

An Advanced Fractional Depiction Encryption Methods Based on Gauss Map

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Abstract: Macrography is a science to conserve the security of the report by changing figures or information into dynamic form, so the report cannot be recognized. Today, many innovations have been preferred for figure encryption, but the chaotic encryption methods have a quality combination of hurdle and very high reliability. In current years, the chaos-based cryptographic fractional have suggested some new and efficient ways to develop secure image encryption techniques. The chaos-based encryption schemes are composed of two steps: chaotic confusion and figure diffusion. In the chaotic confusion instant, a combination of the chaotic maps is used to understand the confusion of every pixel. Encryption of visual data is a requirement of the modern day. This is obvious and greatly required due to widespread use of digital communication mediums, their wide range of applications, and phishing activities. Chaos approaches have been shown to be extremely effective among many encryption methods. However, low-dimensional chaotic schemes are characterized by restricted system components and fundamental structures. Therefore, to overcome the shortcomings of the lower order chaotic map, this paper proposes a Gauss Map for pixel encryption for the first time. The performance of the stated work is evaluated using some of the most important metrics as well as the different attacks in the field. The simulation was done on the MATLAB platform, and the classification accuracy after the encryption-decryption process is compared.

Keywords: Macrography, Chaotic Confusion, Pixel Diffusion, Figure Encryption, Gaussian Mapping



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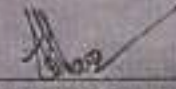
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Real Time Tracking and Detection of Enemy Through Machine Gun Technique

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ABSTRACT

Border's restricted areas are dangerous for our soldiers. We have heard a lot about increasing rate of ceasefire violation at our border from Pakistan side causes death of our soldier. It provoked us with a feeling of being forced to think about our soldiers. So our study aims to find out the solution of a question that how it looks like to be, if our border is protected by a third eye instead of our soldier which save our soldier from being killed by enemy instantly.

We came up with a solution, friend of our soldier and quietus to our enemy, "VAJRA" an autonomous enemy detection camouflage gun and kill them which detects enemy and kill them in few minute under defined range.

I. INTRODUCTION

1.1 Overview:

We have many valuable possessions that needs protection but can't be everywhere at once. Luckily, by using image recognition and motion detection software, we can built automatic gun turrets to protect our border as well as most prized possessions in our absence. Object Detection is very challenging and practically useful technology in the field of Computer Vision. Object detection deals with identifying the object present in Source image. Considerable amount of research is being done in the territory of object detection in the last decades. Incredible achievement had been accomplished in this area. **Autonomous Camouflage** gun are the best example of this at instance. Sometimes certain incidents arose at As per the data cited in the annual report (2017-18) of **Ministry of Home affairs, government of India**, The ongoing militancy in the State of Jammu and Kashmir is intrinsically linked

with infiltration of terrorists from across the border both from the "International border" as well as the "Line of Control" in J&K. The reported infiltration attempts and net infiltration in J&K since 2013 is indicated in the table below:

Year	2013	2014	2015	2016	2017
Infiltration attempts	277	222	121	371	406
Net Estimated infiltration	97	65	33	119	123

Table-1: soldiers killed data from 2013 to 2017

Presently at Indo-Pak border, 656 BOPs are held by BSF along the IPB. A proposal for construction of 96 Composite BOPs along the Indo-Pakistan border has been sanctioned. Construction of these Composite BOPs will provide necessary infrastructure for accommodation, logistic support and the combat functions of the BSF troops deployed on the Indo-Pakistan borders. The project is targeted for completion by July, 2018. Construction activities

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Abstract

Recently, artificial intelligence (AI) has become more prevalent in the medical field. AI aids in the prediction of illness of patients for medical treatment. The use of AI in healthcare is slowly gaining popularity among doctors as well as patients, drug companies, healthcare providers, insurance companies, and medical facilities.

AI aids in a variety of medical procedures such as dermatology, angiography, echocardiography, neurology screening and retinal care. Both doctors and patients can easily use it, and it facilitates feedback ready for the medical community's study. AI aids in patient monitoring, screening, and it also has the provision of clinical and medical investigations of patients.

Keywords: Big Data, Machine Learning, Healthcare, Artificial Intelligence, Robotics.


INTRODUCTION

India only produces 50,000 doctors annually, which is insufficient to meet the basic requirements. By 2030, India will require 2.3 million doctors in order to reach the WHO-recommended minimum doctor-patient ratio of 1:1000. Early tests

conducted by a dozen healthcare businesses may hold the key to advancing Indian healthcare in the future and reducing the strain on the country's healthcare infrastructure (Murali A. and Sen A, 2019).

Computing, software development, and data

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About the Author



Assistant Professor Ms. Kaushaki Sondhi is a certified professional educator who received her Bachelor's degree from the Dr. Bheem Rao Ambedkar University, Agra. She has contributed extensively to the education by rendering her services towards educating community and completing her bachelors of education and Masters from Bhopal, Tagore University. She also did her Masters in finance and allocated many certificates and acknowledgments during her studies and services. Ms. Sondhi have host, attend and participated many live events and was the recipient of many awards for hers innovative approaches towards education system. Additional she was awarded honorary with the diploma in human rights from "International institute of human rights studies," "international human rights and peace advisory council" great warrior of humanity and "global institute of healthcare management" for her services during pandemic situation of covid19, as a social Innovator and Dr. Sarvepalli Radhakrish award for innovative teachings. Being an advisor for many foundations, Universities, colleges, schools and institutes such as Safeguarding Children Sewa Samithi, Koshambi Foundation, Bharath University, Shree Venkateshwara College of Engineering and Technology, Naranarayan Swastri Institute of Technology, Greenland Public School, Bhaskar Sen Sec. School, Sports Academy Association of India, Robosmart Labs, Mentor of Change Niti Aayog, Shree Swami Narayan Gurukul Ghyanbhag International School and many others with the motto of "Let's spread colours" together, to promote balanced and equal education access for everyone, where mental health, spiritual, social, skilled based and professional knowledge is promoted at liberty. Being Former Principal of Holy Public Girls School, Agra, she have gathered exposure about students at school level.

Currently she is working in the Mangalmai Institute of Engineering and Technology (MIET), Greater Noida as an Assistant Professor in the Department of Engineering. She works as a Soft Skills faculty along with Student Counselor. Author is highly thankful to the Management of MIET, Greater Noida for providing fruitful support and provides resources needed for completion of present work moreover self growth also.

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A Novel Computation Offloading Under 6G LEO Satellite-UAV-based IoT

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Abstract—The Internet of Things (IoT) has become a fundamental and omnipresent component of modern life, such as the infrastructure of intelligent transport systems and smart cities. All the next-generation IoT systems necessitate cognitive data processing that could be accomplished promptly through satellite communication. The edge server performs data processing in satellite communication, which is predicted to minimize service delay. However, in prevailing satellite technology, substantial transmission latency, significant route loss, and the resource, as well as energy limitations of IoT devices, all pose challenges to the rigorous service demands for latency and throughput in the upcoming 6G age. To tackle these challenges, 6G IoT will rely heavily on technologies such as space-air-ground integrated networks (SAGINs), edge computing, deep learning, machine learning, blockchain, and energy harvesting. Combining communication technology with Unmanned Aerial Vehicle (UAV) has recently been identified as one of the potential strategies in the future network. UAVs may provide a variety of services; however, the UAV's onboard computational resources and battery backup are constrained. The Researchers in this article examine satellites as well as UAVs to deliver wireless IoT device cloud computing and edge computing services, respectively. Grounded IoT devices can conduct operations locally or offload them to UAV-based edge servers as well as distant cloud servers via satellites. The major emphasis is on the computational offloading dilemma and considering deep learning methods to optimize the task success rate considering energy dynamics and channel circumstances. The suggested AI-based offloading approach outperformed conventional methods, indicating that it can determine the most energy-efficient offloading policy.

Keywords— Internet of Things (IoT), Unmanned Aerial Vehicle (UAV), Satellite, Low Earth Orbit (LEO), 6G, Computation Offloading, Deep Learning

I. INTRODUCTION

Wireless communication technologies have grown at an astounding rate, catapulting the way machines and humans interact. This enormous expansion of connected devices, together with the ever-increasing necessity for large bandwidth, has been the primary driving catalyst for such evolving advancements during the last decade [1]. The Fifth-Generation (5G) wireless communications technology is

growing towards becoming a dominant technology that serves a diversity of perspectives with varying service needs. The IoT, amongst the most potential 5G applications, aspires to interconnect billions of gadgets to transform human lives. The enormous implementation of 5G terrestrial networks can facilitate IoT applications across hotspot locations. However, effective wireless coverage solutions for rural areas continue to be insufficient [2]. In contrast, 6G is projected to be regulated and operational by 2030, and research efforts have begun to switch toward 6G communication technologies [3][4]. The density of IoT connections in 6G networks exceeds 108 devices per square kilometer, which is 100 times higher than in 5G. In addition, 6G can deliver global wireless communication services as well as a diverse variety of IoT applications, particularly in distant places. It is anticipated that 6G will enable rigorous continuous IoT with near-complete global coverage, including ocean, forest, and highland regions [2]. IoT technology has advanced significantly in recent years, owing to the development of infrastructure (including terrestrial networks and cellular networks) and the widespread adoption of smart gadgets. By 2025, experts expect that over 75 billion IoT devices will be connected to the internet. In 2019, 13.6 zettabytes (ZB) of data were produced by IoT connections throughout the world, and this data volume is predicted to reach 79.4 ZB by 2025 [5].

Due to financial and technical constraints, the terrestrial network barely covers around 20% of the entire geographical area and is mostly centred in metropolitan areas. The terrestrial network cannot adequately serve some extreme regions, namely deserts, jungles, highlands, and coastal areas. Furthermore, terrestrial networks are vulnerable in the event of unforeseen disasters such as flooding, earthquakes, severe storms, hurricanes, and so on. However, for remotely monitoring large-scale areas and controlling multiple devices and objects, the integration of Satellites and IoT has become critical [15]. As it enhances the reliability of remote monitoring by expanding the coverage area, low earth orbit (LEO) satellites are ideal for IoT networks. Although Satellite communication systems, with their enormous network and system resilience, can deliver network connections for IoT devices in isolated regions, bringing the "Internet of Everything" to life. Satellites have not only become an

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ABSTRACT

This study proposes that energy Internet is the power system's future development direction, since it addresses the issues of clean energy compatibility and deep and efficient power system control. The energy sector faces information security challenges. The Internet classifies flaws and investigates information security. Protection of distributed energy stations in an energy Internet context. This paper presents the system architecture of distributed energy stations in the context of the energy Internet, analyses the information security protection countermeasures of distributed energy stations, and analyses by constructing the network security framework of distributed energy stations, in order to provide assurance for distributed energy station information security.

Keywords: Energy Internet, Network Security Framework, Internet of Things

INFLUENCE OF DIGITAL INDIA PROGRAM IN STRENGTHENING CUSTOMER PURCHASING BEHAVIOR

ABSTRACT

This study attempts to analyze the influence of the digital India program on boosting up buying behavior of customers. Consumer buying behaviour in respect of e-commerce was studied using various socio-economic parameters. It also helps researchers to identify the drivers of consumers' attitude and desire to purchase things on e-commerce portals, and consumers' perceptions regarding ease of use and convenience. Conclusions derived from the study can be used to understand the various factors influencing consumer behavior through the digital India campaign. The Analysis of the study suggests that there is a paradigm shift in consumer buying behavior towards e-commerce industry due to enhanced awareness and availability of various platforms under the digital India program launched by the Government of India.

Key words: Digital India, Buying Behaviour, Consumers etc.

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TO EXPLORE THE PERCEPTION OF PARENTS TOWARDS ONLINE CLASSES WITH RESPECT TO PRIMARY SCHOOL LEARNING

Ms. Akansha Rehani²⁸ and Ms. Kanika Sharma²⁹

ABSTRACT

This research study aspires to explore the factors determining the perception of parents during online classes of their children and the challenges they face during online classes. To study this both descriptive study and quantitative study will be done to understand the perception of parents and challenges faced by them during online classes of their children.

There were about 50 parents from both public and private schools taken purposively as the sample. 10 questions posted on Google Form as the instrument. The maximum number of responses has been given by the parents of private schools.

The results showed that the implementation of e-learning brought two perceptions on the benefits and challenges. The benefits associated with E-learning is to provide an individualized experience and flexibility system of education, to minimize the possibility of the children to get infected by the Covid-19, to have better relationship between the kids and parents, to enforce as well as boost the parents' digital literacy as well as creativity in carrying out the learning material.

Further perception mentioned that the implementation of E-learning also brought certain challenges to many parents such as, requiring more expenses to buy the internet, causing the kids less motivated and irresistible in learning, raising the work load of the parents, time inefficiency for working parents by spending more time to assist the kids during the learning, increasing the tense between the kids and parents during the learning and most important adversely affecting the health of the child.

Keywords: Educational institutions, E- Learning, Parents, Primary School Learning

IOT AND ITS APPLICATIONS

Mohit Kumar³⁰, Kushal Sharma³¹, Rupesh Rai³² and Anshul Dahiya³³

ABSTRACT

The internet of things is a catch-all term for the growing number of electronics that aren't traditional computing devices, but are connected to the internet to send data, receive instructions or both. The IoT brings the power of the internet, data processing and analytics to the real world of physical objects. IoT is made up of smart devices that are connected together to share the data over the network. IoT brings the strength of the internet, records processing and analytics to the actual global of physical gadgets. Internet of Things is remodeling everyone's lifestyles via provisioning features including controlling and monitoring of the related smart items. Thus, alongside bringing ease to the human lives, these devices are at risk of exceptional threats and safety demanding situations which does no longer most effective worry the users for adopting it in sensitive environments consisting of e-health and smart domestic and so on., but additionally pose threat for nourishment of IoT in coming days. This paper endeavors to present an overview of IoT along with the thorough discussion on the applications of IoT.

Keywords: Internet of Things (IoT), IoT application, Sensors

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COMPETITIVENESS STRATEGY IN DEVELOPING COUNTRIES

Dr. Munish Kumar Tiwari⁴⁴ and Mr. Amit Manglik⁴⁵

ABSTRACT

The main element of an industrial competitiveness strategy from the technology & innovation perspective are national partnership involving complementary actions taken by the government and the private sector, liberalization approach involving a mixture of incentive and supply side policy measures, and policies to promote the competitiveness of particular type of industrial clusters. The successful developing countries suggests that the following incentive and supply side measures are applicable to a liberalization plus approach means a stable and macroeconomic environment characterized by low budget deficits. Tight inflation control and competitive real exchange rates should be there. Outward oriented and market friendly trade rule emphasizing the breaking of import controls and tariffs to send signals to industry to restructure should be there. Strong export access means duty free access to raw materials and export marketing support and good international negotiations capabilities to get market access. Effective domestic competition rule with duty free entry and exit at the industry level should be there. A carefully managed programme of privatizing SOEs and a strong regulatory authority to deal with anti competitive practices should be there. A proactive foreign investment strategy emphasizes the targeting of a few realistic sectors and the host countries, overseas promotion offices as a public private partnership, competitive investment incentives and streaming investment approval processes should be there.

Key words: Competitiveness strategy, Liberalization, macro environment, micro environment, foreign investment strategy

PERFORMANCE AND MICROSTRUCTURE ANALYSIS OF COPPER AND BRASS ELECTRODE FOR AISI D204 DIE STEEL IN ELECTRODISCHARGE MACHINE

Girish Dutt Gautam⁴⁶ and Yashpal Singh⁴⁷

ABSTRACT

Electrical discharge machining (EDM) has been recognized as an efficient production method for precision machining of electrically conducting hardened materials. In the present work authors make an experimental attempt to compare the performance of copper with brass as an EDM electrode materials for machining AISI D204 die steel using Castrol oil (SE180) as dielectric media. Keeping all other machining parameters same, the hardened work material was machined with the both electrodes at different values of discharge current, pulse on time & pulse off time. The performance analysis is carried out on the basis of various output responses such as material removal rate, Tool wear rate and Surface Roughness. It is concluded that copper electrode shows better results than brass electrode in same dielectric media in term of better accuracy and trueness of the machined profiles. At the same time, it is observed that tool wear rate of copper electrode is less while on the other hand for the brass electrode material removal rate is low and tool wear rate is high.

