillers in combination with this plastic, including disulphide, carbon, bronze, fiber glass, graphite, silicon, molybdenum, titanium dioxide, silver, copper, tungsten and molybdenum [2]. Polytetrafluroethylene (PTFE) is an ideal bearing and polymer based engineering material having high rate of wear when rub against a hard material but coefficient of friction is low. H. Unal et al. [2], study and analyze the effect of set speed and load on the friction and wear behaviour of pure Polytetrafluroethylene (PTFE), bronze and carbon filled PTFE polymers, glass fiber reinforced. Adding glass fiber and bronze in PTFE, hard, waxy non-flammable synthetic resin produced by the polymerization of tetrafluroethylene Known as Teflon, Polyflon, Fluon, and Hostaflon.

Deepak Bagale et al. [3] study the influence of load, distance of sliding and sliding velocity on friction and wear of PTFE and PTFE composites. After adding carbon filler and bronze to the plain PTFE the results show the decreases wear rate considerably and coefficient of friction increases slightly. For 40% carbon filled PTFE the wear resistance was high than for 40% bronze filled PTFE

Productivity Improvement Through Ergonomics Approach

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Dr. H M. Deshmukh

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Abstract—Stamping of company logo, name and specification of grinding wheel is laborious work and also lower down productivity by some percentage, there is scope of mechanization of the task to enhance the resource utilization in plant, reduce cycle time, decrease cost per production. With reduction in labor the employee moral will grow leads to enhancement of productivity and so the profit to the organization. The productivity of the process is improve by 1. Mechanization 2. Standardization 3. Workstudy In mechanization of the process a stamping machine is suggested which when used will increase productivity and reduce energy expenditure of labour. Standardization part included of various changes regarding workplace environment and working procedure. workstudy part comprised of the suggestion about effective and efficient method of doing work by identifying the most ineffective one.

The process can be upgraded by any of the recommended changes in last chapter of the thesis and take the advantage of productivity improvement and improve employee morale.

I. INTRODUCTION

The problem which we are trying to solve is to make stamp on materials or work pieces very maturely. In many industries the spray painting work is done, but there is a lot of wastage of paints and lot of workers are required in the industries to perform that operation. Again labour intensive work causing a regular problems based on fatigue and muscular damage. This traditional procedure are ergonomically very back dropped. So, the study explained below is endeavour to innovative approach to find solution to this existing problem. Which will reduce time for stamping, save energy and human effort, make work safe and lessen efforts to great limit

II. RECOMMENDATION FOR ACTION

In many cases, the person who solves the problem is not the one who will either use the recommended solution or give final approval for its adoption. Therefore, after the preferred solution has been found, it must be communicated to other persons. The most common form of communication is the written or oral report. In some cases, a formal and carefully prepared presentation is needed, including the use of charts, diagrams, photographs, three-dimensional models, or working models.

In any event, the presentation should be made in a logical and strait forward manner. It should be easy to follow and to understand. The source of all facts should be indicated, and any assumptions should be clearly stated. A concise written summary should be a part of every report. In the industrial situation, the complete cycle might include a follow-up to ensure that the proposed solution has actually been put into effect. Then an audit or a check from time to time might be made to determine what difficulties were being encountered and to evaluate the over-all results of the installation. It is desirable to know whether the actual operating method is producing the results claimed for it in the proposal.

To continue further, a re-evaluation or restudy of the method might be made with the purpose of finding further possibilities for improvement, and so the problem-solving cycle would be repeated. In most business and industrial operations there is no final solution to a problem. A given solution may be put into effect and used until a better one can be found.

List of ideas to improve productivity in stamping shop:

- 1. Workstudy
- 2. Mechanization
- 3. Standardization

WORK ELEMENT

The Pie chart above shows the work elements of traditional process of stamping in which findings are shown with average percentage of cycle time as made with ten consecutive observations. While though the Stamping machine is comprised of only two elements i.e. loading and unloading and whole process is continuous. The complete cycle operated on machine in 8.958 see which is much lesser and required human for feeding and stacking arrangement only.

Review of Design, Analysis of Four Wheeler Alloy Material Rim using FEA Method under Cornering Fatigue Test

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² Associate Professor, Mechanical Engineering Department, V.B.K.C.O.E.Malkapur, M.S. India
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ABSTRACT

Automotive wheel, as a critical component in the vehicle, has to meet the strict requirements of driving safety. Traditionally, the new designed wheel is tested in the laboratory for its life through an accelerated fatigue test before the actual production starts. However, a physical prototype test time lasts at least 7 days and an average design period is 6 months or more depending on the requirement, so the time to test and inspect wheel during development is very consuming. At the same time, because steel wheel is designed for variation in style and has very complex shape, it is difficult to assess fatigue life by using analytical methods. In the last decade, many scholars and wheel manufacturers have been taking increasing attention to numerical analysis of wheel fatigue life.

Development of finite element analysis model of Wheel Rim to get a better understanding of the influences of stress condition on the mechanisms of the crack initiation and propagation in steel wheel. A Multi-objective analysis concept is carried out to optimize the weight of the Rim. Also, to determine whether the moment is applied at mounting holes or at Hub also. Work is carried out in steps by step manner. We tried to minimize the number of Experiments and levels of Experiments.

Keyword : - FEA, CAD, DFCT,CFT

1. INTRODUCTION

In auto industries, wheels are considered as most critical components as it play a vital role in human safety. From past decades, wheel producers are using new materials and manufacturing technologies in order to improve the wheel's aesthetic appearance and design. Steel wheels are widely used for wheels due to their excellent properties, such as lightweight, good forge ability, high wear resistance and mechanical strength. Ensuring the reliability and safety of wheel is very important. [1]

Analysis of the rims consists of numerically analyzing the stress levels that rims experience during operating conditions. These stress levels will then serve as input parameters for a fatigue analysis of the rims to evaluate their respective fatigue life. Additionally, the load bearing capacity of the bolt pattern will be evaluated for conditions of severe loading. The finite element (FE) method is implemented for all rim analysis. The reliability of FEA approach is based on their previous experience in fatigue analysis studies. The magnitude of the static load and pressure contributes to increasing the stresses on the rim components. [2]

The wheel with tires takes full load, provides the cushioning effect to vehicle by absorbing vibration of the road surface unevenness and also assist in steering control. The alloy wheel has better aesthetic looks and easy of manufacturing than disc and wire wheel. The main requirements of an automobile wheel are;

Design and Analysis of Four Wheeler Alloy Material Rim using FEA Method under Cornering Fatigue Test

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- i. It should be as light as possible so that unsprung weight is least
- ii. It should be strong enough to perform the above functions.

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Solar Powered Stirling Engine

Mohit P. Vyas, Raj S. Khatri, Prof. S. G. Bahaley PRMIT&R, Badnera

ABSTRACT

This Research work was set out to with an objective to explore the practicality of power production from a Hybrid Stirling engine. This would include research, design and fabrication. Hybrid here meant that the engine model would run on different sources of sufficient external heat to generate the desired motion. This was done to supplement the government's efforts to provide affordable electricity to rural and marginalized parts of India.

With this end in sight, a thorough and comprehensive research was carried out on the working and configurations of Stirling engines. Research sources included the internet, engineering books on thermodynamics and engine machines as well consulting the project supervisor.

From the theoretical analysis, the Stirling engine designed had and efficiency of about 7.7%. This was pointed out that there were energy losses, which were attributed to friction and the engine having some out-of-balance masses. To rectify this, it was proposed that a kinematic assessment of the engine be carried out to eliminate any out of balance masses.

Upon completion of the project, it was recommended that more investment in the Stirling engine project needs to be made. Emerging economics such as India have turned to use of Stirling engines to provide electricity to the rural poor. In addition, developed economics such as the United States are taking advantage of this technology to generate electricity in 'solar farms' using large solar powered Stirling engines.