Key words: Electro Discharge Machining, Material Removal Rate, Tool Wear Rate, Surface Roughness, Microscopic Profile

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DOES HR ANALYTICS LEAD TO COMPETITIVE ADVANTAGE? A STATISTICAL ANALYSIS USING PLS-SEM MODEL

Bhaswati Jana⁵¹, Monika Aggarwal⁵² and Tanuja Kaushik⁵³

ABSTRACT

The new millennium has witnessed the rising trend of technology adoption for competitive advantage. Human resource management is now adopting HR analytics for talent acquisition, talent management and talent retention to stay ahead of the competition and achieve competitive advantage. This research study makes an endeavour to understand how technological, organizational, environmental and ethical factors are making an impact on the competitive advantage of IT organizations that are adopting HR Analytics. The cross-sectional study was carried out among respondents in ten major cities of India. The data was collected from 263 respondents through a structured questionnaire constructed with 5-point Likert Scale. The data was analyzed using the statistical method of Partial Least Squares – Structured Equation Modeling (PLS-SEM). The major findings are that technological, organizational, environmental and ethical factors are making an impact on the competitive advantage. Ethics plays a mediator between the constructs technology, organization and competitive advantage but has no mediating role between environment and competitive advantage. The findings of this research study has both theoretical and practical importance as it explains the role of ethics in the TOE(Technology-Organization-Environment) Framework and how it can be leveraged to get competitive advantage.

Keywords: HR Analytics, technology, organization, environment, ethics, competitive advantage

AN OVERVIEW OF IOT: ARCHITECTURE AND CHALLENGES

Harshita Jayant⁵⁴, Vishal Kumar⁵⁵, Shivam Kumar⁵⁶ and Anshul Dahiya⁵⁷

ABSTRACT

We are in the field of technology, where the billions of physical devices are connected to the internet. Connecting all these devices with sensors increases intelligence and allow them to communicate without human-intervention, which we can termed as IoT. It can likely be used with Artificial intelligence and machine learning to give smart solutions, which in turn provides opportunity to be more efficient, improving and automating business process and services but with worldly technical issues. Despite of having many applications, IoT has been facing many challenges. These challenges, existing architectures and enabling technologies in IoT enhance the understanding of the state of the art IoT development. This paper gives an overview of IoT and brief information about its architecture and challenges.

Keywords: Internet of Things (IoT), IoT architecture, IoT challenge, Security and privacy

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THREATS AND PREVENTIVE APPROACHES FOR INFORMATION INTEGRITY IN WIRELESS NETWORKS

Bhupendra Kumar⁴³, Sunita Rani⁴⁴ and Arunangshu Pal⁴⁵

ABSTRACT

The Wireless Technology has become essential and integral part of our lives. It is being used at massive level currently and increasing at very higher pace. Due to its nature the wireless networks are more vulnerable in terms of information security. The information in wireless networks is available ubiquitously with lesser security platform [4]. In our previous article we enlighten main security threats on wireless networks which were named as CIAAS Pentagon [1]. CIAAS stands for Confidentiality, Integrity, Authentication, Availability and Secrecy. Among above all the critical components of wireless networks the Integrity is more crucial due to damage caused by misuse and falsification of information by challenging integrity of information. In this paper we are highlighting some of the important factors which can threaten the integrity of information and how it can be prevented.

Keywords: Wireless Networks, Security Threats, CIAAS Pentagon, Confidentiality, Authentication, Integrity, Secrecy, Availability, Integrity Threats, Integrity Preventions

SOCIAL MEDIA MARKETING IN INDIAN MARKET PERSPECTIVE: ROLES AND CHALLENGES

Varun Kumar⁴⁶

ABSTRACT

In the present scenario of digitalization everyone is aware about the social media and social networking. Social Media provide the platform for sharing of things or ideas and information through the structure of digital networks and communities about similar interests, talk about favorable as well as unfavorable issues, places and analyze them. In India, social media marketing is in a developing stage; but it has potentiality to become more successful for Indian market and businesses if it is carefully incorporated in the Indian marketing mix system. In India, there are 448 million social media users as of January 2021 and it has increased by 78 million (+21%) between 2020 and 2021. In India the most popular social media platform is WhatsApp, followed by YouTube, Facebook, Instagram, and Twitter. Research design of this paper is descriptive and it discusses the role with significances and challenges and risks that social media marketing holds. Future prospect of Social Media and challenges, particularly mobile social networking, are also discussed. This paper is based on secondary data for conclusion and recommendation about the problem.

Keywords: Social Media, Social Networking, Marketing, Internet, eCommerce

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DESIGN AND IMPLEMENTATION OF SOLAR POWERED ELECTRIC VEHICLE

Rahil Imtiyaz¹, Aman Kumar², Gitanjali Mehta³ and Ruqaiya Khasam⁴

ABSTRACT

The accessibility of non-renewable energy source will diminish to increment popularity and will be depleted in near future. Along these lines, it is important to track down the substitute fuel to work the vehicles. In the non-sustainable power sources, solar energy is openly accessible. Solar based energy is utilized to create power through sun-rays. With the assistance of the innovation, we expect to make solar oriented power fueled vehicle is our venture. This kind of vehicle would be fit to supplant conventional ignition engines for ordinary vehicle exercises. The utilization of solar-based energy to control the vehicle takes into account greater appropriateness and a method for utilizing environmentally friendly power energy. Standardization of the vehicle this kind would drastically decrease the measure of CO2 delivered by the vehicles and diminish the oil demand. The primary equipment is which we used to build the solar car is the Solar panel. The solar-powered photovoltaic cells gather a segment of the solar power and store it in the batteries of the vehicle. prior that occurs, energy converters changes over the power gathered by the solar-based exhibit to appropriate system voltage rating. So, the batteries and the motor can utilize it. later the power is put away to the batteries. It's accessible to use by the motor and motor starts rotating the vehicle. As we utilized total hardware to tackle the issue of voltage variance because of movement of the sun, earth or cloud and so forth. We utilized a voltage regulator, transistor with a relay circuit alongside with the diode for this reason. Regulator thinks about the volts of the solar plates, the battery and afterwards, it's give the transistor maximum voltage to enact the relay which provide the appropriate and constant voltage to the vehicle. Nonetheless after all, this continues, the motor controller changes the quantity of energy that goes to the motor, to compare the throttle. The motor utilizes the energy to rotates the wheels. For starters, the goal is to execute our thought on an essential model and a while later with the assistance of this model, by building constant solar charging electric vehicle we may broaden our future.

Keywords: Solar Car, Electric Vehicle, Photovoltaics, Renewable Energy

A REVIEW ON: AUTOMATED METHOD FOR DETECTION OF EYE DISEASES USING IMAGE PROCESSING ON RETINAL IMAGES

Mr. Amit Kumar Mourya¹, Mr. Dhananjay Singh² and Ms. Mala Yadav³

ABSTRACT

There are several eye diseases such as Glaucoma, refractive error, macular degeneration, Diabetic retinopathy etc. These eye diseases are responsible for lossing of vision worldwide. The number of people who having vision infirmity are in billions. More than 80 million people lossing their vision in india. Glaucoma is second leading eye disease which are responsible for blindness of people worldwide. In case of Glaucoma, there are no early symptoms. So people are not aware of it and it become severe. The cost of the treatment is also high. If once the damage is done then there is no treatment to make them healthy. So early detection is crucial for the prevention of Glaucoma. By early detection, we can halt the further da-maging of the optic nerve which is responsible for the Glaucoma. This pu-per will give brief introduction of Glaucoma detection and its classification.

Keywords: Retinal images, image enhancement, Segmentation, blood vessels extraction, feature extraction, myo-in-link ratio, Glaucoma

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CHALLENGES IN QUALITY OF EDUCATION IN HIGHER EDUCATION INSTITUTIONS (HEIS) OF PAKISTAN

Zohaib Hassan Sain¹

ABSTRACT

The purpose of this study is based on exploratory research to identify Challenges in Quality of Education in HEIs of Pakistan. In this research Curriculum, Corruption in education, Less training institutions, Teacher's behavior and less research work are independent variables and Quality of Education is dependent variable. Questionnaire will be as a tool for collecting data in this survey and source of data will be primary. Exploratory research approach is used to achieve the objectives of the study. In this regard primary data was collected from a sample of 100 students using close ended questionnaire. Then the data was analyzed through exploratory factor analysis to test the hypothesis and present the student's perceptions. From the last few years, Pakistan is facing a lot of challenges in education sector such as curriculum, less training institutions, corruption in education teacher's behavior, less research work. Emerging issues in education sector are less training institutions and trend towards research work which is essential to follow for the growth and strength of any economy. The purpose of our research is to identify the major challenges in educational sector in Pakistan which the educational sector is suffering from last few years. In future, we will research on the solution of these problems. To increase the literacy rate, the Govt. of Pakistan has announced that the education is compulsory for sixteen years old for every citizen. This attempt will play an important role in the development of Pakistan.

Keywords: Curriculum, Corruption, Teacher's Behavior, Research Work

APPLICATIONS OF TREE-BASED PIPELINE OPTIMIZATION TOOL (TPOT) IN MACHINE LEARNING

Archana Das¹, Saswat Das² and Naveen Rathee³

ABSTRACT

As the field of Data Science grows exponentially, we need a tool which makes Machine Learning more user friendly to non-experts. Due to this demand, the researchers have designed Automated Machine Learning (AutoML) tool such as Tree-Based Pipeline Optimization Tool (TPOT) which can use for automatic designing and optimization of processes in Machine Learning pipelines. It is an open source system of Genetic Programming (GP) based Automated Machine Learning system. It is useful for the optimization of Machine Learning models which are based on supervised classification tasks with maximizing accuracy level. It has a python library called TPOT, built on the top of SciKitLearn that uses GP to optimize the Machine Learning pipeline.

Keywords: TPOT, Machine Learning, Genetic Algorithm, Data Science, AutoML, SciKitLearn

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EXPLORING THE PERCEPTION OF THE GREEN HOTEL GUESTS TOWARDS GREEN PRACTICES

Uma Suhag¹⁰⁴ and Savita Maan¹⁰⁵

ABSTRACT

The hotel industry is continuously being used and this phenomenon will lead to the deterioration of the environment. Green hotels are new ventures for the tourism industry as repetitive usage in hotels limits the natural resources. Therefore, this study aims at analyzing green hotels' impact on the customer's perception and their selectivity toward such hotels. The first objective of the study is to find out the perception of consumers toward the green hotel. The Pro-environmental practices followed by green hotels play a vital role in protecting the environment and formulating a green initiative for society. Consumers who are using green hotels are ready to pay the premium for green services and refuse the services which are harmful to the environment to contribute toward environmental protection. To find out their satisfaction with the green services offered by green hotels is the next objective of the study. Self-awareness and mindfulness about the environment lead to the consumption of green hotel products and services. Overall perception towards green hotels, satisfaction with green practices and services, and self-consciousness and awareness towards the environment are studied here.

Keywords: Green Hotels, customer's Perception, environmentally friendly Practices, Customer satisfaction, Revisit intention

A REVIEW ON PULSED ND:YAG LASER DRILLING OF BASALT FIBER REINFORCED COMPOSITE LAMINATES

Girish Dutt Gautam¹⁰⁶, Kaushal Pratap Singh¹⁰⁷ and Ankur Bahal¹⁰⁸

ABSTRACT

In recent years, laser machining established itself a suitable process for making intrinsic and complex profiles in fiber reinforced composites. Now-a-days Basalt fibers are replacing glass and carbon fibers in various engineering sectors such as manufacturing, aviation, aerospace etc. Basalt fiber is a material made from extremely fine fibers of basalt, which is composed of the minerals plagioclase, pyroxene, and olivine. It is similar to fiberglass, having better physic-mechanical properties than fiberglass, but being significantly cheaper than carbon fiber. In the present article, recent advancement in Pulsed Nd:YAG laser drilling of Basalt fiber reinforced composite laminates are reviewed. Moreover, authors suggest the future direction for researchers in the same field.

Key words: Nd:YAG Laser, Laser drilling, Basalt Fiber, Composites.

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INFLUENCE OF EMOTIONAL INTELLIGENCE ON THE EMPLOYEES OF INFORMATION TECHNOLOGY SECTOR IN BANGALORE

Anni Arnav¹⁰⁹, Chetan T.R¹¹⁰ and Bindu H.G.¹¹¹

ABSTRACT

In various fields of psychology, it is known that the role of a human mind is, but Daniel Goleman, a prominent psychological scientist has said that 'the very last circuit throughout the brain in becoming matured is a portion of the brain that supports the mental as well as the social intellect. We understand each other, especially when working in teams, when we realise the nature and basis of these emotions. Emotional intelligence becomes more critical as teams are cultured around the globe, as emotional experiences and how they express themselves become more complex. Emotional intelligence at work therefore helps in the understanding, communicate and management of healthy relationships and the resolution of stressed problems. Emotional intelligence has become one of the approaches to improve staff performance or productivity in competitive environment. This strategy helps the employee improve his efficiency without taking monetary benefit into account. The companies look forward to the emotionally smart people today. The effect and importance of Emotional Intelligence on the success of workers was acknowledged by most organisations. It is also seen that managing emotions in workplace has gained a lot of attention in management. This study aims at exploring the influence of Emotional Intelligence on the workplace, employee's performance and productivity in IT Sector. There is need for the study because of the competitive situation and rat race, staffs tend to stress and lose out on emotional outburst which in turn leads to lower performance and productivity at all levels. The study was focussed on Information Technology sector employees who were the respondents. 219 responses representing the total population are considered for the study and a convenient sampling technique is adopted for the data collection. The study revealed that Emotional Intelligence plays an important role in managing emotions of employees. With proper training and guidance employees can manage their emotions which will help them to increase productivity and perform better.

Keywords: Communication, Emotional, Intelligence, Organization, Psychology

A REVIEW PAPER ON CONSTRUCTION MANAGEMENT USING BIM SOFTWARE. GAUR YAMUNA CITY, G.B NAGAR. UP

Prince Kumar Ray¹¹² and Avinash Kumar¹¹³

ABSTRACT

As we know that over the 60% of major capital projects fails to meet cost and schedule target, 30% of construction cost is rework and 55% of maintenance remains reactive overall in construction due to unvisualization towards each element of project. In order to overcome these all problem BIM software's are the best tools and also the purpose this paper will be to identify all the problems seen in construction phase and I use some BIM tools like Revit Autodesk, Naviswork, Tekla structure, & one non-beam software ME-Exel for Project planning etc. to overcome this problems. I have selected 2 residential building projects.

Keywords: RCC-structures, Residential building, Revit, Tekla structure, Naviswork

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CAREGIVING: DO FEMALES FARE BETTER THAN MALES

Neeta Sinha¹¹⁴, Sakshi Pindoria¹¹⁵ and Supriya Pal¹¹⁶

ABSTRACT

India is a collectivist country. Here elderly/ ill are responsibility of the family members, not the society. When a disabled is cared for by the family members he is likely to feel better and happier. This brings positivity and happiness among the mentally challenged. Owing to the social construct, women, especially in India, are preferred as the natural caregivers for persons with mental illness. Patients with mental illness need assistance or supervision in almost all of their daily chores which often places a major burden on their caregivers, thereby placing the latter at a great risk. However in many cases men too play a prominent role as caregiver. The present study was undertaken to find out whether caregiving was easier for male or female caregivers of patients with different psychological and psychiatric disorders. Though caregiving is challenging for either, it gives immense satisfaction and joy to the family members, which is reflected in their positive approach. The total sample size of the study was 228 (86 male and 142 female). The data was collected from Bhuj and in and around Ahmedabad with the help of Involvement Evaluation Questionnaire (IEQ). Despite having significant variance between life challenges, males appeared to have a better quality of life compared to women.

Keywords: Caregiver, mental health, positive approach

AN EMPIRICAL STUDY: CYBER CRIME AND CYBER SECURITY

Sonam Chaudhary¹¹⁷, Neetu Singh Rajput¹¹⁸ and Dr. Yashpal Singh¹¹⁹

ABSTRACT

After the invention of internet the world has become more advanced in communication. After 2017 In India the use of internet has increased but disadvantages of internet has also increased. The main disadvantage of internet in today's world is cyber-crime. From the last five years cyber-crime is growing very rapidly throughout the world. Cyber crime is nothing but it is illegal act in which a computer is a tool or the subject of crime. Computers have grown incredibly widespread and popular in recent years. Cyber-crime is becoming a major concern. However, the misuse of technology in cyberspace has resulted in both domestic and international crimes. The Indian parliament has passed legislation aimed at regulating cyber crime and safeguarding the country's technological growth system. The law on technological information was approved in the year 2000. It was India's first global law to address technology in the areas of e-commerce, e-governance, electronic banking services, and computer crime penalties and punishments. The topic of this Paper is types of cyber crime that are commonly encountered, as well as strategies to avoid cyber crime.