Keywords

Solar, Engine, Stirling, Hybrid, Efficiency

INTRODUCTION

This project was set out to explore the practicality of power production from a Hybrid Stirling engine. This would include research, design and fabrication.

"Hybrid" in this sense means that, unlike conventional Stirling engines that are designed with one mode of heating in mind, our engine model would run on different sources of sufficient external heat to generate the desired motion. In carrying out this project, we were focused on creating an engine model that could utilize heat from biomass, as well as take a "green tum" and take advantage of solar heat by use of solar concentrators.

Our target beneficiaries would be Indians living in the marginalized areas with little hope of getting access to electricity. Seeing as these people use biomass for their ordinary energy needs, the success of this project would afford these people a chance to have sustainable subsistent power in their homes.

A Stirling engine is a heat engine operating by cyclic compression and expansion of air at different temperature levels such that there is a net conversion of heat energy to mechanical work.Like the steam engine, the Stirling engine is traditionally classified as an external combustion engine, as all heat transfers to and from the working fluid take place through the engine wall. This contrasts with an internal combustion engine where heat input is by combustion of a fuel within the body of the working fluid. Unlike a steam engine's (or more generally a Rankine cycle engine's) usage of a working fluid in both of its liquid and gaseous phases, the Stirling engine encloses a fixed quantity of air.¹

As is the case with other heat engines, the general cycle consists of compressing cool gas, heating the gas, expanding the hot gas, and finally cooling the gas before repeating the cycle. The efficiency of the process is narrowly restricted by the efficiency of the Carnot cycle, which depends on the temperature between the hot and cold reservoir. IRA-International Journal of Technology & Engineering ISSN 2455-4480; Vol.10, Issue 03 (March, 2018) Pg. no. 23-40.



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Design and Development of Plastic Filament Extruder for 3D Printing

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Design of Bicycle Handle using Ergonomic Aspects A Review

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Abstract- The name is also called a bike of rural people. Bicycles have evolved significantly over the past decades in pace with technology of the past decides of the past decides. pace with technological advancement. However the comfort of cyclists has not much attempted in many designs. Although Although ample research has been reported on comfort for other means of transportation, cyclist's perception of comfort has been reported on comfort for other means of transportation, cyclist's perception and be comfort has received scant attention in the scientific literature. This paper discusses the ergonomic aspects that can be incorporated in the scientific literature. incorporated in the design of a bicycle handle. The first step is to determine which factors contribute to comfort when riding riding a bicycle which results in human performance and fatigue. It has been found out by means of a survey with enthusiast cyclists that comfort is influenced by factors related to the cyclist (driver position, handle adjustments, body parts). This parts). This paper classified into three parts, in the first part the ergonomic aspects of bicycle handle, in second the factors responsible for fatigue and in the third analysis for the comfort positions. The most of the researchers presents there work in change scating position whereas this work focuses on the comfort position of bicycle handles.

IndexTerms-Bicycle, Ergonomic study, comfort positions, Fatique.

I. INTRODUCTION

A bicycle or bike is a vehicle composed of two wheels held in a frame one behind the other, propelled by pedals and steered with handlebars attached to the front wheel. Karl von Drais of Paris invented the first bicycle in 1817[56,57]. The Draissienne was a steerable bicycle[30]. It was almost entirely made of wood, had no pedals, and was propelled down the street by riders who would push their feet against the ground. The record speed was 15 km/h; [1] Ergonomics is the investigation about humans and work, especially when optimizing the physical contact between humans and engine [100].

Even in this 21st century, the century of modern machines and fast moving automobiles, the cycle has its own identity and importance[54]. Apart from the fact that it is eco-friendly and economical, helping the riders to keep fit and healthy[89] There have been several changes in the bicycle design since its inception, many attempts were made over the years[78]. Today various designs and styles of bicycles have been introduced like sport/road bicycles, mountain bicycles, BMX (Bicycle Motocross) cycles etc. Throughout the world bicycles are used by school students. University students to go around in the University campus, proletariats to go to work and old aged people for physiotherapy[55]. It is important to keep in mind the widespread use of bicycles necessitates the design should match the anthropometric data to be ergonomic[84]. It is also important to keep a check on the production costs of the bicycle because at is generally considered an economic product[4]. It is crucial to ensure a good industrial design procedure for the bucycle while making substantial ergonomic changes in the conceptual design[60]. An effort has been made to identify the possible inconvenience caused to the rider and propose a design to solve the problems reducing the inconvenience of the bicycle riders [99]. A concise overview of relevant studies is presented here[73]. According to three distinct areas contribute to comfort when riding a bicycle i.e.; environmental, mechanical and biomechanical factors, and physiological factors [96].

A bicycle is a pedal driven , human-powered vechicle with two wheels attached to a frame, one behind the other. Bicycle is a mode of transportation. It is a good exercise machine[74]. It can move around or get good exercise. Complety it is a good source of excercise. Comfort when riding a bicycle can be identified through a number of key elements such as seats, handles, paddle and bicycle frame design[9,10]. More specifically, the goal is to look at the notion of dynamic comfort[55]. Bicycle is a popular and economical mode of human powered transportation[52]. This also enables it to be used as effective equipment towards fitness and rehabilitation[11]. However, bicycling domands one to bend forward while pedaling, this prolonged forward flexion posture may increase the risk of chronic injuries such as musculoskeletal disorders (MSD), compression neuropathies, and so on[13]. Hence, proper bicycle design is necessary to reduce MSD and enhance comfort for rider[79]. Cyclists adopt a roundback or flat-back posture to reach the handlebars by flexing their pelvis and spine. Cyclists who maintain a prolonged awkward posture experience pronounced stress on their shoulder, neck and low back pain[14].

The term 'comfort' might be used to describe a feeling of contentment, a sense of cosmes or a state of physical and mental wellbeing. In engineering term, comfort is generally presumed to be a definable human condition or attribute, with each new innovation bringing society closer to the achievement of ideal indoor conditions[[61,76]. Conifort is a concept of rather subjective nature but it can generally be defined as the absence of pain and any other similar nuisance and is usually associated



Design and Analysis of Liquid Cooled Cold Plates using **CAD** Modeling

Pratik N. Raut¹, Prof. Mahendra P. Nawathe² PG Student, ²Associate Professor Department of Mechanical Engineering, Prof. Ram Meghe Institute of Engineering & Technology, Badnera, Maharashtra, India

ABSTRACT

invented. Cold plate is liquid cooling system used in

electronic components. In present work, the modification is done in design of cold plate to reduce its cost and also to increase the heat dissipation rate, 1, Formed Tube Cold Plate (FTCP) Water at various flow rates is supplied for given power inputs and heat removing capacity of each flow rate at that particular heat load is calculated. It is found that water is best working fluid for all flow rates. Methanol and acetone are best suited for high mass flow rates. The cold plate is used to provide a to which individual electronic "cold wall" components are mounted. The design and performance evaluation of a cold plate follows a prescribed procedure that depends on the heat loading and whether the heat loading is on one or two sides of the cold plate. Due to transmission of applied current and voltage sometimes the temperature of the circuit plate goes increasing. This temperature limits the electronic operation. Thus it is necessary to control such temperature, in order to maintain speed of electronic devices.

Cold Plates, KEYWORDS: Liquid Cooling. Temperature, Heat Transfer, Electronic Application

1. INTRODUCTION

In heavy electronic equipped industries, high temperatures are attained in working conditions. The safe temperature limit for the electronic equipment's 90°C. This raise in temperature will take an adverse effect on the equipment's and sometimes fails at these conditions. This is due to the electronic equipment's life time will be reduced. So the equipment maintain safe temperature condition which is below 90°C. maintain the desired condition liquid cooling is

For cooling electronic systems new techniques are provide effectively. Liquid cooling is a convective heat transfer process.