Keywords: Cyber Crime, Cyber Security, Information Technology, Computer Hackers, Cyber Attacks, Cyber Ethics

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AI ALGORITHMS FOR HEALTHCARE APPLICATION

Archana Das¹⁵⁰, Saswat Das¹⁵¹ and Naveen Rathee¹⁵²

ABSTRACT

Artificial Intelligence (AI) algorithms are rapidly used in different fields of healthcare systems. AI algorithms can be very useful in detection, diagnosis, monitor and treatment of disease. It is proving the biggest aid during pandemic. It is not only useful for the diagnosis, but prediction of the disease can be possible easily. Identification and diagnosing of any disease is the most important point for its treatment. So, this the most challenging work in the medical science. AI algorithms are very helpful in different situations in medical science. Early prediction of disease can be possible by using AI algorithms. The scientists are used different types predictive models for the early detection and diagnosis. So, now-a-days, it can help to minimize death rates. AI algorithms are applicable to each and every fields of medical science such as diagnosis, treatment, personalized medicine, patient monitoring, etc. These algorithms can able to analyse the large amount of data which are generated in healthcare. AI supports in places where there is the limitations of human knowledge. It requires less time and cost for performing any task in medical science. AI algorithms simplifies the work of patients, doctors and hospital administrators. The branches of AI algorithms i.e. many Machine Learning (ML) and Deep Learning (DL) algorithms are used in healthcare.

Keywords: Artificial Intelligence, Machine Learning, Deep Learning, Healthcare, medical science

DIGITAL MARKETING ADOPTION AMONG STARTUPS IN INDIA: A BEHAVIOURAL REASONING THEORY (BRT) PERSPECTIVE

Jayanta Chakraborti¹⁵³, Anirban Dutta¹⁵⁴, Bhaswati Jana¹⁵⁵ and Sushil Maurya¹⁵⁶

ABSTRACT

India is currently going through a twin revolution of technology innovation and surge in entrepreneurial activities. Despite the pandemic and economic slowdown, thirty three Indian startups achieved the status of Unicorn in 2021. But research data also shows that 80-90% of startups fail within the five years of inception. One of the major reasons given for failure of startups is lack of adequate marketing or promotional activities. Startups fail to attain adequate visibility in the market because of their budgetary constraints. In this scenario, digital marketing offers the startups a range of tools and technologies that can deliver higher return-on-ad-spend (ROAS). This research study uses the behavioural reasoning theory (BRT) given by James Westaby to understand the reasons for and reasons against the adoption of digital marketing technology by startups. This study is very important as it helps the startups and entrepreneurs to understand the factors that motivate or inhibit the adoption of digital marketing technology. This research work is also very important for policy makers as it will help them to design and implement suitable policies to incentivize and motivate the startups to use digital marketing technology to optimize their promotional budget and achieve higher profitability.

Keywords: startups, entrepreneurs, digital marketing, behavioural reasoning theory

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THIRD EYE: A REVIEW ON WEARABLE TECHNOLOGY

Rishikesh Chaudhary¹⁶⁹, Aakash Singh¹⁷⁰, Shubham Gola¹⁷¹, Ritik Patel¹⁷² and Mekhala Gupta¹⁷³

ABSTRACT

The world health organization survey suggests that 39 million people are blind globally. These visually challenged requires special types of books to read. Reading books for visually challenged people is a difficult task. In this project, a wearable 'Third Eye' is presented. The third eye is a system that gives free movement to visually challenged people and enhances the lifestyle of visually challenged people. It uses its sensor and other things to detect obstacles coming in the path of visually challenged people and also helps blind people. It can assist visually challenged people in reading the book and understanding every book. The third eye can scan the whole book by its cam and then can read the complete book for blind people. As a result, blind people are not dependent on anything or anybody. The proposed system has numerous features in comparison to other similar systems. It is known that it will be a useful tool to improve the quality of, independent life.

Keywords: Blind people, visually challenged people, Arduino, Uno, Horn, Third eye

GOODS AND SERVICES TAX (GST) IN INDIA: AN OVERVIEW OF GSTR -1 COMPLIANCE FROM RETAILER'S PERSPECTIVE

Sandeep Kumar Sahu¹⁷⁴

ABSTRACT

Taxation system in India has always been a matter of discussion, amendment or insertion of some proposed changes under direct tax as well as indirect tax both. The Goods and Service Tax (GST) is one of the biggest economic and taxation reforms undertaken under Indirect tax structure in India. The main objective of the research proposal is to examine the total number of GSTR-1 return filed and its growth by the traders in the respective states overall month, quarter wise from the inception of the law in the year 2017 till 31st January 2022. This study is based on conceptual framework and actual data incorporated in the table and charts from authorised sources. The study finds out that year by year the traders and business segments have compliance the filing of GSTR-1 relating to statement of outward supply of goods and services. However there was the related impact at initial year in the year 2017-18 and also Covid impact in the year 2020-21.

Keywords: Goods and service tax, Indirect Tax, Traders, GSTR-1 return, outward supply

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TAXATION STRATEGY OF SELECTED INDIAN FERTILIZER COMPANY- PRE AND POST GST

Sanjeev Lohani¹⁹³

ABSTRACT

GST is a value-based indirect tax which levied on the value added by the supplier. GST has been introduced in more than 160 countries and France was the first to introduce in 1954. In India GST is implemented from 1st July 2017 with motto of one nation, one market and one tax. In Indian taxation history, the introduction of GST brought the revolutionary changes which subsumed all the multiple indirect taxes under a single umbrella. The purpose of present study is to investigate the tax strategy of selected fertilizer pre and post GST implementation

The aim of this paper to analysis and suggests implementation of GST in selected fertilizer company. The stated aim of the study was to examine the provisions under GST Laws to ascertain the impact of GST on Fertilizer Sector in India, especially RCF.

Keywords: goods and service tax, fertilizer industry, value added tax

DENOISING METHOD BASED ANISOTROPIC DIFFUSION MODEL FOR IMAGE PROCESSING

Khurshheed Alam¹⁹⁴, Santosh Kumar¹⁹⁵, Nitendra Kumar¹⁹⁶ and Surya Kant Pal¹⁹⁷

ABSTRACT

A time-dependent model is a key concept in image denoising and deblurring. In this paper, we present a priori smoothness-based anisotropic diffusion model for image denoising and edge detection. The proposed model is very efficient for noise removal of noisy images in comparison to the other classical anisotropic diffusion model. The finite difference method is used to discretize the proposed model. The numerical results are given in terms of edge detection.

Keywords: Second order PDEs, image denoising, nonlinear diffusion model, explicit scheme

REVIEW ON BANDWIDTH IMPROVEMENT OF TRUNCATED SQUARE SHAPED PATCH ANTENNA

Dhananjay Singh¹⁹⁸, Amit Kumar Mourya¹⁹⁹, Yashpal Singh²⁰⁰ and Mala Yadav²⁰¹

ABSTRACT

The conventional Rectangular Microstrip patch antenna has very narrow impedance bandwidth, typically of few percent. While Microstrip patch antenna have the advantage of low cost, thin profile, light weight, ease of fabrication, conformable to mounting surface and being integrated in active devices. This paper introduces geometry of corner truncated square shape MPA (Microstrip Patch Antenna) results in increase in Bandwidth from 3.117% to 9.876%. The geometry of slotted and corner truncated square shape MPA is designed on a FR4 substrate with a dielectric constant and tangent loss of 4.4 and 0.035 respectively.

Keywords: Bandwidth, Rectangular microstrip patch, antenna, Slotted Rectangular microstrip, patch antenna, Return Loss, Coaxial probe feed, 2D Radiation pattern

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A REVIEW ON SONG RECOMMENDATION APPROACHES

Shruti Swarup Srivastava²¹⁶, Tushar Vij²¹⁷ and Kirti Jain²¹⁸

ABSTRACT

years, recommendation systems have been used to make people's lives easier with product recommendations used by Amazon/Flipkart, movie recommendations used by Netflix/Amazon. The idea of our project is to integrate the recommendation system with user emotion detection in a seamless way. The user's emotion will be captured through a live feed/picture and his/her emotion will be predicted by a trained model, based on the predicted emotion, the user will be given song recommendations containing songs based on the emotion.

Keywords: Emotion Detection, Deep Learning, Web Development, Recommendation System

EFFICIENCY EVALUATION OF INDIAN BANKING (A COMPARATIVE STUDY OF PUBLIC AND PRIVATE SECTOR BANKS)

Rahul Mathur²¹⁹

ABSTRACT

The operating efficiency of the banks determines the success or failure of the banking sector. Working efficiency is defined as the skill or technique of making the most out of the available resources. It is generally accepted that the efficiency of banks plays a pivotal role in the productivity of the economy. Banking has played an un-denying relentless role in the banking system of modern India. It is not only profitable but also adorable. The efficiency of the banks is crucial for the existence of smooth banking trade locally and internationally. It is expected that Banking institution should earn profit and maintain reasonable level of efficiency. Performance of banks is dependent on several factors in which efficiency is most important. In this study efforts have been made to judge the operating efficiency of selected leading public sector and private sector bank. Efficiency of public and private sector bank analyzed on the basis of some important ratios. The results provide strong evidence that the Private Sector Banks proved their better performance on the basis of profitability and efficiency selected for the study.

Keywords: Public Sector Banks, Private Sector Banks, Efficiency

REVIEW PAPER ON EFFECT OF ADMIXTURE AND MINERALS ON CONCRETE STRENGTH

Harshit Choudhary²²⁰ and Avinash Kumar²²¹

ABSTRACT

Silica fume and mineral powder are utilized for composite readiness of high-strength lightweight concrete in this paper. The outcomes show when we increment the level of the fly ash from 31% to 39.99% of Silica Fume, the strength of concrete is expanded. There is a decline in strength when 5% of Fly Ash is added with 5 and 15% of Silica Fume. The amazing composite impact is observed at the point when fly ash and mineral powder are consolidated together, the pozzolanic reaction becomes all the more complete, and the interface change district between the lightweight aggregate and concrete glue sets further, which makes the construction of the lightweight concrete substantial and durable.

Keywords: fly ash, silica fume, Lightweight Aggregate, Concrete, Admixtures, Super plasticizer

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DESIGN OF WHEELCHAIR

Prashant Kumar²³⁸, Shabreen Perween²³⁹, Shreyanshi Pundeer²⁴⁰, Amit Singh²⁴¹ and Archana Das

ABSTRACT

Technology has made a drastic change in the medical field but there are still some people facing some problems. The main motive to modify WheelChair as SMART WHEELCHAIR is to help physically challenged person and elderly people facing a problem and a lot of energy is wasted operating a manual WheelChair. So, the thought of SMART WHEELCHAIR arose in our mind. It is a mechanically controlled device designed to have self-mobility with the help of the user's command. This reduces the user's human efforts and forces to drive the wheels of WheelChair. Furthermore, it also provides an opportunity for visually or physically impaired persons to move from one place to another. This machine can also be used in old age homes where the old age persons have difficulties in their movement. This machine serves as a boon for those who have lost their mobility. To reduce the burden of the people who push the WheelChair, we are providing the smart control such as- Touch Control, Gesture Control, Voice Control, Joy Stick Control. Cost of this type of WheelChair will be affordable for all types of hospitals and it will be beneficial for patient handling. It is expected that this SMART WHEELCHAIR would enable people's better medical care. With the future recommendations of this project, it would extremely reduce time and man-power of the old age home staff.

Keywords: Self mobility, Smart control, User command

AN OVERVIEW ON NEGATIVE WORKING CAPITAL AND ITS IMPACT ON REVENUE GENERATION

Smitha Pillai²⁴², Binoy Arickal²⁴³ and Ashish Dilraj²⁴⁴

ABSTRACT

Working capital (WC) is considered one of the most significant components of financial management. The management of working capital is concerned with the current assets as well as current liabilities of the business in order to manage short-term finances. When the firm's current assets are less than the current operating liabilities, then working capital becomes negative. Negative working capital (NWC) has a greater impact on liquidity as well as revenue generation of the firm. Earlier, NWC was considered a risk in financial management but currently, firms with NWC are making higher profit by utilizing their negative working capital. NWC shows the managerial efficiency of the business for short-term finances. By giving importance to the NWC, this review paper focuses on the concept of negative working capital and its impact on revenue generation. There is a vast scope of research in financial management, more particularly in negative working capital management, to investigate new approaches or concepts for increasing the profitability of the business.

Keywords: Current Assets, Current Liabilities, Negative Working Capital (NWC), Working Capital (WC), Working Capital Management (WCM), Profitability

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ABSTRACT

Quantum theory is one of the most successful theories that can have influenced medical Science progress during the twentieth century. The study was conducted to examine the applications of Quantum Computation in Medical Science. Quantum computing solves numerous problems using many algorithms. Through this technology, we can solve many problems in medical science. The work of advancements in medicine and biomedical research has been increased rapidly post Covid-19. This paper surveys and enlightens the vital factors between Quantum computing and medical treatments, the prevention of diseases, by providing patient care.

Keywords: Health monitoring systems, Quantum Computing, Medical science, Biomedical

THE IMPACT OF ARTIFICIAL INTELLIGENCE IN THE TRAVEL, TOURISM AND HOSPITALITY INDUSTRY: AN INFLUENTIAL STUDY

Dr Vijay Kumar²⁹¹ and Ms Neelu Verma

ABSTRACT

The intention of this article is to emphasize the role of artificial intelligence (AI) in the tourism industry. Various technologies are being combined to improve service and customer experience in tourism. Expected changes and challenges in tourism in the future are the focus of this paper.

In the form of a point of view, a systematic study will be presented on emerging artificial intelligence and technologies that will be applied in the tourism sector. Artificial intelligence is certainly improving experiential tourism services; however, it cannot beat the human touch, which is a determinant of experiential tourism. Artificial intelligence acts as an effective complement and a new dimension to the future of tourism. With the rise of artificial intelligence for the tourism and hospitality industry, it has become easier to make tour package arrangements. Amnesty International (a non-profit org) provides automated, personalized and insightful travel services. Artificial intelligence allows tourists and travelers to learn about their behaviors, interests, and tendencies and provide a personalized experience. The days are gone when the customers are consulting travel agencies, meeting with tour operators, meeting with them physically, and enjoying an endless series of worrying phone calls inquiring about travel arrangements. New emerging technologies such as Tour bar, virtual reality, and language translators, etc. It can be effectively applied in the travel, tourism, and hospitality industries.

This point of view analyzes the application and role of artificial intelligence and technologies with the help of relevant industry examples and theories. This document highlights the different technologies used and that will be used in the future.

Keywords: tourbarm, technologies, artificial intelligence, computers

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A REVIEW PAPER ON CONSTRUCTION MANAGEMENT USING BIM SOFTWARE. REMOVE AND REPLACEMENT SITE, JEWAR –G.B NAGAR.

Narendra Thakur³⁰³ and Avinash Kumar³⁰⁴

ABSTRACT

As we know that over the 60% of major capital projects fails to meet cost and schedule target, 30% of construction cost is rework and 55% of maintenance remains reactive overall in construction due to unutilization towards each elements of project. In order to overcome these all problems BIM software's are the best tools and also the purpose this paper will be to identify all the problems seen in construction phase and I use some BIM tools like Revit Autodesk, Naviswork , Tekla structure, & one non-beam software ME-Exel for Project planning etc. To overcome this problems. I have selected 2 residential building projects.