The cold plates are classified as follows:

- 2. Deep Drilled Cold Plate (DDCP)
- Machined channel Cold Plate (MCCP) 3.

Form tube liquid cold plates ensure minimum thermal resistance between the device and the cold plate by placing the coolant tube in direct contact with the device base plate. In this design, copper plate is generally used, although aluminum is sometimes employed in low power applications. In Deep drilled cold plate the heat flux and power dissipation increases, the contact resistance of the plate and the tube wall become unacceptably high. In this design, deep holes are drilled in the plane of the substrate plate. In Machined channel cooling plate, the heat flux increase, it becomes necessary to improve the thermal performance of the channels. In this design, channels are machine-cut into the base plate and a cover is soldered in place to form the flow passages. In the literature thermal analysis of form tube, machined channel and Deep drill cold plates at different working environment has been done. This shows there is a lack of study in the behavior of three different cold plates at same working environment.

In this work the Optimization is achieved by comparing the thermal characteristics of three types of cold plates at same working environment and proposed the best method that can be adopted in different industrial equipment for safe conditions. The Finite Element Analysis and experimental work has been carried out to validate the results. The

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Second Law Analysis of Diesel Engine by Using Different Ignition Delay Models

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Abstract: A mathematical model is developed for comparing different ignition delay models for compression ignition engine fuelled with the diesel under different operating load. The model developed is single zone zero dimensional model. The different angine fuelled with the diesel under different operating load. The model developed is single zone zero dimensional model. The different delay models are used to compare the different. Once the heat release rate is modelled the pressure and temperature are predicted for every crank position. The diesel engine is considered as closed system for thermodynamics analysis. The cylinder gaves are assumed as ideal gas the different developed ignition delay model is validated against the data obtained by experimentation at laboratory. This study again elaborated how properties of cylinder charge gases varying with the crank angle position. By performing the experimentation at diaboratory. This study again engine, experimental results have been compared with models given by Arrhenious, Wolfer, Watson and Hardenberg. It is found that experimental results are in good agreement with Arrhenious model. Heat transfer to the cylinder wall from cylinder gas has taken into account to find the gross heat release rate. Heat transfer coefficient correlation given by Hohenberg has been used to calculate convective heat transfer. Radiative heat transfer has been neglected. For predictive analysis two functions have been used, one for premized part and Wiebe function for diffusion part. Different ignition delay correlation to predict start of combustion has been used to e. Watson, Wolfer, Arrhenius and Hardenberg and Hase. Simulated curve for ROHR has been tuned with experimental curve for various load conditions to find out the shape parameters of the functions. Correlation for these shape parameters are modified with adjusting coefficients, using the least square curve fitting method. The properties of in-cylinder gas have been culculated by various polynomial equations which are the mai

Keywords: Ignition Delay Model, zero dimensional model, compression ignition engine, thermodynamics analysis, etc

1. Introduction

Investigations and reports that have used the second law of thermodynamics to analyze the combustion process in internal combustion engines have been published for more than 40 years. Representative results are presented for both compression-ignition and spark-ignition engines to illustrate the type of information obtained by use of second law analysis and instantaneous values for the engine availability or exergy and the overall values for energy and availability are described. A brief description of most of these methods is provided in this work. The use of second law analysis is not necessarily intended for general performance computations but for understanding the details of the overall thermodynamics of engine operations. The second law of thermodynamics is a powerful statement of related physical observations that has a wide range of implications with respect to engineering design and operation of thermal systems. The second law can be used to determine the direction of process, establish the condition of equilibrium, to specify the maximum possible performance of thermal systems and identify those aspects of processes that are significant to overall performance. Related to the analysis based on the second law of thermodynamics is the concept of availability or exergy.

Availability or energy is a thermodynamic property of a system and its surroundings and is a measure of the maximum useful work that the given system may obtain as the system is allowed to reversible transition to a thermodynamic state which is in equilibrium with its environment. A very important aspect of availability or exergy is the fact that a portion of a given amount of energy is available to produce useful work, while the remaining portion of the energy is unavailable for producing useful work. During the combustion process, thermal, mechanical and chemical processes are very important for availability analysis. An example of the thermal aspect of availability analysis is an ideal case where the system temperature is above the environmental temperature, and the availability from the system could be converted to work until the system temperature, equaled the environmental temperature while the remaining energy is an unavailable part of the energy. The mechanical aspect of availability analysis is a system which is at pressure above the environmental pressure. By utilizing an ideal expansion device, the energy of the system could be converted to work until the system pressure equaled the environmental pressure. A third aspect of availability analysis is a chemical aspect, which considers the potential to complete work by exploiting the concentration differences of the various species relative to the related concentrations in the environment. The consideration of the species concentration component of availability is often neglected due to the practical difficulties of implementing such a system and the relatively small amounts of work produced. Availability or exergy is not a conserved property and can be destroyed by irreversible processes such as heat transfer through a finite temperature difference, combustion, friction and mixing processes. The majority of different reports and studies have investigated the influence of heat transfer, combustion, friction and mixing processes on availability destruction suggesting different options to reduce energy degradation and increase portion of energy available for useful work. [2]

To interpret the second law analysis results, the desired output is brake work and increases in this quantity (for a given fuel flow) represent improved performance. All other availability terms represent losses or undesirable transfers from the system; decreasing these terms constitutes an improvement. These undesirable available energy transfer and destruction terms fall into five categories: (1) heat

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REVIEW OF RESEARCH

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INTERACTING DARK FLUIDS IN LRS BIANCHI TYPE-V UNIVERSE

V. G. Mete¹, P. B. Murade², A. S. Bansod³ and V.M.Ingle⁴ ^{1,4}Department of Mathematics, R.D.I.K & K.D. College, Badnera - Amravati, INDIA. ²Department of Applied Science, PRMIT&R, Amravati , INDIA. ³Department of Applied Science, V.Y.W.S. Polytechnic, Badnera , INDIA.

ABSTRACT:

This paper deals with the study of interacting holographic dark energy (DE) and cold dark matter (CDM) in Locally Rotationally Symmetric (LRS)Bianchi type-V. Thesolutions have been obtained for Einstein's field equations. Also, the behaviors of the obtained solutions have been discussed.

KEYWORDS: LRSBianchi types-V space-time;statefinder parameters;interacting dark fluids.

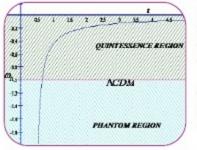
1. INTRODUCTION

The universe is expanding in an accelerating manner indicated by recent observations of SNeIa (Type Ia supernovae) [1, 2]. Many observations of CMB (cosmic microwave background) [3, 4]in coherence with LSS (Large Scale Structure) [5, 6] denote that the universe is spatially flat. An exotic component is known as 'Dark energy' (DE) having huge negative pressure dominated the universe. Analysis of cosmological observations under the study of Wilkinson Microwave Anisotropy Probe (WMAP)[7-10] state that $\frac{2}{3}$ rd

of the total energy of the universe is occupied by dark energy whereas remaining $\frac{1}{3}$ is taken up by dark

matter (DM) and baryonic matter(ordinary matter). The term 'Dark Energy' is specially used for the unknown form of energy which is not detected directly and do not cluster as other ordinary matter does. This observation can be explained by assuming that at large scale the Einstein gravity model of general relativity (GR) break down and a more general action describes the gravitational field. The simplest component of DE which is supported by current observational data is the cosmological constant (Λ) having equation of state $\omega = -1$. For the satisfaction of the current value of DE, it should be fine-tuned [9-11].

In recent years many dark energy models have been studied including quintessence scalar field models [12, 13], tachyon field [14, 15], K-essence [16-18], phantomfield [19-21], Chaplygin gas [22, 23], Quinton[24] and so on [25-27]. Various DE cosmologies (isotropic) having early deceleration and delayed acceleration was previously reviewed by Bamba et al. [28]. The increasing expansion with the phantom /quintessence characteristic in detail together with cosmography test has been represented by cosmological model like Holographic dark energy, coupled dark energy, scalar field theory, f(T) gravity, f(R,T) gravity,



f(R) gravity and ACDM cosmological model. These models have been studied by Bamba et al. [28]. The scalar tensor theory of gravitation consisting of five dimensional DE was thoroughly investigated by Reddy et al. [29].

Toinvestigate the problem of dark energy, holographic dark energy model provides a more simple and reasonable frame. The principle known as the holographic principle [25,27, 30-31] emerged as a new paradigm in quantum gravity in relation to black hole physics, it was

Available online at www.lbp.world



Interacting Dark Fluids in LRS Bianchi Type-II Universe

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Abstract

At the present paper, Locally Rotationally Symmetric (LRS) Bianchi type-II cosmological model with interacting dark matter (DM) and holographic dark energy (DE) have been discussed. In order to obtain solutions of the field equations, it is assume that the shear scalar (σ) is proportional to expansion scalar (θ). To have a general description of holographic dark energy and dark matter, a phenomenological parameterization of dark energy in terms of its equation of state (EoS) has been taken. Statefinder diagnostic pair *i.e.* {r, s} is adopted to separate other existing dark energy models from this model. Here we discuss two models: when n = 1/2, we obtain acyclic universe and the model converges into phantom region whereas when n = 3/2, we get a expanding universe and the model converges into quintessence region. Some important geometrical and physical features regarding to this model have also been studied.

Subject Areas

Particle Physics

Keywords

LRS Bianchi Type-II Space-Time, Interacting Dark Fluids, Statefinder Parameters

1. Introduction

The phase of accelerating expansion of the universe is indicated by Type Ia Supernovae (SNeIa) [1], [2], the Sloan Digital Sky Survey (SDSS) (Seljack *et al.* [3]) and Wilkinson Microwave Anisotropy Probe (WMAP) [4]. The astrophysical



Research Article

Bianchi Type-I Dark Energy Cosmology with Power-Law Relation in Brans-Dicke Theory of Gravitation

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We have studied the interacting and non-interacting dark energy and dark matter in the spatially homogenous and anisotropic Bianchi type-I model in the Brans-Dicke theory of gravitation. The field equations have been solved (i) by using power-law relation and (ii) by assuming scale factor in terms of redshift. Here we have considered two cases of an interacting and non-interacting dark energy scenario and obtained general results. It has been found that for suitable choice of interaction between dark energy and dark matter we can avoid the coincidence problem which appears in the ΛCDM model. Some physical aspects and stability of the models are discussed in detail. The statefinder diagnostic pair, i.e., $\{r, s\}$, is adopted to differentiate our dark energy models.

1. Introduction

The recent cosmological observational data of Type Ia Supernovae (SNeIa) (Riess et al. [1]; Perlmutter et al. [2]), Cosmic Microwave Background (CMB) (Bennett et al. [3]; Spergel et al. [4]), Large Scale Structure (LSS) (Tegmark et al. [5, 6]), the Sloan Digital Sky Survey (SDSS) (Seljak et al. [7], Adeleman-McCarthy et al. [8]), Wilkinson Microwave Anisotropy Probe (WMAP) (Knop et al. [9]), and Chandra X-ray observatory (Allen et al. [10]) strongly suggests that our universe is dominated by a component with large negative pressure called dark energy (DE).

The study of DE is possible through its equation of state (EoS) parameter $\omega^{de} = p^{de}/\rho^{de}$ which is not necessarily constant, where p^{de} is the pressure and ρ^{de} is the energy density of DE. The DE candidate which can simply explain the cosmic acceleration is a vacuum energy ($\omega^{de} = -1$), which is mathematically equivalent to the cosmological constant (Λ). The other conventional alternatives, which can be described by minimally coupled scalar fields, are quintessence ($-1 < \omega^{de} < -1/3$), phantom ($\omega^{de} < -1$), and quintom (that can cross from phantom region to quintessence region). From observational results coming from SNe Ia data (Knop et al. [9]) and combination of SNe Ia data with CMBR anisotropy and galaxy clustering statistics (Tegmark et al. [8]), the limits on EoS parameter are obtained as $-1.67 < \omega^{de} < -0.62$ and $-1.33 < \omega^{de} < -0.79$, respectively. Recently, DE models with variable EoS parameter have been studied by Ram et al. [11, 12], Katore et al. [13], Reddy et al. [14], and Mahanta et al. [15].

Interaction between DE and dark matter (DM) leads to a solution to the coincidence problem (Cimento et al. [16]; Dalal et al. [17]; Jamil and Rashid [18, 19]). By considering a coupling between DE and DM, we can explain why the energy densities of DE and DM are nearly equal today. Due to interaction between two components, the energy conservation cannot hold for the individual components. Recent observations (Bertolami et al. [20]; Le Delliou et al. [21]; Berger and Shojaei [22]) provide the evidence for the possibility of such an interaction between DE and DM. Zhang [23, 24], Zimdahl and Pavon [25], Pradhan et al. [26, 27], Saha et al. [28], Amirhashchi et al. [29–33], Adhav et al. [34, 35], and Fayaz [36] have investigated various cosmological models with interacting DE.

The Brans-Dicke theory [37] is a generalized form of general relativity and it is one of the most enchanting D. V. Kapse, Department of Mathematics, Sant Gadge Baha, Amavati University, Amravati 444 602, India. E-mail: dipit.kapse@gmail.com N. M. Tade, & S. P. Saraogi Department of Mathematics, PRMITR&R, Bahnera-Amravati-444 701, India. nyanu24ade@gmail.com, shalakasaraogi@gmail.com

Abstract:

In this paper, we have studied the solutions of locally rotationally symmetric (LRS) Bianchi type II cosmological models filled with perfect fluid and dark energy (DE) components in Lyra manifold. The exact solution of Ebstein's field equations are obstain by assuming the expansion scalar (0) in the model is proportional to the shear scalar(cf). It has been found that the displacement vector fi between the cosmological term A in the normal gauge treatment and the solutions are consistent with recent observations.

Keywords: Dark energy, LRS Bianchi type II models, Lyra's manifold.

Introduction:

The accelerating expansion of the universe is driven by mysterious energy with negative pressure hown as Dark Renzy (DE). This was observed by She Ia (Perhumet 1999), WAM-(Bennett 2003), SDSS (Tegmark 2004a, 2004b) and X-ray (Allen 2007). This acceleration is ritgered by more than 70% of dark energy. There are many proposito to explain the dark energy (DE). The nature of dark energy as well as dark matter is unknown and many radically different models have been proposed, such as, a tiny positive cosmological constant, quantescuese (Caldwell et al. 1998; Steinhardt et al. 1999; DGP branes (Drail et al. 2000; Deffrayet 2001), the non-linear ER) models (Capozziello et al. 2003; Carroll et al. 1904; Nogi Deffrayet 2001), the Since the observation of small anisotropies in the microwave background radiation (CMB) (Dankley 2009) and the large scale structures (Tegmark. 2004a) it becomes clear that a pure Friedmann-Lematitier Robertson-Walker (FLRW) cosmology could not explain all the properties of universe as special cases.

Einstein proposed his general theory of relativity, in which pravitation is described in terms of geometry: in movized the geometrization of other physical fields. One of the first attempts in this direction was made by Weyl (1918) who proposed a more general theory in which gravitation and electromagnetism is also described geometrically. Later Lyra (1951) suggested a modification of Riemannian geometry by infroducing a gauge function which removes the non-integrability condition of the length of a vector ander parallel transport. Hafford (1922) pointed on that the constant displacement vector field of in Lyra's geometry plays the role of a cosmological constant in the normal general relativistic treatment. Hafford (1974) showed that the scientarient based on Lyra's geometry profess the same effects.