Keywords: RCC-structures, Residential building, Revit, Tekla structure, Naviswork

EFFECT OF CUSTOMER EXPECTATIONS AND BEHAVIOR TOWARDS ONLINE BUYING DURING PANDEMIC

Raj Kumar³⁰⁵, Ravi Sanwal³⁰⁶ and Sachin Kumar³⁰⁷

ABSTRACT

The present customers are exceptionally drawn in the by e-advertising instead of customary buy . Social media showcasing assists organizations with selling the item in the advanced stage and the client can be ready to recognize the different assortment of items in a solitary second. In a solitary stage, the advertiser can draw in mass clients. The clients can be ready to purchase or look through the items at their own advantageous time. Globalization, Privatization, and Liberalization peculiarities changed the whole situation into a new stage called as Covid period. The COVID 19 pandemic period or lockdown period changed world history into a new method of trading goods. Customer purchasing conduct and the level of consumer loyalty is more analyzed towards the conventional technique. This study was conducted in the Delhi NCR. It is an empirical study and sample selected for this research, were 240 based on convenient sampling methods. The collected primary data were analyzed and computed. The variables of the study were tested using Chi square cross tabulation analysis.

Keywords: Customer satisfaction, Information technology and buying behaviour, Consumer expectations

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CONTRACEPTIVE BEHAVIOR AMONG POSTPARTUM AND POSTABORTION PERIOD IN INDIA

Anu Sirohi²⁰⁰, Piyush Kant Rai²⁰¹ and Surya Kant Pal

ABSTRACT

To investigate contraceptive behavior among women within the first fourteen months after live/stillbirth and abortion. Methods: Analyzed data on married women with detailed pregnancy and contraceptive behavior is taken from 2005-06 National Family Health Survey (NFHS), India. Coxproportional hazard (PH) regression model and cumulative hazard plots are used to analyze the timing of contraceptive use. Results: The analysis sample included 51801 women of which 37% had an abortion, 3396 had not initiated any contraceptive use in 14 months afterward. According to Cox regression analysis outcome of index pregnancy i.e. abortion or live/stillbirth significantly affect the timing of contraception use, other some determinant also have some significant effect on the timing of contraception use. Conclusion: Postpartum contraceptive use is low, counseling and services related to postpartum family planning should be strengthened in India.

Keywords: Pregnancy Outcome, Abortion, Contraceptive use, National Family Health Survey India

MWS HEADPHONE: - A NEW AND IMPROVED TECHNOLOGY

Rajat Verma²⁰², Satya Prakash Sharma¹⁰⁰, Avinash Kumar¹⁰¹ and Archana Das

ABSTRACT

We all know life is very precious but around 1.32 lakhs accidents are claimed all over India. These accidents are happening because many times in the long journeys driver start sleeping while driving and many times accident happens because of driver consume alcohol while driving many people are dead because of accidents and not getting help at the right time that's why we are creating MWS headphone. MWS headphone stands for music with security headphone. The purpose of this project is to stop and reduce road accidents. MWS headphone is a headphone used for security purpose. First MWS headphone sense the eyes of driver by its eye blink sensor that driver is sleeping or not. If driver is sleeping or snoring then it alert the driver by its horn or by its vibration device. And by chance accidents happens that MWS headphone send the emergency message to the driver's family member, ambulance and police with the driver's location. And it also detect the alcohol consumed by the driver and it send the alcohol consumption level with the message to the driver's family member and the respective authority.

MWS headphone is looks like simple headphone that's provide you security. The price of MWS headphone is very less so everyone can purchase it and use it because MWS headphone is user friendly device.

Keywords: MWS headphone, GPS and GSM technology, Arduino uno, alcohol detection system, eye blink sensor, accident

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ISSUES FACED BY COLLEGE STUDENTS DUE TO THE SUDDEN SHIFT FROM TRADITIONAL TO E-LEARNING

Ms Akansha Rehani¹⁷¹ and Mr Kunal Kumar Jha¹⁷²

ABSTRACT

Educational institutions like schools, colleges, and universities in India were based only on traditional methods of learning, that is, they followed the traditional setup of face-to-face lectures in a classroom. The sudden outbreak of a deadly disease called Covid-19 caused by a Corona Virus (SARS-CoV-2) shook the entire world. The World Health Organization declared it as a pandemic. This situation challenged the education system across the world and forced educators to shift to an online mode of teaching overnight using available educational platforms, despite the challenges faced due to this sudden transformation. Many academic institutions that were earlier reluctant to change their traditional pedagogical approach had no option but to shift entirely to online teaching-learning.

This study aims at understanding, evaluating & explaining the challenges and problems faced by college students due to the sudden shift from traditional to E-learning within such a shorter period and to study the impact on academic performance of college students due to the shift from traditional to E-learning.

Keywords: Educational institutions, E- Learning, Traditional Learning, Challenges

A SYSTEMATIC REVIEW ON SMART MANUFACTURING-BIG DATA AND IOT

Mekhala Gupta¹⁷³ and Dr. Yashpal Singh¹⁷⁴

ABSTRACT

Nowadays, Concepts of internet of things are used for establishing smooth connection between individuals, data and other types of procedures. These are applied in wide sectors such as healthcare, transportation and many other by accessing the information about the appliances of smart homes, accessing location, management of various diseases, and tracking the records and persons. This review paper describes the impact of big data and internet of things on smart manufacturing practices. Also, the security and privacy issues related to use of smartphones in various sectors are discussed. Moreover, the challenges and opportunities in IoT with their countermeasures are also explained in this study.

Keywords: IoT, Big Data, Smart Manufacturing, Smartphones, Security

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SMART IRRIGATION SYSTEMS USING INTERNET OF THINGS FOR SMART FARMING

Mahamudul Hasan Pretom,³⁸³ Jagdish Singh³⁸⁴, Shubham Pandey³⁸⁵ and Amrita Amrita³⁸⁶

ABSTRACT

This paper proposes an intelligent irrigation system with the assistance of the Internet of Things (IoT). IoT can be referred to as physical objects that can communicate and generate relevant data. This paper solves the problem of water wastage on farms by automating the irrigation system. The system has been developed using specific sensors such as temperature, soil moisture and humidity. Arduino microcontroller and Global System for Mobile Communication (GSM) are also used, providing reasonable handling. It uploads the data to the database and displays the readings on a web application. Finally, the sensor's reading values control a pump/motor. As a result, this paper automates the irrigation system by analyzing soil moisture and temperature, covering essential aspects such as labour, power consumption, reliability and cost.

Keywords: Internet of Things (IoT), Arduino, Global System for Mobile(GSM)

A STUDY ON SECURITY AND PRIVACY CHALLENGES OF BIGDATA

R Shashidhar³⁸⁷, Ramesh Chandrasasa³⁸⁸ and Pooja P R³⁸⁹

ABSTRACT

Big data is a term which used to describe data that is quite large and cannot be processed using standard computing technology, nor can it be stored in standard storage space. We need extra storage space and extra processing power to process data, such as parallel computing. This study concentrated on threats to security, as well as issues with big data confidentiality. Big data privacy is divided into 3 phases: creation of data, storage of data, and processing of data. This paper also discusses the methodology used for privacy in big data, as well as the difficulties that these methodologies endure. The purpose of this study is to investigate the existing data protection techniques.

Keywords: Security, Privacy, Big data, Techniques

NORMAL SPACES IN TOPOLOGICAL AND BITOPOLOGICAL SPACES

Yogesh Kumar³⁹⁰, Pradeep Kumar³⁹¹, Ishwar Singh³⁹² and Prabhat Kumar³⁹³

ABSTRACT

In this paper, we introduce normal spaces by using closed sets and the bitopological analogue of normal spaces by naming as pairwise normal space. We also discussed many properties of both spaces.

Keywords: closed sets, open sets, cl ker

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ARTIFICIAL INTELLIGENCE BASED VIRTUAL CLASSROOMS IN TEACHER EDUCATION

Maninder Kaur²⁹⁴

ABSTRACT

Artificial Intelligence is a way for making a computer, a computer-controlled robot, or a software think intelligently, in the similar manner the intelligent human think. AI will not only prepare quality teachers but will also improve the quality of education. National Education Policy-2020 has also laid emphasis on introduction of AI in the education system. Teacher education is a process for preparing quality teachers through pre-service and in-service education programmes. Therefore, there is urgent need to promote AI and Robotics system in teacher education programmes for preparing effective and efficient teachers. If we fail to introduce this system in teacher education programmes, we will not be able to produce and prepare quality teachers and students. The teachers prepared through traditional way will not be able to face the challenges of 21st century. The only path for promoting this system is to integrate AI and Robotic system in different activities of teacher education programmes. The focus of the present paper is to highlight the potential of Artificial intelligence and robotisation to increase the productivity that could make everybody better off, but only if they are well managed.

Keywords: Artificial Intelligence, Robotics Technology, Virtual Reality, Productivity

COVERAGE STRATEGIES FOR LIFE MAXIMIZATION IN WIRELESS SENSOR NETWORK

Sonia Rani²⁹⁵, Kamal Deep²⁹⁶ and Yaspal Singh²⁹⁷

ABSTRACT

How to cover an interested area is one of the major difficulties in a wireless sensor network (WSN). We look at the area coverage problem for WSNs with changing sensing radii in this work. There are many other coverage strategies, but we evaluate cluster-based coverage, grid-based deployment, and computational geometry based on idle nodes. If the sensor node's sensing range is limited in a cluster-based system. The number of idle nodes has been increased to the point where idle nodes are unable to connect with the cluster head and are unable to cover the desired area. Grid computing is the separation of resources from different sites in order to tackle a problem that cannot be handled with a single computer's processing power. Triangular, square, and hexagonal deployment methods are the most common Grid-based deployment strategies. However, because the target field is irregular, grid-based deployment techniques cannot be used directly on the target. As a result, we suggested an approach in which the target field is first partitioned into a collection of triangles using Delaunay Triangulation, followed by the triangular node deployment scheme for each triangle. This paper provides a coverage technique for wireless sensor networks that is both efficient and effective.

Keywords: Wireless Sensor Network, Clustering, Cluster head, Delaunay, triangulation, Grid based, Voronoi diagram

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MATHEMATICAL MODELLING OF SKIN BURN INJURY DUE TO PERIODIC HEATING SOURCE

Prabhat Kumar⁴¹⁷ and Madan Mohan Dixit⁴¹⁸

ABSTRACT

In this paper, we provide a generalized mathematical model of Burn Injury due to sinusoidal heat source at the skin surface. Here skin treated as porous medium for the flow of the heat flux, which is flowing normal to the surface of skin along the depth of skin. Application of double Fourier Cosine Transform converts this problem into a boundary value problem of ordinary differential equation. The solution, thus obtained is transferred into a standard form with the help of Inverse Discrete Fourier Cosine Transform. Finally, the numerical results obtained for the distribution of the temperature in different layers of skin during burn injury are discussed and displayed graphically.

Keywords: Bioheat transfer equation, Sinusoidal heat source, Fourier Cosine Transform

CHALLENGES AND STRATEGIES IN THIS COMPETITIVE BUSINESS ENVIRONMENT- NEW MARKETING PARADIGMS AND TACTICS

Seema Singh⁴¹⁹

ABSTRACT

Understanding the environment within which the business has to operate is very important for running a business unit successfully at any place. Marketing environment is giving new opportunities and threats for business. There has been shift in broadcast marketing to interacting marketing: from transactional marketing to relationship marketing and from mass marketing to one-to-one marketing.

By conducting regular and systematic environmental scanning marketers are able to revise. Globalisation has opened vast opportunities as well as challenges of fierce competition in developing economies. Survival and growth in such an environment require achieving global competitiveness. Since globalisation has changed and opened up the world as a market place for us, be it for products, people or financial resources, so to capitalize on this opportunity, organizations have to be moulded to become globally competitive. The present research paper focuses on the various parameters, challenges, opportunities and competitive marketing strategies for strengthening the organizational competitiveness and realm of global competition as well as exploring the further area of research in this context. The research is based on secondary data and literature review available in books, journals, internet and other sources. Globalisation and technological advancement have changed the entire business environment.

The marketers must transform its business as per changes in marketing environment to withstand and succeed in the business. Globalisation, CRM, social media, Technology and various Competitors made this business environment more competitive.

Keywords: Competition, Globalisation, Competitiveness, Business Environment, Paradigm

COST AFFECT ON 3D PRINTING TECHNOLOGY AND ITS SCOPE IN FUTURE: A STUDY

Anubhav Bhatt⁴²⁰, Ambuj Pathak⁴²¹, Mohan Pandey⁴²², Dr. Sonia Rani⁴²³ and Mr. Ankit Kumar⁴²⁴

ABSTRACT

Three-dimensional (3D) printing (3DP) is a technology offers a promising value proposition across multiple manufacturing industries with next to perfect and effective performance. Despite the number of product benefits with the technology, its rate of adoption is not what was foreseen by the industry and the opposite was promised in the industry predictions. 3D printing is only adopted by a handful of institution/facilities and individuals for academic, research and experimental purposes. In addition, multiple countries have invested heavily in encouraging the adoption and use of 3D-printing in manufacturing. Despite this, it is hard to find research articles/studies on addressing the question why is 3D printing not being adopted and implemented on a broader scale? This study shall experiment with 3D printer and two most generally used filaments (PLA and PETG) to see if cost is the factor affecting the adoption and growth of 3D printing technology.

Keywords: 3D-printing, adoption, filaments, PLA, PETG, Cost

OBJECT DETECTION IN COMPUTER VISION USING DEEP LEARNING APPROACHES

Archana Das⁴²⁵, Saswat Das⁴²⁶ and Naveen Rath⁴²⁷

ABSTRACT

From last many years in Computer Vision, Object Detection has been the most challenging area of research. To classify, localize and find the range of the object are the main goal of Object Detection. It is widely used in computer vision tasks such as face recognition, face detection, autonomous self-driving cars, and many more. Identification and detection of the objects can be easily done by the human beings. Humans can able to identify multiple objects very easily and accurately. They can also do multiple tasks at the same time. This can be happened by the human beings due to their own intelligence. But the machines need to be very confident to detect the objects so safely and securely in the real world. It means, the machines must measure the certainty of the object. But, now a days, finding out the certainty of the objects is the biggest challenge in Computer Vision. Nowadays, the autonomous systems play a vital role such as driverless cars where the object detection need to be performed for the awareness of other vehicles, pedestrians, and obstacle which occur on the road. In future, the robots will have capable to detect a large range of household objects in healthcare and domestic services. This paper illustrates various Deep Learning approaches which are based on Convolutional Neural Network (CNN) for object detection. Deep Learning frameworks and services available for object detection are also explained. These techniques for state-of-the-art object detection systems are estimated in this paper.

Keywords: Computer Vision, Convolutional Neural Network, Deep Learning, Object Detection, Autonomous System

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A REVIEW ON SMART WHEEL CHAIR USING IOT

Ayush Saxena⁴⁴⁰, Rajeev Ranjan⁴⁴¹ and Dhananjay Singh⁴⁴²

ABSTRACT

There are many individuals with disabilities. So, there needs can be satisfied with power of wheelchairs. Some disabled find it very difficult to operate a standard power of wheel chair. To overcome this, researchers have used the technologies that was earlier developed for mobile robot to create smart wheelchairs. Smart wheel chair reduces the physical perceptual and cognitive skills that is necessary to operate a power wheelchair. Here, we a developing a smart wheelchair component system with minimal modification this can be a variety of commercial power wheel chair. Up to 40% disabled community members find difficulty in operating standard power wheelchair. This population includes persons with low vision, visual field neglect cognitive deficits. In our smart wheel chair, we use the technology known as Internet of Things (IoT). And this smart wheel also works on hand gesture, and other party can also control the smart wheelchair if the user is authorized and has the access to control it.

Keywords: IoT, Wheel chair, Sensors

MATLAB PROGRAMMING ON SOME SUM DIVISOR CORDIAL LABELING OF CIRCUIT RELATED GRAPHS

Pariksha Gupta⁴⁴³, Sangeeta Gupta⁴⁴⁴ and Sweta Srivastav⁴⁴⁵

ABSTRACT

Networks are often referred to as graphs and circuit in networking is a path that starts and terminates at the same vertex. In this paper we have investigated the path union of two copies of cycle $C_m(m \in \mathbb{N}, m \geq 5)$ with one chord for one cycle and twin chord for another cycle is a sum divisor cordial graph and also generated the MATLAB algorithm for finding edge label vector and vertex label vector of cycle with one chord path cycle with twin chord satisfy sum divisor cordial labeling.

Keywords: Networking, MATLAB Program, Divisor cordial labelling, Sum divisor cordial labelling, cycle with one chord, cycle with twin chord

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SEGMENTATION TECHNIQUES IN IMAGE PROCESSING IN MATLAB TOOL

Mr. Amit Kumar Mourya⁴⁵², Mr. Dhnanjay Singh⁴⁵³, Keshaw Kumar Singh⁴⁵⁴, Kuldeep Singh⁴⁵⁵ and Anurag Maurya⁴⁵⁶

ABSTRACT

Segmentation is defined as the re-grouping of an image into their individual entities. By this process an object is differentiated from its surrounding in an image. Image segmentation is used when we want the process the only part of the image not the whole image. Image segmentation is very useful when we our region of interest is only in some region. Image segmentation has wide application in medical. An analyzer can perform the quantitative measurement of the geometrical changes of arteries-like length, width etc and provides the localization of region of interest. These regions contain the important information about the disease. This region works as the disease indicator. Therefore an automated segmentation reduces both the expenditure of resources and the examination time for project developer. This provides a precise measurement of retinal blood vessel and other regions of interest, which motivate to the analyzer for the development of Nobel segmentation method.

Keywords: Threshold Segmentation, Region Grown, Edge Detection, Texture-Based, MATLAB

AN ASSESSMENT OF CHALLENGES OF DIGITALIZATION OF AGRARIAN SECTOR

Nadya P. Reznik⁴⁶¹, Sandeep Kumar Gupta⁴⁶⁸, Petrushka Ihor M.⁴⁶⁹, Yemelyanov Olexandr Yu.⁴⁶⁶, Petrushka Kateryna I.⁴⁶⁵, Neha Nagar⁴⁶², Gurpreet Kaur⁴⁶⁷ and Rana Rani⁴⁶⁴

ABSTRACT

The article substantiates the digitization of the agrarian sector as a major trend that determines not only economic but also human development. Digitalization is defined as the process of transforming information into a digital form, and such a process which more or less touches absolutely all spheres of life making first of all qualitative changes and influencing human development itself. In Ukraine where the agrarian sector is the locomotive of economic development, its digitalization becomes the main task that needs practical application. Today significant achievements of Ukrainian agricultural companies in the direction of digitalization can be observed but a large number of problems still need to be addressed and remain challenges for the future. First of all the focus should be on combining the use of digital technologies with the appropriate training of workers of all levels capable of working in the new environment. Then it is possible to ensure both the fulfillment of economic goals and the achievement of human development goals. To do this Government supporting programs for the agrarian sector's digitalization at all levels are needed.

Keywords: Agrarian sector, challenges of digitalization, digitalization, human development

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ESTIMATION OF FINITE POPULATION MEAN IN SAMPLE SURVEYS: A NEW ESTIMATOR

Surya K. Pal⁴⁶⁵, Madan M. Gupta⁴⁶⁶, Housila P. Singh⁴⁶⁷ and Ramkrishna S. Solanki⁴⁶⁸

ABSTRACT

Utilizing additional information in simple random sampling, this research paper discussed a new method for estimating the finite population mean of a study variable. Up to the first order of approximation (fda), the properties of the recommended method have been investigated. The suggested estimator's advantages over traditional estimators are demonstrated using theoretical asymptotic techniques and an empirical analysis. The recommended estimator outperforms the customary unbiased, ratio, product, and regression estimators, as well as many other known population mean estimators.

Keywords: Additional information, Study variable, MSE, RRS

A SURVEY OF THE LITERATURE ON THE ROLE OF TECHNOLOGY IN BUSINESS SURVIVAL: POST COVID

Gagandeep Kaur⁴⁶⁹ and Leena Sharma⁴⁷⁰

ABSTRACT

The COVID-19 epidemic has been spreading over the planet since late 2019. The pandemic poses a serious threat to the health and safety of the general public, medical personnel, and medical systems around the world. During a pandemic, it has been recommended that robots be used to improve patient treatment and reduce the burden on the medical system. However, from a technological standpoint, there is still a need for a complete and systematic examination of robotic research for the pandemic. As a result, our study conducted a thorough literature review, reviewing over 280 papers with an emphasis on robots during the epidemic. The primary goal of this literature review is to answer two research questions: 1) what are the main research contributions to combating the pandemic from the perspective of robotic technologies, and 2) what are the main research contributions to combating the pandemic from the perspective of robotic technologies. The current state of robotic technologies is evaluated and debated in several categories, followed by the determination of the technology readiness level of the representative work. Artificial intelligence, 5G, big data, wireless sensor networks, and human-robot collaboration are among the future research topics and critical technologies emphasize.

Keywords: epidemic, pandemic, technologies

ELECTRONIC ABSORPTION SPECTRA AND SOLVENT EFFECT OF 2,5-DIMETHOXY THIO PHENOL

Dr Pradeep Kumar⁴⁷¹, Dr Ishwar Singh⁴⁷² and Dr Yogesh Kumar⁴⁷³

ABSTRACT

The electronic absorption spectra of 2,5-dimethoxy thio phenol has been recorded in the region 2000-3500Å. The electronic absorption spectra has been recorded in various solvents (viz. ethanol, methanol and water). The effect of substituents has been discussed. The effect of pH variation in ethanol solvent is also studied and discussed.

Keywords: electronic absorption spectra, Effect of pH, and solvent effect

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NUMERICAL STUDY OF DUAL-PHASE-LAG MICROSCALE HEAT TRANSPORT EQUATION OF FRACTIONAL ORDER USING MESH FREE METHOD

Vineet Srivastava⁴⁷⁷, Prabhat Kumar⁴⁷⁸ and Madan Mohan Dixit⁴⁷⁹

ABSTRACT

In this article, we have used Mesh Free Method to study the dual phase lag heat equation of fractional order, numerically. Fractional order is used to explore the wave nature of heat propagation as well as conduction at molecular level with dual phase lags. Numerical results are presented and compared graphically with the solution obtained by New Iterative Method. It is observed that the proposed equation affects the transfer of heat, significantly.

Keywords: DPL (Dual-Phase-Lag), MFM (Mesh Free method), NTM (New Iterative Method)

IMPACT OF COVID-19 ON THE INDIAN ECONOMY

Abhishek Mishra⁴⁸⁰ and Mekhala Gupta⁴⁸¹

ABSTRACT

The outburst of the covid-19 is a disaster for the Indian economy. The Indian economy was previously in a risky situation before the attack of covid-19. With the extended worldwide lockdown, economic recession, and related distraction of the supply chain, the economy may have to face a period of depression. The degree of economic effect will be measured by the extent and severity of the health crisis, the length of the lockdown, and the custom which the state of affairs reveals once the economy is elevated. This paper is an attempt to study the state of the Indian economy in the post-covid-19 period, evaluate the impact of this disaster on several sectors of the Indian economy, and suggest strategies of the central government and Reserve Bank of India to ease the problems, and to get the economy on the better path. Moreover, depending on the findings, some recommendations are suggested that can help overcome these adverse situations.

Keywords: Covid-19, India, Economy, Lockdown

MODELING AND SIMULATION OF WIND POWER ENERGY

Mala Yadav⁴⁸², Dhananjay Singh⁴⁸³, Ankit Kumar⁴⁸⁴ and Amit Kumar Mourya⁴⁸⁵

ABSTRACT

Concerns about the intrinsic uncertainties and unpredictability of wind power and other inconsistent renewable energy sources are frequently voiced when they begin to supply a major fraction of the electrical grid. Integration of wind power into the electrical grid involves various complications and incurs additional expenditures due to its variable and unpredictable character. The magnitudes of the issues are equivalent to wind penetration levels vary depending on the features of the power system, such as whether it is thermal or hydro dominated, system size, load characteristics, and transmission capacity. Integration studies are conducted on a regular basis to investigate the impact of greater wind penetration levels mostly on power system. For such research various model packages exist. In the presented work these have been assessed and discussed provides a thorough methodology for modeling realistic time series of electricity production and forecasts. The most discussed models are based on coarse weather datasets coupled with statistical post-processing.

Keywords: Wind Energy, MATLAB, Simulation

EDUCATION FOR ATTAINING SOCIAL SUSTAINABILITY: A STRIVE EQUIVALENT WITH AMELIORATION OF MORAL BEHAVIOR

Rachita Gupta⁴⁸⁶, Dr Priyanka Singh Niranjani⁴⁸⁷ and Dr Pratibha Kumari⁴⁸⁸

ABSTRACT

Amelioration of Moral Behavior was a primary focus of education for many decades. Still recently added concept is Education for Sustainable Development which targets achieving 17 SDGs as mentioned in UNESCO 2020 agenda. The concept of Social Sustainability has been put forth as an interpretation of five of these SDGs. As reviewed from the literature, the theoretical underpinnings suggest a parallelism between education suggested for Moral growth, and that suggested for achieving SDGs pertaining to Social Sustainability. The environment could be protected at any cost but are acts like slavery, killing, and abortions justifiable? Such a situation will result in establishing a society not worth living and making life undesirable. Morality, character, and virtuousness serve as building blocks for Sustainability to imbibe in Behavior and attitude. The study incorporates a systematic stepwise investigation of 1) Significance of Moral Behavior 2) Foundations of Social Sustainability 3) Education for development of Moral Behavior 4) Education for achieving Social Sustainability 5) Relation between Moral Behavior and Social Sustainability. The authors in this study have attempted to analyze the related literature and compile the findings to come up with implications for stakeholders of the education system viz Policymakers/ Management, Curriculum developers, and Teachers so that an educational setting conducive to both Sustainable and Moral Development can be ensured. To continue the chain of research in the perspective area, the authors have suggested a few research ideas.

Keywords: SDGs, Sustainable Development, Social Sustainability, Moral Behavior, ESD (Education for Sustainable Development)

SMART CITY APPLICATIONS BASED ON IOT- A REVIEW

Kamal Deep⁴⁸⁹, Sonia Rani⁴⁹⁰ and Yaspal Singh⁴⁹¹

ABSTRACT

Wireless sensor network and Smart monitoring have accelerated the global adoption of smart city applications, enhancing quality of life and lowering harmful environmental consequences. In recent few years, the Internet of Things (IoT) has attracted considerable attention in terms of smart cities, offering the technical basis requirement to execute real intelligent surveillance of the living environment. However, due to the wide range of IoT components and technologies employed in IoT networks for smart city. IoT frameworks for smart city may contain duplicated IoT components or use effective technologies. By using a systematic approach, this research aims to review and compare new IoT aspects and technologies used in framework for smart city. This report provides an overview and compare of developments in framework for smart city. Based on the findings of the systematic research, suggestions for future deployments of framework for smart city are presented. The findings of the comprehensive study and the guidelines for future IoT framework implementations reported in this paper are anticipated to serve as a guideline and a basis for IoT frameworks deployments inside the case of smart city applications.

Keywords: Internet of things, Smart cities, IoT framework, Smart city domain

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A STUDY ON THE OUTLOOK OF ENTREPRENEURS TOWARDS CHOOSING OWN START-UP AS A CAREER

Premta Popli⁴⁹², Tanisha Bindal⁴⁹³ and Dr Akanksha Upadhyaya⁴⁹⁴

ABSTRACT

An entrepreneur is someone who brings his ideas to life, bear all the risk and enjoy profit as a reward. So simply the process of setting-up your career in business is all about entrepreneurship. It's not about the ideas but making that ideas happen in reality. An entrepreneurs not only makes their future bright but also shapes a country's economy by generating wealth and giving employment opportunities to its citizens. The study throw a light on the individual's outlook towards choosing their career as a start-up and perceptive relationship that support entrepreneurial students to become future entrepreneurs. The purpose of this research is mainly on understanding the outlook of entrepreneurs towards choosing own start-up as a career. This research identify the most impacting factor affecting the outlook of entrepreneurs towards choosing own start up as their career using qualitative analysis. The current study is based on extensive literature review and analysis has been done NVIVO Word Cloud.

Keywords: Entrepreneur, Start-up, Word cloud, Perspective, Career, Economy, Employment

STOCK MARKET PRICE PREDICTION USING PRIVACY PRESERVATION TECHNIQUE

Deepak Singh⁴⁹⁵, Arun Kashyap⁴⁹⁶ and Amit Mourya⁴⁹⁷

ABSTRACT

Stock market forecasting is an important financial subject that has been attracted many researchers and suddenly last year researchers focuses on it. There is an assumption that the analysis of fundamental information publicly available from the past has some predictive relationships to future stock returns. Therefore we can predict the stock market variations such that which companies' share value in next time will go high or low. This technology is designed to help investors to discover hidden patterns from the historic data that have the probable predictive capability in their investment decisions. The prediction of stock markets is a challenging task for financial time series prediction. Data analysis is one way of predicting if future stock prices will increase or decrease. Five indications analyzing stocks were combined to predict if the day's closing price would increase or decrease. This paper discussed various data mining techniques that can predict with future closing stock prices will increase or decrease better than the level of significance. To predict stock market data we are using Association Rules, Neural Network. It supports numerically and graphically. We are using Matlab for implementation purposes.

Keywords: Stock Market Forecasting, Simple Moving average, Linear Regression Indicator(LRI), Rate of Change(ROC), Relative Strength Index(RSI), Neural Network

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AN INVESTIGATIONAL ANALYSIS ON SUSTAINABLE DEVELOPMENT DURING CRISIS: A REVIEW

Dr. Pushpanjali Singh¹¹¹, Ms. Niharika Singh¹¹²

ABSTRACT

As a result of increasing awareness among individuals, governments, institutions and nations, a new concept for development came up with the name of sustainable development that was initiated at the Stockholm Conference in 1972 in Sweden. Even as Brundtland's Report, about sustainable development published in 1987 by Oxford University Press, entitled *Our Common Future* clearly declared that protecting and improving the human environment constitutes a fundamental issue related to the welfare of human beings, where discussions transpire on the use of natural deposits available to every nation in order to achieve economic and social development without exhausting the natural deposits.

The COVID-19 pandemic and containment measures have raised new questions about the systemic pliability of complex global production methods and value chains, activation in renewed interest in more diversified and more localised production and shorter supply chains in particular division. A clear dedication to building back better, generating green jobs and promoting the transition to carbon neutral economies may strengthen the sustainable development. The main three indicators of sustainability namely - environmental, social and economic, if any one or more are outside the green circle, a sustainable development gap exists.

A Global Green New Deal (GGND) could be a motor for true green growth, improving per-head incomes and employment in countries around the world. The GGND supports simultaneous investment in two global goods, namely, social and economic development based on renewable energy, and climate stabilization. Altogether, the GGND is expected to set the future world economy on a more solid foundation for long-term sustainable development.

There are some missing pieces of information in the literature in regards to, how to intensify sustainable development during global crisis consequences. Therefore, this innovative paper, takes on an analysis to that extent which shows pandemic-19 as a whole distinctly has impacted the sustainability and also outlines the course of actions that may be executed in the future to get more favour of existing technologies that prop up the sustainable development process.

Keywords: Covid-19, Sustainable development, Building back better, Global Green New Deal, Sustainability Indicators, Green Circle.

SYNTHESIS AND SPECTRAL PROPERTIES OF 1, 3-BIS 4-METHYL (2-BENZIMIDAZYL) BENZENE, ITS N-METHYLATED DERIVATIVE

Dr. Ishwar Singh¹¹³, Dr. Pradeep Kumar¹¹⁴ and Dr. Yogesh Kumar¹¹⁵

ABSTRACT

The Electronic and IR studies on biologically active complexes of Co (II) have been reported. The bands observed and discussed assuming the molecule under CS point group symmetry. The IR spectral studies of this compound have been discussed. The electronic study in nujol phase has been calculated.

Keywords: Electronic Spectra and IR studies

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IMPACT OF MOTIVATION ON THE PRODUCTIVITY OF THE EMPLOYEES OF ONE OF THE BANKS OF BHOPAL

Dr. Ananta Geetey Uppal⁵⁴⁴, Ms. Mayuri Maheshvari⁵⁴⁵

ABSTRACT

Motivation plays a very significant role in the performance of employees working in any organization. Here significantly if we are talking about motivation, we simply mean the state of mind of a person and their needs. This study aims to know the impact of motivation on the productivity of the employees working in the organization. For this, we have done the research in one of the government banks of India. 21 respondents were selected from the bank among various branches in the Bhopal region. The study used the descriptive research design (mean, percentage, standard deviation) to conclude the research questions proposed for the study. To test the hypothesis of the study both qualitative as well as quantitative data have been taken into consideration. This study is also based on Maslow's need for motivation. For this, the survey has been done through a questionnaire which states the motivation at work scale and their productivity as it showcases the feeling of employees towards their work. Employees' motivation and performance have a considerable and favourable link, as per the findings of this study. In addition, intrinsic incentives are found to have a significant positive relationship with employee performance and motivation. As a response, the relation between the variables was investigated in this study, which included the relationship between motivation as the independent variable and productivity as the dependent variable. Motivation helps the employee to fulfill the job satisfaction that satisfies the career plans as well as personal values and this ultimately responds in the working capacity of an individual. Organisations must get to treat their employees well and utilise a variety of strategies to encourage them depending on their individual desires and requirements. We will want to emphasise the relevance of motivation in the workplace in order to boost employees' performance and productivity in this study. We would also want to discuss motivation theory and practices in the workplace.