Anticipation of Distributed denial of service Attack Using Four- Tier CAPTCHA

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Abstract-DDOS (Distributed Denial of Service Attack) found to be one of the leading menace of availability in cloud computing Service. In denial of service attack by utilizing bandwidth or flood of network, the attacker restrict the access of original users. And hence substantiation is necessary to make a distinction between original user from illicit users, which can be performed through strong cryptographic verification (for a private server) or graphical Turing tests. By tracing the IP address of that server, the attacker take away all the right of entry over that application make that user out-of-the- way, where the substantiation & security is performed by Graphical Turing examination for public server, which is widely used to tell apart human users from robots through their retort. A CAPTCHA is a type of challenge-response test used in computing to identify the user whether he is human or not. The CAPTCHA technique that we have related here requires that the user enter the letters of a prearranged mystified image, sometimes with the addition of an prearranged mystified letters or digits that appears on the screen. The main reason behind this CAPTCHA to explore security in cloud computing network. In result the user get ease of access to service without any stoppage. Because the test is administered by a computer system, in opposite to the standard Turing test that is controlled by a human, a CAPTCHA is sometimes described as a reverse or Graphical Turing test. This term is hazy because it could also mean a Turing test where the participants are endeavoring to prove they are the computer.

Keywords— Cloud computing services, Security flaws, Distributed Denial of Service, Prevention of DDOS, CAPTCHA

1. INTRODUCTION

Cloud Computing services are nothing but assembly of resources and can utilized through internet. It is well known word in top IT companies like Google and yahoo develop cloud computing system and related products for customer. There are few impediments for user to agree to cloud computing network as customer has to belief on third party for its confidential information. This study aims to know the most hot security issue in cloud computing service. We will thrash out security necessities and its allied issues in cloud computing.

A. Brief of cloud computing

It proffer high yield with less outlay at the same time. Shortage in security is the chief stumbling block in wide acceptance of cloud computing. Cloud computing has many issues like sheltering information, and examining the consumption of resources and provide services to its certified user. The wide acceptance raised security risks along with the uncountable benefits. [1].Cloud computing offers 3 different kinds of services:

1. Software as a Service

SaaS are applications over Internet. As a rule the user can utilize these applications using a web-browser. Users are intangible about the hardware and software that is using and simply access to an interface through a web browser and from there he has admittance to some useful data and functionalities. It's dedicated to current users; an case in point to this sort of services can be Google Docs.

2. Platform as a Service

PaaS are paying attention to the exploitation of applications or services online letting to the developer manage the hardware or software necessary, including also a solution stack. This service embraces all the lifecycle of the exploitation of application or service such as design, implementation, testing, exploitation, collarging with databases, etc.

There are three characteristic points in this services

- Services for exploitation, testing and upholding of applications
- Multi-user architecture, in other words extensibility.
- Collaborative tools.

An case in point of these services is Google App engine.

Combustion synthesis and luminescence properties of Dy (III) activated NaBaBO₃ phosphor for solid state lighting applications

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Abstract.Polycrystalline samples of NaBaBO₃:Dy³⁺ were prepared by employing modified solution combustion synthesis method. The phase formation was confirmed by X-ray powder diffraction (XRD) measurements. The prepared sample was characterized by using SEM and FTIR Techniques. The photoluminescence excitation and emission spectra were measured on HITACHI F-7000 fluorescence spectrometer. Under the excitation of near-UV light, Dy³⁺ doped NaBaBO₃ presents the PLE spectra show the excitation peaks from 300 to 400 nm is due to the 4f-4f transitions of Dy³⁺. This mercury-free excitation is useful for solid state lighting and light-emitting diodes. The emission of Dy³⁺ ions upon 350 nm excitation is observed at 482 nm due to the ${}^{4}F_{0.2} \rightarrow {}^{6}H_{152}$ transitions and 574 nm due to ${}^{4}F_{0.2} \rightarrow {}^{6}H_{132}$ transitions. The CIE chromaticity coordinates for NaBaBO₃·Dy³⁺ phosphors are simulated and located in the bluish-white region. The phosphor shows an excellent thermal stability on temperature quenching effects. The effect of concentration of Dy³⁺ ions on the PL intensity has also been investigated. It has been observed that the powder sample exhibits highest PL emission intensity for Dy³⁺ concentration of about 0.01 moles. The results were discussed on the relationship between the structure and the luminescence properties.

INTRODUCTION

Large numbers of compounds doping with different rare earths were prepared by the researchers till dateusing different synthesis methods [1-6]. Apart from them, rare earth doped borates phosphors have attracted attention due to considerable belongings including high luminous efficiency, low synthesis temperature, high chemical stability and high color purity reputations [7-9]. Dy³⁺ doped phosphors have been treated as promising single-phase white emitting materials. The yellow emission of Dy³⁺ is rather hypersensitive to the local environment, whereas the blue emission of Dy³⁺ is not very sensitive to the local environment. A white light emission with appropriate color temperature and chromaticity coordinates can be achieved through suitable adjustment of the yellow/blue intensity ratio in Dy³⁺ doped phosphors [10]. Divalent / Trivalent rare earth ions doped inorganic compounds phosphors are found to be applicable for white light emitting diodes [11]. Low energy consumption, higher lifetime and higher efficiency made these LEDs protagonist materials [12]. The structure of NaBaBO₃ was firstly reported by Tu et al. in 1995 [13]. However, there is very few report about the luminescence property of Dy³⁺ doped NaBaBO₃. White light-emitting diodes (WLEDs) as a next-generation lighting source have appeared to be the most promising in a typical form of solid-state lightime, durable energy saving capability, and eco-friendly feature with mercury-free

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SOLUTION OF ORDINARY DIFFERENTIAL EQUATIONS WITH VARIABLE COEFFICIENTS USING KAMAL TRANSFORM

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ABSTRACT:

Abdelilah Kamal is a new integral transforms introduced by the names the "Kamal transform" to facilitate the solution of differential and integral equations. In this study a new integral transform, namely Kamal transform was applied to solve linear ordinary differential equations with variable coefficients by using the modified versions of Laplace and Sumudu transforms. The Kamal transform, whose fundamental properties are presented in this paper. The various examples are presented to give the effectiveness of its applicability.

Keywords: Kamal transform and Differential equations with variable coefficients

INTRODUCTION

The differential equation have played an important role in every aspect of applied mathematics for every long time and with the approach of the computer, their importance has increased father. Ordinary differential equations have important applications and are a powerful tool in the study of many problems in the natural sciences and in technology; they are extensively employed in mechanics, astronomy, physics, and in many problems of chemistry and biology. Thus investigation and analysis of differential equations cruising in applications led to many deep mathematical problems; therefore, there are so many different techniques in order to solve differential equations. The integral transform generally used and it's applications such as the Laplace, Foureir, Mellin, Hankel and Sumudu, to name but a few.Presently, Abdelilah Kamal found a new integral transform, called the Kamal transform, and then applied to the solution of ordinary and partial differential equations.

Integral transforms are mathematical tools for solving differential and integral equations for centuries. However, this old area has recently got a center stage among many researchers by introducing many integral transforms among which are [1-6].

In this paper, the recently introduced integral transforms by Abdelilah Kamal [7] closely studied in relation to the some existing famous integral transforms that are defined in the time domain. Kamal Transform was successfully applied to integral equations, partial differential equations [8], ordinary differential equations with variable coefficients [9] and system of all these equations. In this paper we drive the formulate for Kamal transform of ordinary derivatives and apply them in solving some types of differential equations with variable coefficient using Kamal Transform.

The Kamal transform defined for function of exponential order, we consider functions in the set A defined by,



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On the Mahgoub Transform and Ordinary Differential Equation with Variable Coefficient

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ABSTRACT:

The Mahgoub Transform, whose fundamental properties are presented in this paper .Here we apply new integral transform named as "Mahgoub Transform" to solve some ordinary differential equation with variable coefficient.