Keywords: motivation, productivity, organization, employs performance, practices, job satisfaction

INTRUSION DETECTION SYSTEM USING MACHINE MODELS

Garima Singh⁵⁴⁶, Dhananjay Singh⁵⁴⁷

ABSTRACT

It is vital that credit card companies are able to identify fraudulent credit card transactions so that customers are not charged for items that they did not purchase. Such problems can be tackled with Data Science and its importance, along with Machine Learning, cannot be overstated. This project intends to illustrate the modeling of a data set using machine learning with Credit Card Fraud Detection. The Credit Card Fraud Detection Problem includes modeling past credit card transactions with the data of the ones that turned out to be fraud. This model is then used to recognize whether a new transaction is fraudulent or not. Our objective here is to detect 100% of the fraudulent transactions while minimizing the incorrect fraud classifications. Credit Card Fraud Detection is a typical sample of classification. In this process, we have focused on analysing and pre-processing data sets as well as the deployment of multiple anomaly detection algorithms such as Local Outlier Factor and Isolation Forest algorithm on the PCA transformed Credit Card Transaction data.

Keywords: Credit card fraud, applications of machine learning, data science, isolation forest algorithm, local outlier factor, automated fraud detection

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EXPLORING FACTORS INFLUENCING COLLABORATIVE LEARNING THROUGH MALL: A STUDY OF HIGHER EDUCATIONAL INSTITUTES

Ms. Divya Jyot Kaur⁵⁹⁸, Dr. Niraja Saraswat⁵⁹⁹

ABSTRACT

The constructivist theory claims that active learners must build up knowledge for themselves, because knowledge is not merely passed on from the teacher to the student, but instead it is established in students' minds through the exchange of meaningful artifacts; and it is an interactive process which takes place through collaborating with their peers. Therefore, collaborative learning emphasizes interactions among students. Collaborative learning using technology has gained increased attention over the past several years with its potential to bring learners together. Drawing on aspects of Unified Theory of Acceptance and Use of technology (UTAUT), this study employs a questionnaire to examine the relationship between different behavioral factors and collaborative learning through MALL (Mobile-Assisted Language Learning). To achieve this objective descriptive analysis, cronbach's alpha, pearson's correlation and linear multiple regressions were applied using SPSS ver.20 on six variables namely, performance expectancy (PE), effort expectancy (EE), facilitating conditions (FC), social influence (SI), hedonic motivation (HM), and perceived relevance (PR). A non-probability convenience sampling method was utilized for the accumulation of data from 200 respondents, which comprised undergraduate students from higher education institutes in Rajasthan. The structured online questionnaire comprised a 13-item scale. The results showed that PE, EE, and HM are strongly correlated with CL and contributed significantly towards the prediction of collaborative learning using MALL. The highest correlation was found between PE and CL. Given the scarcity of research in this area, this study aims to add to the existing corpus and concludes that students' inclination towards collaborative learning through MALL can be enhanced by adopting some effective practices and strategies.

Keywords: Collaborative learning, MALL, UTAUT, Higher education

A REVIEW ON PULSED ND: YAG LASER DRILLING OF BASALT FIBER REINFORCED COMPOSITE LAMINATES

Grish Dutt Gautam⁶⁰⁰, Kaushal Pratap Singh⁶⁰¹, Ankur Bahi⁶⁰²

ABSTRACT

In recent years, laser machining established itself a suitable process for making intrinsic and complex profiles in fiber reinforced composites. Now-a-days Basalt fibers are replacing glass and carbon fibers in various engineering sectors such as manufacturing, aviation, aerospace etc. Basalt fiber is a material made from extremely fine fibers of basalt, which is composed of the minerals plagioclase, pyroxene, and olivine. It is similar to fiberglass, having better physic-mechanical properties than fiberglass, but being significantly cheaper than carbon fiber. In the present article, recent advancement in Pulsed Nd:YAG laser drilling of Basalt fiber reinforced composite laminates are reviewed. Moreover, authors suggest the future direction for researchers in the same field.

Keywords: Nd: YAG Laser, Laser drilling, Basalt Fiber, Composites

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A REVIEW PAPER ON AUTOMATION OF TEXT SUMMARISATION TECHNIQUES

Kartik Rathi⁵⁶³, Saumy Raj⁵⁶⁴, Yash Vardan Singh⁵⁶⁵, Preeti Kaushik⁵⁶⁶

ABSTRACT

Text summarization comes under the domain of Natural Language Processing (NLP), which entails replacing a longer, precise, and concise text with a shorter, precise, and concise one. Manual text summarising takes a lot of time, effort, and money, and it's even unfeasible when there's a lot of text. Much research has been conducted since the 1950s, and researchers are still developing Automatic Text Summarization (ATS) systems. In the past few years, lots of text-summarization algorithms and approaches have been created. In most cases, summarisation algorithms simply turn the input text into a collection of vectors or tokens. The basic objective of this research is to review the different strategies used for text summarising. There are three types of ATS approaches, namely: Extractive text summarization approach, Abstractive text summarization approach, and Hybrid text summarization approach. The first method chooses the relevant statements out of the given input text or document & convolves those statements to create the final output as summary. The second method converts the input document into an intermedial representation before generating a summary containing phrases that differ from the originals. Both the extractive and abstractive processes are used in the hybrid method. Despite all of the methodologies presented, the produced summaries still lag behind human-authored summaries. By addressing the various components of ATS approaches, methodologies, techniques, datasets, assessment methods, and future research goals, this study provides a thorough review for researchers and novices in the field of NLP.

Keywords: Text summarisation, Abstractive, Extractive, LSA-Latent semantic analysis, Seq2Seq-Sequence2Sequence

PERFORMANCE AND MICROSTRUCTURE ANALYSIS OF COPPER AND BRASS ELECTRODE FOR AISI D204 DIE STEEL IN ELECTRODISCHARGE MACHINE

Girish Dutt Gautam⁵⁶⁷, Yashpal Singh⁵⁶⁸

ABSTRACT

Electrical discharge machining (EDM) has been recognized as an efficient production method for precision machining of electrically conducting hardened materials. In the present work authors make an experimental attempt to compare the performance of copper with brass as an EDM electrode materials for machining AISI D204 die steel using Castrol oil (SE180) as dielectric media. Keeping all other machining parameters same, the hardened work material was machined with the both electrodes at different values of discharge current, pulse on time & pulse off time. The performance analysis is carried out on the basis of various output responses such as material removal rate, Tool wear rate and Surface Roughness. It is concluded that copper electrode shows better results than brass electrode in same dielectric media in term of better accuracy and trueness of the machined profiles. At the same time, it is observed that tool wear rate of copper electrode is less while on the other hand for the brass electrode material removal rate is low and tool wear rate is high.

Keywords: Electro Discharge Machining, Material Removal Rate, Tool Wear Rate, Surface Roughness, Microscopic Profile

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2, 6-BIS (BENZIMIDAZOL-2-YL) PYRAZINE, ITS N-METHYLATED DERIVATIVE REACTIONS WITH SOME ACIDS AND COBALT (II) SALTS

Dr. Ishwar Singh⁵⁸⁵, Dr. Pradeep Kumar⁵⁸⁶

ABSTRACT

The NMR, IR and Electronic spectra studies on biologically active complexes of Co (II) have been reported. The bands observed and discussed assuming the molecule under CS point group symmetry. The electronic study in nujol phase has been calculated. The IR spectral studies of this compound have been discussed.

Keywords: NMR, IR and Electronic Spectra studies

ENTREPRENEURSHIP EDUCATION BUILDING JOB CREATORS

Vandana Srivastava⁵⁸⁷, Renu Sharma⁵⁸⁸

ABSTRACT

The progress of a nation is a function of the level of the resourcefulness of the people which to a great extent, relates to the level of quality of the training and purposeful development of education in that nation. Such progress or development could only occur when an individual in the society is gainfully employed and per capital income is enhanced. This could only be possible when government educational policies are geared towards a functional education that can lead to job creation and also self-reliance. Entrepreneurship education is a means through which government could attain such development in the society. Therefore, this paper examines how the role of entrepreneurship education and how it could help in job creation in India. The challenges of quality entrepreneurship education were also discussed. Finally, the paper advanced some suggestions on how to overcome the challenges so as to reduce unemployment and enhances job creation in India.

Keywords: Job Creator, Entrepreneurship, Entrepreneurs

CALCULATING RANK OF WEB DOCUMENTS USING ITS CONTENT AND LINK ANALYSIS

Amit Kumar⁵⁸⁹, Anshita Bhardwaj⁵⁹⁰, Anshika Jain⁵⁹¹, Mr. Jagbeer Singh⁵⁹²

ABSTRACT

On the World Wide Web (www), when a query is searched by the user over a search engine, ranking is the way through which the importances of web pages are measured by search engine. In today's scenario, all the vital information is available online in the form of text documents. Various search engines are available for mining this available information, according to the user query and give appropriate and most relevant results to the user in accordance to his/her query. Search engines retrieve and show the documents according to their ranking. Most of the search engines follow page ranking for assigning weightage to the web pages. In this paper, content-based matching is done along with the page ranking on hyperlink evaluation to display more accurate and relevant results in accordance to the user query.

Keywords: Hyperlink evaluation, Ranking, Search engine, Search query

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Data Transmission Security Through Cryptographic Protocols

Mr. Vipin Panwar¹, Mr. Amit Kumar Mourya², Mr. Krishna Kumar³

ABSTRACT:

Today's data communication depends primarily on digital data communication, where the primary requirement for data security is for the data to reach the intended user. Thus, many cryptographic techniques such as symmetric and asymmetric techniques are used to ensure data security. In this review article, various asymmetric cryptography techniques such as RSA (Rivest Shamir and Adleman), Diffie-Hellman, DSA (Digital Signature Algorithm), ECC (Elliptic Curve Cryptography) are analyzed.

Keywords- RSA (Rivest Shamir and Adleman), Diffie-Hellman, DSA (Digital Signature Algorithm), ECC (Elliptic curve cryptography)

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Recent development involved in Rapid Prototyping: A Systematic Review Approach

Shivani Sharma¹, Ghanshyam Yadav², Shweta Chauhan³

ABSTRACT:

Prototypes are models of the product that are tested in some way to validate the design decisions. Prototypes come in various forms and are used in different ways throughout the design process. This paper presents the recent steps involved in rapid prototyping along with principle of prototyping, types of prototyping, advantages, and disadvantages of prototyping. From this paper, we can conclude that rapid prototyping (RP) is a technology that produces prototypes directly from computer-aided design (CAD) models in a fraction of the time required to make them by machining or molding methods. Rapid Prototyping is an emerging technology in the field of advance manufacturing process/technique in which components/parts/models are rapidly created from the visual world (CAD model) to real world with minimum human interaction. Since the manufacturing starts with the creation of geometric data, either as a 3D solid using a CAD model, or 2D layers using a 3D scanning device therefore it is also referred as Layer Manufacturing, Material Deposition Manufacturing, Additive Manufacturing, Solid Freeform Manufacturing and Three-Dimensional Printing. This is one of the best techniques to manufacture prototypes which may be used for physical visualization, making some typical and intrinsic geometry. For the same requirement, in most of the cases it is very cost effective, flexible and time saving than any other available manufacturing technique. Therefore it is the most appropriate technique to manufacture or to recreate components/parts/model in different engineering viz. aerospace, product and tool development. A lot of new developments are occurring in the field of Rapid Prototyping Techniques in recent years.

This paper also provides the development, trends and applications of the Rapid Prototyping Techniques. The authors cover various available literatures to prepare concise and progressive review. There are various components which are associated with RP technique and some of them are listed in this paper.

Keywords: prototype, physical prototype, rapid prototyping, Classification of Rapid Prototyping, 3 Dimensional Printing, Poly-jet Printing, Rapid Prototyping; Sustainable Product Development.

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Digital Entrepreneurship: It's barriers and skills to overcome those barriers

Anshul¹, Meghali Das², Navyasri³

ABSTRACT:

In this 4th industrial revolution, there are many changes in existing and new jobs which in turns require advanced skilled manpower. The Fourth Industrial Revolution's innovations, from mobile technology for data collection and contact tracing to artificial intelligence for medical diagnostics, provide practical and efficient solutions to deal with the speed, extent, and impact of the COVID-19 pandemic. In terms of its psychological effects, the unprecedented global pandemic known as COVID-19 has been compared to the Spanish Flu of 1918, the Great Depression, and the Second World War. Measures requiring physical separation and quarantine were required to contain the COVID-19 epidemic. Diverse aspects of human behavior, such as shopping, learning, working, meeting, and entertainment, have moved from offline to online in an effort to fulfill this mandate while attempting to preserve the status quo. As a result, the diffusion of new digital technologies among the general public has accelerated, widening the gap between citizens who have access to these technologies and those who do not.

Many online learning platforms are providing free access to their services in response to overwhelming demand, including BYJU'S, the world's most valuable edtech company and a Bangalore-based educational technology and online tutoring organization formed in 2011. According to the firm's Chief Operating Officer, the number of new users of BYJU's Think and Learn app has increased by 200% since the company announced free live classes. But, this transition to online learning will have negative user experiences and prevent sustained growth because of the lack of planning, training, and preparation, others think a new hybrid system of education that will grow and provides many advantages. The use of information technology in education will continue to advance and that eventually, online learning will become a fundamental part of formal education if youth have proper training sessions. The youth in the rural areas are lacking in completing and accepting these challenges because the modern technologies are changing day-by-day. The nature of employment and skill requirements are evolving as a result of global megatrends like the growing importance of technology, climate change, demographic changes, urbanization, and the globalization of value chains. One requires a broad skill set to be successful in the work market of the twenty-first century. To keep up, first-generation entrepreneurs must obtain the necessary skills for improved livelihood and the UN's Sustainable Development Goals 2030. All the awareness and entrepreneurship skill development programs among the youths, especially for the rural areas must be evaluated and compared among various learners. This paper describes barriers and skills to overcome those barriers in digital entrepreneurship.

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Impact on employability in India

Pinky²

of an individual. Twenty first century is formation and communication technology. It has become the need of time to acquire get employment but also to sustain there. lack of awareness of skill development, poor skills required for employability. As India moves towards 'Knowledge Economy', it becomes increasingly important to focus on skill development, and these skills are conducive to the

constrictions to continued growth of the economy. We have defined a range of capabilities or competencies for your life through your education, training and activities. They are sometimes referred to as essential employment skills, key

competencies to improve skill development such as Entrepreneurship, Creation of separate entities, etc. This research paper focuses on skill development.

1, employability, challenges

UV Absorption Spectra And Effect of PH Of 2,5- Dimethoxy Thio Phenol

Thio Phenol

Dr. Pradeep Kumar¹, Dr. Ishwar Singh²

ABSTRACT:

The ultraviolet absorption spectra of 2,5-dimethoxy thio phenol has been recorded in the region 2000-3500Å. The ultraviolet absorption spectra has been recorded in various solvents (viz. ethanol, methanol and water). The effect of substituents has been discussed. The effect of pH variation in ethanol solvent is also studied and discussed.

Keywords- Ultraviolet absorption spectra, pH effect and solvent effect.

Mathematical Analysis Of Reliability Analysis

Prabhat Kumar¹

ABSTRACT:

Several researches have contributed a lot in reliability field while analysing various complex systems mathematically, incorporating the concept of common-cause failure which may occur due to equipment design deficiency, operation and maintenance error, external environment, external catastrophe and junction deficiency etc. The author has developed a model consisting of two units in parallel redundancy which has been studied to evaluate availability and cost function under logical failure and critical human error. It has been assumed that the system remains in five states during the operational stage. Initially both the units are good, while in the state two, only one unit is good. On the other hand, states three, four and five are failed states. Logical and critical human error occur in states one and two, which cause the system to go in state three and four which are termed as failed states. Laplace-transforms of various state probabilities have been obtained which further yield time dependent probabilities by inversion process. With the help of Abel's Lemma, the long run operation of the system has also been studied. Various graphs have also been plotted to highlight the utility of the model.

Is the Hybrid Workplace this the work future of?

A crossover approach plans to give an ideal offset of useful work with diminished pressure and less driving. Yet, will it work? Furthermore is this actually the eventual fate of work? The pandemic was in a vastly different spot. An antibody was not too far off, the economy was bouncing back, and numerous working environments were starting to welcome back representatives back into the work environment. The cross breed working environment is characterized as a plan of action joining remote work with office work. It might appear to be unique among associations, however it regularly incorporates the on location presence of a centre gathering, while others are allowed to go back and forth however they see fit, reason. It very well might be similar representatives commanded to be nearby, or it could incorporate a faltering of various individuals present on various days or times. Or then again, there may basically be explicit days where representatives are mentioned to go to face to face gatherings. The crossover working environment by and large permits representatives the chance to fit work around their lives, rather than organizing work around fixed hours signed into an office. For some representatives (and bosses) it's an ideal offset of useful work with decreased pressure and less driving. Back in 2020, managers ended up at an intersection, attempting to guarantee representatives had every one of the assets they expected to keep up with their usefulness (and mental soundness), while as yet hitting hierarchical objectives. This prepared for the half and half working environment.

Role Of Technology For Success of Entrepreneurs

Meghali Das¹, Dr. Garima Srivastava², M. Navyasr³

ABSTRACT:

Entrepreneurship is a process that entails a number of steps that must be completed in order to build a business. An entrepreneur is a business owner or manager who generates money via risk and innovation. In this digital age, innovation is a terrific method to succeed. In business, the route of innovation involves doing something new, wiser, or better that will result in a positive difference in terms of value, quality, or productivity by utilizing emerging or proven technology from across the world. The technology that has already proven its worth over the previous two decades is, of course, information technology. It has significantly altered the lives of individuals and organizations.

Firms in various industries have gained success through competing via technology and innovation in recent years, which has been an essential source of competitive power. Taking the perspective of a small firm with specialised technical skills, this study looked at the impact of innovation in competitiveness. Economic and social stability and prosperity are now driven by technological advancement and entrepreneurship. There is a need to examine the most essential components that comprise information technology entrepreneurial ecosystems, how entrepreneurs interact with them, and particularly entrepreneurial strategic methods.

According to recent developments, the new firms that will emerge at the end of the year and the beginning of the following year will be full stack startups. Young and aspiring Indian brains will be focused on these themes in order to construct start-ups capable of developing a full and end-to-end product or service that will revolutionise the startup environment in the nation. The slogan for startup success in 2016 is "the trick is not to fail fast, the goal is to succeed in the long term."

The activities an entrepreneur engages in to launch a business are referred to as entrepreneurial activities. Entrepreneurship is regarded as one of the key drivers of economic and societal growth. They are the nation's change agents and knowledge resources, and it is to them that the burden of radical change and organised growth falls. Technology is necessary for entrepreneurs to handle these duties. Technology may help the growth of entrepreneurship as a technique, tool, process, or alteration. Every stage of the entrepreneurial process, including idea generation, concept selection, resource assembling, manufacturing and service delivery, marketing, customer satisfaction, and any other activity linked to the growth of a firm, requires the usage of technology. Examining numerous study-related topics is necessary in order to comprehend how technology supports entrepreneurship.

Economic growth and successful new ventures are the outcomes of a coordinated effort between the correct environment, strategy, effort, and invention. Only business owners can successfully combine these factors in the right way. They offer a clear road map for fostering research, technology, and financing to support mature businesses. They support economic growth while also expanding the eco-system. Labor, technology, natural resources, capital, and entrepreneurship are the variables that influence economic development. The entrepreneur is the most important element in this development process. The entrepreneur is in charge of this, and their policies and tactics involve a wide range of topics such production marketing, financing, pricing, and interpersonal relationships. The development of

FLC based speed control of Induction Motor

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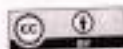
Abstract: Speed control of induction motor is utilized for blowers, fans and many other applications. AC voltage regulators are used in induction motors to arrange the speed. This technique features the shrewd controllers such as the Fuzzy controller ac voltage controllers to produce the firing signals for thyristors concerning a given operating torque, speed of the motor, and the load. Fuzzy models have been intended to accomplish the proposed calculation. MATLAB/SIMULINK is utilized to reproduce the proposed strategies. The upside of such controller is its straightforwardness, security, and high precision contrasted with the regular numerical figuring of the firing signals which is a complex and tedious errand particularly in online control applications. The significant attribute of the FLC system is to improve robustness. The mathematical model of the drive framework is created utilizing the phase variable model. The created model is simulated using MATLAB/SIMULINK, since it provides a convenient tool to analyze the system precisely so the outcomes obtained are very satisfactory and promising.

Keywords: Control System, PID controller, Fuzzy logic control, Framework Modeling, Induction Motor (3-phase), MATLAB / SIMULINK

1. INTRODUCTION

Three phase Induction motor has wide application and demand in today's life as in residential, commercial and industrial application. It is utilized in lifts, cranes, hoists, large capacity exhaust fans, lathe machines, crushers, oil extracting mills and textile industry etc.[1,2] So the performance of three phase induction motor is quite remarkable which can be affected by the large rotor current. If it cannot be controlled or monitored, it would affect extremely in the area of high power demand.

AC regulator which is the combination of thyristors, TRIAC, SCRs can be used to overcome such situations. The ac voltage regulator changes the fixed voltage and fixed frequency of the input to a variable voltage. Ac voltage-controller-based starters have some merits over conventional starters as: smooth acceleration, which reduces the stress on the mechanical drive system [3]. An adaptive approach using Adaptive Pole Placement Control was applied for controlling speed of three-phase induction motor [4], which shows better performance than PID controller. Slip and speed control via



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LEARNING HOW TO LEARN: META LEARNING APPROACH TO IMPROVE DEEP LEARNING

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ABSTRACT

Meta-Learning describes the abstraction to designing more elevated level components associated with preparing Deep Neural Networks. The expression "Meta-Learning" is tossed around in Deep Learning writing often referencing "AutoML", "Few-Shot Learning", or "Neural Architecture Search" when in reference to the robotized design of neural system architectures. Rising up out of entertainingly titled papers such as "Figuring out how to learn by inclination descent by slope descent", the success of OpenAI's rubik's solid shape mechanical hand demonstrates the development of the thought. Meta-Learning is the most promising worldview to propel the state-of-the-craft of Deep Learning and Artificial Intelligence. Meta-learning is one of the most dynamic regions of research in the profound learning space. A few ways of thinking inside the Artificial Intelligence (AI) people group buy in to the postulation that meta-learning is one of the venturing stones towards opening Artificial General Intelligence(AGI). As of late, we have seen a blast in innovative work of meta-learning systems. In any case, a portion of the essential thoughts behind meta-learning are still generally misconstrued by information researchers and designers. From that point of view, we figured it may be a smart thought to audit a portion of the crucial ideas and history of meta-learning just as a portion of the mainstream calculations in the space.

ID-016

A REVIEW ON PDIS (PLANT DISEASE IDENTIFICATION SYSTEM)

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ABSTRACT

Plant diseases are one of the most important factors which can harm agricultural crops. Advances in image processing and other information technologies are serving as promising solutions for real-time crop disease detection and recognition. Researchers from all around the world have put forward their ideas for developing such systems but success still seems too far away because proposed and developed systems have few limitations. This review will provide aid to researchers for understanding image processing applications in plant disease detection and recognition as it summarizes various plant diseases, disease detection systems, their challenges and their working.

Keywords: Plant Diseases, Image Classification, Image Segmentation

ID-017

BIG DATA ANALYTICS: A LITERATURE REVIEW PAPER

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ABSTRACT

In this modern era of computer's, a large amount of data is available to decision makers. Big data doesn't only refer to datasets that are big, but also high in velocity and variety, which is hard to handle using traditional tools and techniques. Due to speedy growth of such data, some ways are necessary to found to get important knowledge and values from these data sets. Also, decision makers need to gain some valuable vision from such big and continuously changing data, ranging from daily transactions to customer interactions and data of social network. Such vision can be given using Big Data Analytics, which is the application of Advanced Analytics Technique on big data. This paper aims to study some of the dis-similar analytics methods and tools which can be applied to big data, as well as the charge provided by the applications of big data analytics in different decision domain.

EFFICIENT CROP YIELD PREDICTION IN INDIA USING MACHINE LEARNING TECHNIQUES-A SURVEY

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ABSTRACT

Today Agriculture Sector is a major contributor to Indian Economy. In a country like India, which has ever increasing demand of food due to rising population, advances in agriculture sector are required to meet the needs. Therefore Crop Yield Prediction remains a challenging task in this domain. There are various parameters that affect the yield of crop like rainfall, temperature, fertilizers, pesticides, ph level, and other atmospheric conditions and parameters. Accurate yield prediction is required to be done after understanding the functional relationship between yield and these parameters. For this many researchers have applied machine learning algorithms on comprehensive datasets for predicting crop yield. This paper discusses various machine learning approaches towards crop yield prediction in India.

RECENT CHALLENGES AND ADVANCES IN AD-HOC AND SENSOR NETWORKS

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ABSTRACT

Sensor networks (SNs) have become one of the most interesting areas of research in the past few years. A Sensor Network is composed of a number of wireless sensor nodes which form a sensor field and a sink. These large numbers of nodes, having the abilities to sense their surroundings, perform limited computation and communicate wirelessly form the SNs. Recent advances in wireless and electronic technologies have enabled a wide range of applications of SNs in military, traffic surveillance, target tracking, environment monitoring, healthcare monitoring, and so on. Ad-hoc network is a self-configuring infrastructure less network of mobile devices connected by wireless. Each device in an ad-hoc network is free to move independently in any direction, and will therefore change its links to other devices frequently. SNs are a smaller, emerging field of research in contrast to their well-established predecessor. SNs are much more versatile than static sensor networks as they can be deployed in any scenario and cope with rapid topology changes. There are many new challenges that have surfaced for the designers of SNs, in order to meet the requirements of various applications like sensed quantities, size of nodes, and nodes autonomy. Therefore, improvements in the current technologies and better solutions to these challenges are required. The future developments in sensor nodes must produce very powerful and cost-effective devices, so that they may be used in applications like underwater acoustic sensor systems, sensing based cyber-physical systems, time-critical applications, cognitive sensing and spectrum management, and security and privacy management. This paper also describes the research challenges for Ad-hoc and Sensor Networks.

Keywords: Sensor Networks, Ad -Hoc Networks, Recent Advances, Research Challenges, Cyber-Physical Systems.

ADVANCES AND CHALLENGES IN AD-HOC AND SENSOR NETWORKS

Bhavesh Mathur¹, Abhay N Tripathi², Himanshu Rastogi³

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ABSTRACT

Sensor networks (SNs) have become one of the most interesting areas of research in the past few years. A Sensor Network is composed of a number of wireless sensor nodes which form a sensor field and a sink. These large numbers of nodes, having the abilities to sense their surroundings, perform limited computation and communicate wirelessly from the SNs. Recent advances in wireless and electronic technologies have enabled a wide range of applications of SNs in military, traffic surveillance, target tracking, environment monitoring, healthcare monitoring, and so on.. Ad-hoc network is a self-configuring infrastructureless network of mobile devices connected by wireless. Each device in an ad-hoc network is free to move independently in any direction, and will therefore change its links to other devices frequently. SNs are a smaller, emerging field of research in contrast to their well-established predecessor. SNs are much more versatile than static sensor networks as they can be deployed in any scenario and cope with rapid topology changes. There are many new challenges that have surfaced for the designers of SNs, in order to meet the requirements of various applications like sensed quantities, size of nodes, and nodes autonomy. Therefore, improvements in the current technologies and better solutions to these challenges are required. The future developments in sensor nodes must produce very powerful and cost-effective devices, so that they may be used in applications like underwater acoustic sensor systems, sensing based cyber-physical systems, time-critical applications, cognitive sensing and spectrum management, and security and privacy management. This paper also describes the research challenges for Ad-hoc and Sensor Networks.

Keywords: Sensor Networks, Ad -Hoc Networks, Recent Advances, Research Challenges, Cyber-Physical Systems.

ID-023

REVIEW PAPER ON FACE DETECTION TECHNIQUES

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ABSTRACT

In this paper we compare different approaches used for face detection. We provide various advantages and disadvantages for each approach on the basis of detection rates, simplicity and versatility.

Keywords: Face Detection, Template Matching, Multilayer Perceptron.

ID-025

REDUCTION OF PLASTIC USAGE IN INDIA: ANALYSIS OF ALTERNATE SOLUTION

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ABSTRACT

Plastic is one of the most commonly used materials worldwide. Humans are still in quandary over the use of plastic. As awareness of the harm of plastic usage increases in India, Government and companies are searching for cost effective ways to reduce the use of plastic. To reduce plastic usage is challenging in households and many industries, especially in food and packaging industries. In this paper, we have discussed the alternate solutions to replace plastic products in households and in food and packaging industries. Though these products are more expensive than the plastic products, but "Saving Planet" is more important than "Saving Money". We have also discussed the role of biodegradable plastic and why it's not a feasible solution. Furthermore, we have reviewed many plastic replacement products like Bamboo Toothbrushes, clay bottles, edible cutlery etc.

Keywords: Biodegradable Plastic; Biotransformation; Four-Rs

ID-026

A REVIEW PAPER: ROBOTS MUST FOLLOW ETHICS

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ABSTRACT

Ethics is the branch of philosophy which deals with human conduct, moral assessments, and wrong behavior. The same concept is proposed for robots also. The word robo-ethics brings up a fundamental ethical reflection that is related to particular issues and moral concerns generated by the development of robotic applications. Robot ethics, sometimes known by short expression "roboethics", concerns ethical problems that occur with robots. Roboethics also known as machine ethics deals with the code of conduct that robotic designers implement in the Artificial Intelligence of a robot. Through this kind of artificial ethics roboticists must guarantee that autonomous systems are going to be able to exhibit ethically acceptable behavior in situations where robots or any other autonomous systems such as autonomous vehicles interact with humans. In this review paper, we have also discussed the laws of Robotics.

Keywords: Robo-Ethics, Laws Of Robotics

ID-029

SMART HOME NETWORK AND ITS THREAT –DDOS STUDY

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ABSTRACT

A Distributed Denial of Service (DDoS) attack is an attack which compromised the bandwidth of the whole network by choking down all the available network resources which are publically available, thus makes the access of that resource unavailable. DDos attack is more vulnerable than a normal Dos attack because here the sources of attack origin is more than one .So users can't even estimate how to detect and where to take actions so that attacks can be dissolved. This Paper suggests that the remedy that must be taken in order to counter-effect the DDos attack in a smart home network.

Keywords: Smart Home; Ddos; Defence Mechanism; Attacks; Layered Architecture

ID-030

**EFFECT OF PH AND ULTRAVOILET SPECTRAL STUDIES OF 2,
DIMETHOXY THIO PHENOL**

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ABSTRACT

The ultraviolet spectra of 2,5-dimethoxy thio phenol has been recorded in the region 3500Å. The electronic absorption spectra has been recorded in various solvents (viz. ethanol, methanol and water). The effect of substituents has been discussed. The effect of pH variation in ethanol solvent is also studied and discussed.

Keywords: Electronic Absorption Spectra, Ph Effect and Solvent Effect.

ID-031

**VARIATION OF TOP QUARK MASS (m_t) WITH QUANTUM
CHROMODYNAMICS (QCD) SCALE PARAMETER Λ AND DOWN
QUARK (m_d)**

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ABSTRACT

Variation of top quark mass m_t with QCD scale parameter $\Lambda = 0.1$ GeV, $\Lambda=0.15$ GeV and $\Lambda=0.3$ GeV with down quark m_d (0.3285, 0.3286....0.3305) GeV, Variation of m_t and m_d was reported. The top quark is a member of the third generation quark doublet in standard model of particle physics. Although the standard model has shown incredible successes with regard to experiments, the top quark remained elusive for quite a long time and these were several predictions on top quark mass around 120 GeV or above. The central value extracted from precision electroweak measurement at LEP suggest that the top quark mass can be taken to be about 174 GeV. The purpose of the present work is to estimate discuss the top quark mass in QCD motivated potential model using the empirical result $M_V^2 - M_P^2$ is a constant (≈ 0.56 GeV²) for non-self conjugate mesons containing one light and one heavy quark.