KEYWORDS : Mahgoub Transform – Differential Equation

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PERFORMANCE INVESTIGATION OF SOLAR AIR HEATER BY VARYING RIBS IN BOTH FREE AND FORCED CONVECTION

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Abstract: In Solar Air Heater, collector plate is the important component which is mainly responsible for heat transfer through convection. Attached ribs to the collector plate will also improve the thermal efficiency of the solar air heater. It is also proved with an experiment that the rate of heat transfer can be increased by using variety of ribs. This paper investigates the thermal efficiency of solar air heater by using two different types of ribs in both free and forced convection. The results obtained will gives the extra dimension in study of solar air heater. Slight increment of thermal efficiency by using perforated ribs is the keystone in this investigation, while the basic v-shape ribs are taken as it is. Experimental setup is duly calibrated and the place, day (sunny) and time was chosen in such a way that the maximum intensity of solar radiation can be achieved so as to obtain better results.

IndexTerms - Solar Air Heater, Ribs, Solar Energy, Performance Analysis

I. INTRODUCTION

Solar energy is the important source of power which freely available. Even though the fluctuation in the intensity is the major problem associated with this source, there are so many methods available to convert solar energy into required work in considerable range. We are now able to utilize this solar power by means of electricity, light or heat which is further used to heat the water or air. Photo-voltaic cell is the key part for conversion of solar radiation into electricity.

Solar Air Heater is the one the device which converts solar energy into thermal energy. This energy can be utilized in various applications like warming the room, dry heated air for industrial applications, removing moisture content in food industry etc. Hence it is important device and it consists of insulated box and collector plate which is placed on the top of the box. On the bottom plate and top plate v-shaped ribs were mounted for better convection of heat. This type of rib mounting is also called as increasing surface roughness. Figure 1.1 (a) shows the insulated box and collector plate. Figure 1.1 (b) shows the complete assembly along with inlet and outlet pipes.





Figure 1.1 (a): Insulated Box with collector plate.

Figure 1.1 (b): Complete assembly of Solar Air Heater

In this investigation we have used same solar air heater to carry out experiments. There are different types of solar air heaters are available, but generally they are classified into two groups.

- 1) Smooth Plate Solar Air Heater.
- 2) Ribbed Plate Solar Air Heater.

Smooth plate solar air heaters are usually less thermal efficient compared with ribbed plate solar air heater. Construction of smooth plate solar air heater is simple but the only difference in between the smooth plate and ribbed plate is the ribs which are given on collector plate. All other construction is same and the thermal efficiency is greater in case of ribbed plate solar air heater. To investigate this fact and other performance characteristics experimentations are carried out. Air inlet is taken by two ways free air stream and air stream by means of blower to obtain free and forced convection.

Roughness provided on collector plate gives better thermal efficiency and it also gives better heat transfer rate. Intake air comes on room temperature which is further heated by solar heater and comes out from outlet pipe. Figure 1.2 shows the types of ribs

Experimental setup of Solar Air Heater with Rib Modification: A Review

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Abstract- Solar Air Heaters are utilized in variety of forms and types. They are cost effective, efficient and their performance is remarkable. It directly utilizes the solar energy to keep air warm and can maintain required temperature. This review focuses on the utilization of solar air heater in different places with their performance efficiency. The various types of solar air heater with ribs are also discussed. Most of the authors have focuses on effectiveness of solar air heater for long term duration. But fluctuation in solar energy is to be considered for studying effectiveness of solar air heater.

This review also focuses on the study which have done with solar air heater capabilities to know the possible fields where it can work successfully. Modification in ribs is done rarely and if we find a performance analysis with modification in ribs then it could be a new edge of study on solar air heater.

Index Terms- Solar Air Heater, Ribs, Solar Energy, Performance Analysis

1. INTRODUCTION

Solar air heaters are being used for many applications at low and moderate temperatures. Some of these are crop drying, timber seasoning, space heating, cooking etc. The thermal efficiency of solar air heater has been found to be low due low thermal capacity of air and because of low convective heat transfer coefficient between absorber plate and flowing air in the duct. The use of solar panel for storing the sun radiation can be the solution for this in our future research work. Attempts has been made to enhance the heat transfer rate by use of extending surface in form of fins but the heat transfer is accompanied by pressure drop penalty. In another approach use of artificial roughness is the most effective and economic way for improving performance of solar air heater. In this approach turbulence is created by roughened surface in viscous sub layer to obtain heat transfer enhancement. Several roughness geometry has been tested so far to enhance heat transfer with consumption of pumping power [1].Energy is the one of the most important need of mankind, be it proving light or be it to run machines. Energy in different forms and functions has portrayed a very important role in the extensive economic boom and industrialization. For coming generations, we need to depend on the source which can provide infinite energy. Solar energy can be said to be one of those forms which is freely available, and easily accessible and of course is non- polluting in nature. It is considered to be an indispensable source of energy to meet the growing demand for the sustainable

development and to control the global climate change. The need to enhance the thermal performance of heat exchangers, consequently, effecting energy, material, and cost savings as well as a consequential mitigation of environmental degradation had led to the development and use of many heat transfer enhancement techniques. There are several devices like solar water heater and solar air heater are used to harness the solar energy. Many researchers have conducted numerical study of solar air heater. CFD is a vital tool to analyze thermal systems [7]. Solar Air Heater is the one the device which converts solar energy into thermal energy. This energy can be utilized in various applications like warming the room, dry heated air for industrial applications, removing moisture content in food industry etc.

2. EXPERIMENTAL SET-UP

Research experimental setup consists of insulated box and collector plate made of solar panel which is placed on the top of the box. On the bottom plate and top plate v-shaped ribs were mounted for better convection of heat. This type of rib mounting is also called as increasing surface roughness.

- Insulated box with collector plate
- Complete assembly along with inlet and outlet ٠ pipes

There are different types of solar air heaters are available, but generally they are classified into two groups.

Smooth Plate Solar Air Heater

Two-Fluid Cosmological Model in Einstein-Rosen Inflationary Universe

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Abstract:

In this paper, we have studied universe filled with two-fluid in an anisotropic and homogeneous Einstein – Rosen metric. For an inflationary universe, we have considered one fluid which represents the matter content of the universe and other fluid is chosen to model the CMB radiation. The physical and geometric cosmological parameter are studied and discussed.

Keyword:Einstein - Rosen metric, inflationary universe, two-fluid.

Introduction:

In the present stage, many authors have been interested in cosmological models of the universe because of the early stages of its evolution. Inflationary universe in general relativity has been investigated by Guth[1], Linde[2] and La and Steinhardt[3], Burd and Barrow [4], Wald[5], Barrow[6]studied different aspects of scalar field.Bianchi type-I model with a two fluid source has been investigated by Oli[7] with and without variable G and A. Pant and Oli[8] investigated two fluid cosmological models using Bianchi type-II space time. Two fluid Bianchi type-VI models are studied by Coley and Dunn [9]. Beesham[10], Chakraborty and Roy [11] explored the Bianchi type cosmological models for perfect fluid. Einstein's field equations with varying G and A has been investigated by Kalligas et al. [12], Arbab [13], Beesham et al. [14] and Kilinc [15]. Vishwakarma[16] examined Bianchi type-I model with varying G and A.Adhav et al.[17] investigated the power law solution of two fluid cosmologicalfield equation in Bianchi type-III space time in absence of variable gravitational and cosmological constant (G & A). They showed that the model admit point singularity. Singh et al.[18] constructed anisotropic homogeneous two-fluid cosmological models usingBianchi type-V space time without variable G and A.This work is an extension of Adhav et al.[17] by introducing variable gravitational and cosmological constant (G & A).Katore [19] explored the Bianchi type-III inflationary universe with constant deceleration parameter in general relativity. Recently Mete et al. [20] have studied Kasner cosmological model with two fluid source in general relativity.

This motivates us to investigatetwo fluid models in Einstein – Rosen inflationary universe in general relativity. Some important geometrical and physical features of the model have also been discussed.

Metric and field equations:

We have considered the cylindrically symmetric Einstein – Rosen metric in the form $ds^2 = e^{2a-2\beta} (dt^2 - d\phi^2) - \rho^2 e^{-2\beta} d\phi^2 - e^{2\beta} dz^2$.

where α and β are functions of cosmic time t only and $x^1 = \phi$, $x^2 = \phi$, $x^3 = z$, $x^4 = t$.

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Kantowski-Sachs Modified Holographic Ricci Dark Energy Model in Lyra Geometry

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Abstract:

In this paper, we have studied Kantowski-Sachs space-time in presence of anisotropic modified Ricci dark energy and matter as a source in Lyra manifold (Math. Zeitschrift 54,52 1951). Solutions of the Einstein field equations have been obtained with the help of hybrid expansion law proposed by Akarsu et al. (2014). Some physical and kinematical parameter of the models are also discussed.

Keywords: Kantowski-Sachs space-time, anisotropic modified holographic Ricci dark energy, statefinder parameter, Lyra manifold.

Introduction:

At present, the universe is in the stage of accelerated expansion, which has been confirmed by distance type Ia supernovae team [1-3]. The term responsible for the accelerated expansion of a universe is called as 'dark energy' (DE) having negative pressure, which is still a cosmological mystery [4]. The universe is filled with DE with negative pressure as well as dark matter (DM) without pressure. The equation of state (EoS) parameter $\omega = \frac{p}{\rho}$, where p is pressure and ρ is

energy density gives the study of dark energy. The current value of EoS parameter is still unknown. Therefore many candidates are introduced for the dark energy. Cosmological constant (A) is supposed to be the simplest candidate for DE, but it has fine tuning as well as coincidence problem. Few other candidates presented to construct DE models like quintessence model [5], phantom model [6], k-essence [7], and so on.

Recently, holographic dark energy (HDE) models have been obtained considerable attention to explain DE cosmological models. According to holographic principle, the number of degree of freedom in a bounded system should be finite and is related to the area of its boundary [8]. This principle content that HDE model can solve this cosmological constant problem and other issues. Fischer and Susskind [9] and Cohen et. al.[10] put forword the cosmological version of this principle. In recent years, a new holographic Ricci dark energy model having density $\rho_A = 3M_{pl}^2 = \eta H^2 + c\dot{H}$ was proposed by Granda and Oliveros [11]. Further, Chen and Jing [12] reconstructed this model by considering the density of DE includes the Hubble

A STUDY OF BRAND AWARENESS AND BRAND PREFERENCES FOR SOAP & TOILETRIES PRODUCTS AMONG RURAL CUSTOMERS IN AMRAVATI REGION

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ABSTRACT:

There is a huge potential in the rural markets companies are trying to tap in rural areas because there is a tight competition in urban markets if we look the present situation of the rural consumer. In this research work efforts has been taken to analyze the behavior of rural consumer while purchasing toiletries items.

Keywords- Rural consumer, brand reference, brand awareness, consumer behavior.

1. INTRODUCTION

1.1 Brand:

A brand is defined as a "name, term, sign symbol (or a combination of these) that identifies the maker or seller of the product". Brand is a marketing tool which allows consumers to recognize the maker of product. A brand name helps an organisation differentiate itself from its competitors. In today's competitive world customers expect products to have branding. Customers often build up a relationship with a brand that they trust and will regularly purchase products from that brand. Some people will only purchase a particular brand even though there are acceptable alternatives on the market.

1.2 Brand Awareness:

Brand awareness refers to the extent to which customers are able to *recall* or *recognize* a brand. Brand awareness is a key consideration in consumer behavior, advertising management, brand management and strategy development. The consumer's ability to recognize or recall a brand is central to purchasing decision-making. Purchasing cannot proceed unless a consumer is first aware of a product category and a brand within that category. Awareness does not necessarily mean that the consumer must be able to recall a specific brand name, but he or she must be able to recall sufficient distinguishing features for purchasing to proceed. For instance, if a consumer asks her friend to buy her some gum in a "blue pack", the friend would be expected to know which gum to buy, even though neither friend can recall the precise brand name at the time.

1.3 Brand Preference:

Brand preference is the brand that a customer chooses for a particular product category. It is often expressed as the percentage of target customers who prefer your brand. Brand preference can be measured by self-reported unaided survey questions such as "what is your favorite type of orange juice?" It can also be tested with user interfaces that ask a customer to pick a product from several competitors. The position of choices may be randomized.

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A Study of Customer Perception about Online Food Ordering Services in Amravati City

Sinod Gewande, Gejonan Packophore, Advich Derbrookh

Department of Nanogement Bradius (MER): Prof Ann Wegler Institute of Technology & Paterrok, Annuali (MA Dalos, India

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I. INTRODUCTION

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I. INTRODUCTION

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A Study of Customer Perception about Online Food Ordering Services in Amravati City

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A CONSUMER AWARENESS AND INVESTMENT PATTERN TOWARDS SUKANYA SAMRUDDHI YOJANA

*Prof. Kamini S. Bijawe

** Prof. G. D. Pachaghare

*Assistant Professor, Department of Management Studies, PRMIT&R,Badnera-Maharashtra-444701.

ABSTRACT:

Sukanya Samruddhi Yojana/Scheme is one of the most popular government schemes launched by the Indian Prime Minister, Shri. Narendra Modi. The scheme is aimed at betterment of girl child in the country. Sukanya Samruddhi scheme has been launched to offer a means of saving to the girl child in every family. The money saved via this scheme is to provide for higher education of girl and for her wedding expenses. The scheme has been accepted very well by the public since this is a great step towards providing financial security and financial dependence to women.

Key words: Sukanya Samruddhi Yojana, consumer awareness

1. INTRODUCTION

Gender inequality is one of the most pressing issues in the country today and hence, this scheme is being seen as a great step towards eliminating gender related issues, hi a country like India, where education of male child is given preference and where wedding expense 01 gins is seen as a great liability the launch of this gin child specific is a massive step. The scheme will help girls achieve financial independence and help them have money at hand for higher education as well as wedding expenses. One of the most distinguishing features of the scheme is that Sukanya Samruddhi deposit amount can only be withdrawn by the girl child and not even the depositor (parent or guardian) is allowed to withdraw money on behalf of the girl.

There are a host of public and private sector banks as well as post offices which have been authorized by the Finance Ministry for offering **Sukanya Samruddhi Account.** The scheme was launched in 22nd January, 2015 and since then seen a huge surge in the number of customers who have applied for it.

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STUDIES ON DETERMINANTS OF EMPLOYEE LOYALTY TO THE ORGANIZATION-A STATE OF ART

* Prof.Pratiksha Ashokrao Kalmegh ,** Prof. Minal M. Nistane, *Assistant Professor, Department of Management Studies, PRMIT&R,Badnera-Maharashtra-444701 **Assistant Professor, Department of Management Studies, PRMIT&R,Badnera-Maharashtra-444701.

<u>Abstract:</u> Today's businesses are facing many challenges & one of these are recruiting & retaining competent & committed workforce. The biggest portion of company's budget goes to manpower management. Thus an organization needs to be very careful while dealing with this key resource i.e. human resource. In today's era of cutthroat competition company needs not only competent but also committed workforce in order to deliver required results and achieve profitability even they create healthy work environment. Loyal & committed employees are those who are self driven, motivated, satisfied & possess sense of belongingness to the organization. In this paper the determinants of employee loyalty are explained.

Key Words: Employee Loyalty, Employee retention, Performance Management, Work environment.

INTRODUCTION

Walt Disney once said: "You can dream, create, and build the most wonderful place in the world, but it requires people to make the dream a reality. This depicts the pivotal role of employees in organization.

"The speed at which today's economy changes has totally altered how you must go about recruiting, hiring and training new and existing staff to your way of doing business. As in order to organization be an efficient & effective it need to maintain healthy work environment, and healthy work environment will exist if an organization will be an able to attract & retain not only competent, well qualified & skilled but committed and loyal workforce. Loyal employees can reinforce the motivation of other employees & are the vital source of productivity to the organization.

Now a day's we are witnessing that the labor market is shifting continually and dramatically, which forces employers to adopt new strategies for managing workforce. Hiring & retaining competent & committed employees is the challenge for organizations.

Most likely, the greatest portion of company's budget goes to Human Resource costs as they represent significant investment in term of locating, recruiting, training let alone salaries, welfare plans, bonuses and rewards etc. Thus it becomes more obvious for an organization to create loyalty amongst these competent employees in order to achieve productivity and profitability.

Employee Loyalty

Loyalty is a strong feeling of support or allegiance. It signifies a person's devotion, sentimental of attachment to a particular object, which may be another person or group of persons, an ideal, a duty, or a cause. It expresses itself in both thought and action and strives for the identification of the interests of the loyal person with those of the object.

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A study of Work behaviour of generation Y employees - An Overview

* Prof. Minal Mahavir Nistane

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ABSTRACT

Generation Y is the new generation after generation X that can be classified as a person who was born between 1980's and 1990's. This generation is the new generation or known as millennial who will fully enter the workforce and lead the organization. The objectives of this study are to get better understanding on the generation Y behaviour at the workplace.

A generation has been defined as a cluster of people who shares both the same birth years and significant life events. So, a generation arises with the birth rate increase and ends, when it drops and it represents a group who have a similar world view grounded in defined society or historical events that have occurred during that generation's development year. Followers of this specific thought discuss that those who grow up in different time periods have very different sets of beliefs, values, attitudes and expectations which in turn impact their behaviour generally and in the workplace. There are four generational groups in the time spanning more than 60 years: Traditionalists, Baby Boomers, Generation X and Generation Y, with the latter three being the primary generations. Despite all the variations in how they are described in the literature and how their start and end dates are categorized, there are some common thought among practitioners and academics about how these different generations are characterized and on the consequences of this for the way they are managed Generation Y, which is the most technically literate, educated and ethnically diverse generation in and at the graduate level there has been considerable interest not only in attracting, and retaining this talent but in developing it as well, is the latest generation in the workplace. At the same time, there have some indications that this generation of graduates plays a great deal of importance on personal development and continuous learning.

Keywords:

Generation Y employees, Work behaviour, Work place, Cultural

INTRODUCTION

The generation born in the 1980s and 1990s, comprising primarily the children of the baby boomers and typically perceived as increasingly familiar with digital and electronic technology.

The generation of people born during the 1980s and early 1990s. The name is based on **Generation X**, the generation that preceded them. Members of Generation Y are often referred to as "echo **boomers**" because they are the children of parents born during the baby boom (the "**baby boomers**").

Generation Y is used to refer to people born in the 80s and 90s. Their archetype is the Hero generation, an honor they share with the "G.I. Generation" who fought WWII. Compared to Xers they practically led a

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Security Threats To Social Networking Sites: A Review

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Abstract:-

Social Networking sites are at the heart of everyone now days. Everyone is sharing their personal information like images, videos on these sites. People are finding new and innovative ways to create an impact through these social networking sites and several businesses are also now thriving on such websites.

There are many security attacks which are possible on these sites to steal personal information which can be misused. Phishing is most common attack on social engineering sites. Social media offer many benefits to attacker than email or any other sites. Social networks provide a wealth of information about users. Depending on a person's privacy settings, an attacker might be able to see their contacts, location, and topics of interest.

In this paper we discussed different possible attacks on social networking sites and their preventive measures.

Keywords: Social networking ,Security attacks, Privacy.

Introduction:-

In this day and age, when most of our days begin with fiddling with our phones and logging onto social networking websites to check on latest updates about friends and the world around, social media is our source of news and entertainment.

These websites are a great way to connect with people from all over the world, stay in touch, share pictures, videos and other media and have a virtual connection with people with same interest.

Popular Social Networking Websites are:

Facebook

It is one of the most widely used social networking website where people make new friends, communicate and share media with them.

People can express feelings and views through status messages and tell the whole world about current updates like travel location and activity.

Nowadays it is used as a tool to promote product , companies , businesses, movies and shows. WhatsApp

Every smart phone is having Whatsapp, the day starts and ends with whatsapp. With whatsapp one can do chatting with individuals or with group, Video call, whatsapp call and sharing stories. Whatsapp user uploads status which is viewed by everyone in phonebook.

YouTube

It is popular app from kids to senior citizen. Just give any topic to search it will provide us numbers of videos. Even one can create own YouTube channel, post videos and can get earning. Video become viral in very less time on YouTube .

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RESEARCH ARTICLE

OPEN ACCESS

Performance Comparison of RandomForest and Hoeffding Tree classifier using WEKA data mining tool on Car reviews data

S.A.Ghogare*, Dr.S.R.Kalmegh**

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ABSTRACT

The Size of data base is increasing day by day with rapid speed. The WEKA is data processing tool contain organized collection of state of art machine learning algorithm. However, convenient interactive graphical user interfaces are provided for data exploration, for setting up large-scale experiments on distributed computing platforms, and for designing configurations for streamed data processing. This paper has been carried out to make a performance evaluation of RandomForest and Hoeffding Tree classification algorithm. The paper sets out to make comparative evaluation of two Tree classifiers from WEKA RandomForest and Hoeffding Tree in the context of dataset of car reviews to maximize true positive rate and minimize false positive rate. The WEKA tool used for result processing. The results in the paper on dataset of car reviews also show that the efficiency and accuracy of RandomForest is excellent than Hoeffding Tree.

Keywords- Classification, Data mining, Hoeffding Tree, RandomForest, WEKA.

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I. INTRODUCTION

Today the rapid growth of internet, product related word-of-mouth conversation have migrated to online markets, creating active electronic communication that provide a wealth of information. The huge amount of data is generated from various resources. Disks and online storage make it too easy to postpone decisions about what to do with all this stuff, we simply get more memory and keep it all. In data mining, the data is stored electronically and the search is computerized or at least augmented by machine. Data mining is a topic that involves learning in a practical, non theoretical sense. We are interested in techniques for finding and describing structural patterns in data, as a tool for helping to explain that data and make predictions from it. Experience shows that in many applications of machine learning to data mining, the explicit knowledge structures that are acquired and the structural descriptions are at least as important as the ability to perform well on new examples. People frequently use data mining to gain knowledge, not just predictions ^[8].

Nowadays, more and more e-commerce platforms offer product reviews. A product review is a textual review of a customer or expert, who describes the characteristics of a product. A product rating on the other hand represents the customer's and expert opinion on a specified scale. In the given research paper we have used car review data set. Form Comparative analysis of RandomForest and Hoeffding Tree classifier.

II. DATA MINING TOOL

Data Mining is a powerful technology with great ability to help organizations focus on the most important information in their data center. It also predict future trends, behavior and with result. It also contains variety of analytical tools that used for data analysis. It allows users to analyze the data from many different aspects, categorize it, and summarize the identified relationships. There are many Data Mining tools are available such as the WEKA, KNIME, Orange, SPSS Clemantine, MATLAB, and NeuroShell etc. These tools provide a set of Data Mining methods and algorithms that help in better implementation of data and information available to users. The available Data Mining tools can be divided into two types which are open source/non-commercial software and commercial software. These types of tools have their own strengths and weaknesses in terms of data types and the application methods. From the given set of tool in my research work we have used WEKA tool.

III. WEKA

WEKA was developed at the University of Waikato in New Zealand; the name stands for Waikato Environment for Knowledge Analysis The system is written in Java and distributed under the terms of the GNU General Public License. It runs on