Keywords: Mass, Qcd Scale Parameters.

ID-032

**ULTRAVIOLET AND VIBRATIONAL SPECTRAL STUDIES ON
BIOLOGICALLY ACTIVE COMPLEXES OF COBALT -II WITH
BENZIMIDAZOLE COMPOUND**

**Dr. Ishwar Singh¹, Dr. Pradeep Kumar², Dr. Jyotsna Pandit³, Dr. Manish kumar
Ambedkar⁴**

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ABSTRACT

We have study the vibrational and ultraviolet spectra in this paper. Widely studies of carbonic anhydrases (1) and alkaline phosphatases (2) indicate the presence of a catalytic site bound to three imidazole residues of enzyme histidines. In the carboxy peptidases (3) and thermolysin (4), the critical Co^{2+} is bound to two imidazoles and a carboxylate group of the enzyme. In spite of the obvious interest such systems would have few chelating ligands. Imidazole rings have been made so far, and none which combine three simple imidazole rings. Models for the metal binding sites of carbonic anhydrase.

Keywords: Ultraviolet, Vibrational Spectra, Biological Study

ID-034

ENHANCING THE PERFORMANCE OF FACE DETECTION AND RECOGNITION

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ABSTRACT

Human Face is complicated multidimensional visual model which is very crucial for identity. Facial Recognition is one of the most challenging issues of biometric technology. It is difficult and essential to recognize the face. In this paper, we will discuss various methodologies which are used from earlier to recognize the face from the images captured by cameras. Here we will represent past and present covering algorithms for the same. We will discuss convolution neural network (CNN, or ConvNet) in deep learning and Artificial Neural Network (ANN). This paper discusses various Artificial Neural Network (ANN) approaches for Face Detection and Recognition.

Keywords: Face Detection and Recognition Algorithms, Convolution Neural Network, Deep Learning, Artificial Neural Network (ANN)

ID-039

UNIVERSAL LOGIC GATES USING NANO-ELECTRO-MECHANICAL SWITCHES

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ABSTRACT

Nano-Electro-Mechanical Switches (NEMS) offer almost zero leakage in the off-state due to the absence of a pn junction and a gate oxide, as well as remarkable drive current in the on-state due to a metallic channel. Laterally actuated NEMS switches have little compensation more than the existing structures such as ability to co-fabricate the actuator, resistant to impact bouncing and free vibrations. This paper presents a novel design of NEMS logic gates using laterally-actuated double-electrode NEMS structures that can implement logic functions similar as logic devices that are made of solid-state transistors. The proposed logic gates uses only two NEMS switches instead of using 6-14 individual transistors as in CMOS. Then decreasing the transistor counts, our approach gives better yield, reproducibility, speed and reduce the complexities of making digital circuits such as adders and multipliers. One exclusive feature of this device is that it can work as either NAND gate or NOR gate functions with the same mechanical structure depending on the bias conditions of electrical interconnects.

Keywords: Laterally-Actuated NEMS, NEMS Switch, Logic Design, Logic Gates.

POWER OPTIMIZATION IN MICROPROCESSORS BASED ON PARALLEL DATA TRANSFER SCHEMES

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ABSTRACT

Managing power is a very broad topic, and spans software and hardware. It is important to understand the role of power management in a successful microprocessor, microcontroller, IoT deployment, and how to manage power efficiently for remote devices and long-life devices. Our main concentration here is on microprocessor power management according to power flow. A microprocessor is an electronic chip which has computing and decision making capability. It is a central processing unit on a single integrated circuit chip containing millions of very small components including transistors, resistors, and diodes that work together. It is important to take into account how the millions of very small components will behave and how this behavior affects energy consumption. So, early optimization of low power is very essential and important. In this paper we optimize power saving approach on the basis of data transfer schemes. The power optimization approach is based on the various parallel data transfer schemes. The Result of power optimization method shows that the approach is effective for microprocessor and microcontroller.

Keywords: Data Transfer Schemes, IoT, Low Power, Microprocessor, Microcontroller, Power, Data Transfer.

ID-041

DESIGN AND DEVELOPMENT OF SECURE CLOUD ARCHITECTURE FOR E-COMMERCE

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ABSTRACT

Use of E-trade has emerged from last a long time and it isn't always limited to buying and promoting items on-line. Now many groups are supplying software's, systems and infrastructure as their offerings beneath e-trade. Cloud computing in conjunction with e-trade is offering Pay-Per-Use-On-Demand mode this is without problems accessed and shared by way of IT resources with the assist of net. In this paper, we've discussed the software structure based on Cloud Computing. Different offerings which are offered via Cloud Computing may be categorized into 3 elements: Software-as-a-Service (SaaS), Platform-as-a-Service (PaaS) and Infrastructure-as-a-Service (IaaS). We have additionally described infrastructure and framework of E-Commerce Cloud. Furthermore, the development in reliability and safety of Supply Chain Management, because of Cloud Computing, has been mentioned. At the quit of the paper, we've mentioned safety issues of e-commerce system. Security of statistics and computer influences e-commerce cloud and its overall performance.

Keywords: E-Commerce Cloud, Software-as-a-Service (SaaS), Platform-as-a-Service (PaaS), Infrastructure-as-a-Service (IaaS), Cloud Security.

ID-042

AN INTRODUCTION OF IMAGE PROCESSING WITH MATLAB TOOL

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ABSTRACT

There are several tools available for analyzing the images and processing it. But MATLAB is a good interactive tool that provides the good operational tool and enhancing tool for these. MATLAB is a good interactive tool in image processing and it has a wide area of application specification. MATLAB provide a platform in which we can easily implement the algorithm will perform the desired operation. MATLAB has several tools that are used to enhance image according to our desired. MATLAB is used in two types of application. First one enhance the visual information like sharpness, contrast, brightness enhancement to make image better perspective vision. In Second one we improve the image in such a way suitable for the machine application. In this paper, we describe the important features of MATLAB TOOL and its application image processing.

Keywords: MATLAB TOOL, image processing, Pre-processing, segmentation, restoration, Recognition and interpretation

ID-043

GLAUCOMA DETECTION USING THE FUNDUS RETINAL IMAGE

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ABSTRACT

Glaucoma is the medical condition which can result in blindness and vision loss. In Glaucoma, optic nerve which connects the eye to brain, is damaged which leads to progressive, irreversible vision loss. This disease does not cause any symptoms in early stages. Due to this people don't realize about the Glaucoma. Glaucoma is a common cause of eye blindness in India and abroad. Majority of people still don't know that they have Glaucoma. It can be detected in early stages through only routine checkup. So we need a simple and effective automated method to detect the Glaucoma at the starting stages. We proposed an effective and precise method for mass screening of people to detect the Glaucoma in early stages. In this approach we segmented the optic disk and the optic curve from the color retinal images of eye using image processing. By analyzing the segmented disk and cup, we have calculated the cup to disk ratio. The result of the proposed method has good accuracy with high sensitivity.

Keywords: Color Retinal Images, Segmentation, Neuroretinal Rim, Optic Disk, Optic Cup, Blood Vessels, Hough Transform

ID-047

BANDWIDTH IMPROVEMENT OF TRUNCATED SQUARE SHAPED PATCH ANTENNA

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ABSTRACT

The conventional Rectangular Microstrip patch antenna has very narrow impedance bandwidth typically of few percent. While Microstrip patch antenna have the advantage of low profile, light weight, ease of fabrication, conformable to mounting surface and better performance in active devices. This paper introduces geometry of corner truncated square shaped (Microstrip Patch Antenna) results in increase in Bandwidth from 3.117% to 5.117%. The geometry of slotted and corner truncated square shape MPA is designed on a FR4 substrate with a dielectric constant and tangent loss of 4.4 and 0.035 respectively.

Keywords: Bandwidth, Rectangular microstrip patch antenna, Slotted Rectangular microstrip patch antenna, Return Loss, Coaxial probe feed, 2D Radiation pattern.

ID-048

PERFORMANCE OF DIGITAL MODULATION TECHNIQUES ON BASIS OF BIT ERROR RATE AND SIGNAL TO NOISE RATIO

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ABSTRACT

The transmission from base station to mobile or downlink transmission using M-ary Quadrature Amplitude modulation (QAM) and Quadrature phase shift keying (QPSK) modulation scheme are consider in W-CDMA system. We can analysis the performance of these modulation techniques when the system is subjected to AWGN and multipath Rayleigh fading are consider in the channel. We will use MatLab 7.4 for simulation and evaluation of BER and SNR for W-CDMA system models. We will go for analysis of Quadrature phase shift key and 16-ary Quadrature Amplitude modulations which are being used in wideband code division multiple access system, so that the system can go for more suitable modulation technique to suit the channel quality, thus we can deliver the optimum and efficient data rate to mobile terminal. The performances of these modulation techniques are evaluated when the system is subjected to a number of users as well as noise and interference in the channel. Additive White Noise Gaussian (AWGN), multipath Rayleigh fading and Rician fading are considered in the channel. By implementing the different modulation techniques, the criterion is comparison of the variation of BER for different SNR. It is observed that the BER is minimum for AWGN. And to identify which modulation scheme gives best BER performance.

Keywords: AWGN, DSSS, Multipath Rayleigh fading, CDMA, BER, SNR, QPSK, 16-QAM

ID-049

DESIGN OF RECTANGULAR PATCH ANTENNA USING ISM BAND

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ABSTRACT

In this paper an inset fed rectangular shaped microstrip patch antenna is designed. The antenna structure is further simulated using Agilent ADS(Advance Design System) software. The patch is designed with RT Duroid 5880 substrate of having dielectric constant 2.2 and thickness of 1.6 mm. The simulation result proves the theoretical aspects for ISM

Keywords: RT Duroid 5880; inset fed; microstrip patch

OPTIMIZATION OF PROCESS PARAMETERS FOR AXIAL FLOW FORMING OF OFE COPPER AND CHARACTERIZATION OF PRODUCT

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ABSTRACT

Flow forming is an advanced eco-friendly chip less metal forming process, which employs an incremental rotary point deformation technique. Flow forming offers a remarkable increase in tensile properties due to strain hardening and provides excellent dimensional accuracy and surface finish for the flow formed part. Flow forming is an advanced, often net shape, hot and cold working process for manufacturing seamless, dimensionally precise tubular and other rotationally symmetrical products. With the introduction of heavy-duty CNC flow forming machines hard to work materials can be formed easily, thus enabling customers to optimize designs and reduce weight and cost, all of which are vital. The parameters affecting the flow forming process are feed, speed of the mandrel, depth of cut, roller diameter. Out of these parameters feed and speed of mandrel are predominant in affecting the flow forming process. The main objective of this research is to perform experimental work for various process parameters like mandrel speed, roller feed, depth of cut etc. and study its affect on the dimensional accuracy of flow formed component. In connection to these parameters, to characterize for the metallurgical and mechanical properties of the perform material and flow formed tubes like hardness, microstructure, grain size, tensile strength. In this research, the optimized parameters for the flow forming of oxygen free electrolytic copper (OFE-Cu) has been established.

KEYWORDS: Flow forming, OFE-Cu, CNC, Speed, Feed, Depth of cut, Microstructures, G size.

ID-051

COMPUTER AIDED DRUG DESIGNING OF 1, 3, 4-THIADIAZOLE AND 1,2,4-TRIAZOLE DERIVATIVES AS CA (II) CARBONIC ANHYDRASE INHIBITORS

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ABSTRACT

The IC_{50} is a drug concentration dose which concerns with inhibitory concentration that required to inhibit the 50% growth of a test population of animal. The half maximal inhibitory concentration (IC_{50}) is a measure of the potency of a substance in inhibiting a specific biological or biochemical function. IC_{50} is a quantitative measure that indicates how much of a particular inhibitory substance (e.g. drug) is needed to inhibit, in vitro, a given biological process or biological component by 50%. Quantitative structure-activity relationship (QSAR) model for IC_{50} for 22 compounds of 1,3,4-Thiadiazole and 1,2,4-triazole derivatives as carbonic anhydrase inhibitors is analysed using multiple linear regression analysis (MLRA) followed by statistical evaluation by NCSS software (IBM). In order to indicate the influence of different molecular descriptors on $\log IC_{50}$ values and well understand the important structural factors affecting experimental values, a set of physicochemical and topological parameters were taken into consideration. Four multivariable linear models derived from four groups of different molecular descriptors were built. Moreover, each molecular descriptor in these models was discussed well understand the relationship between molecular structures and their $\log IC_{50}$ value. The square of correlation coefficient (R^2) for the best model with four molecular descriptors is 0.604. The residual value of the two compounds is much higher than other compounds is taken

outlier. After deleting these compound no 10 and 22 the value of R^2 is much improved, it comes out to be 0.751 .

Keywords: Quantitative structure–activity relationship (QSAR) model for log IC_{50} , 1,3,4-Thiadiazole and 1,2,4-triazole derivatives

ID-052

A REVIEW ON EMERGING ERA OF SCIENCE AND TECHNOLOGY

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ABSTRACT

In general, nanotechnology relates the creation of functional materials, devices & systems through control of matter with length scale 1-100 nm. It also exploits the novel phenomena and properties such as electrical, electronics, physical, chemical, biological, mechanical etc. A great scientific and technical revolution has been seen for the development of nano devices for the amazing applications to enable new science and exploration missions. With this mission, IACQER has taken a leading role to establish advanced research laboratories in the country to unite the institutes and industries to serve better society by the development and sustain of R&D in new era of nanotechnology. In present paper, the ongoing research works at various laboratories of IACQER has been discussed and summarized.

Keywords: Photonics, Waveguides, Reflectors, Carbon nanotubes, Biosensors, Solar cells.

SECUREMENT OF MULTISIGNATURE GENERATION USING SIGNATURE SCHEME

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ABSTRACT

Multisignature threshold schemes combine the properties of threshold group-oriented signature schemes and Multisignature schemes to yield a signature scheme that allows more members to collaboratively sign an arbitrary message. In contrast to threshold group signature the individual signers do not remain anonymous, but are publicly identifiable from information contained in the valid Multisignature. The main objective of our project is to propose such a secure and efficient Multisignature scheme. Our project shows that the proposed scheme eliminates the latest attacks to which other similar schemes are subject. Multisignature based on distributed-key management infrastructure (DKMI), which consists of distributed-key generation (DKG) protocol and distributed-key redistribution/updates (DKRU) protocol. The round optimal DKRU protocol solves a major problem with existing secret redistribution/updates schemes by giving group members a mechanism to identify malicious or share-holders in the first round, thus avoiding multiple protocol executions.

D-054

MATERIALS FOR WIND TURBINE BLADES, LOADING AND MANUFACTURING METHODS

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ABSTRACT

The paper is an overview on composite materials that are used in blades of a wind turbine. The manufacturing methods, type of loadings that a blade is subjected to are also discussed. The promising usage of natural hybrid composites for wind turbine blades and its recyclability for environmental concern are an important area of research.

Keywords : Hybrid composites, manufacturing methods

SORTING OF AUTOMATIC GEAR TRANSMISSION SYSTEM USING MICRO-CONTROLLER

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ABSTRACT

System consists of an improved control method that activates an electric motor to drive a torque-to-thrust converter for controlling the torque capacity of an electromagnetic clutch mechanism. The control utilizes a model-based feed-forward control in combination with a closed-loop position. The desired electromagnetic clutch torque capacity is characterized in terms of a desired motor speed (rpm) and position response as per motor position. The modeled speed and position in turn are used to create a feedforward command and this command is combined with a feedback command based on actual position error.

Keywords: Thrust Converter, Clutch, Torque

SEQUENTIAL QUADRATIC PROGRAMMING ALGORITHM BASED OPTIMIZATION OF SHELL AND TUBE TYPE HEAT EXCHANGERS

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ABSTRACT

Shell and tube type heat exchangers are having special importance in boilers, oil coolers, condensers and pre-heaters. These are also widely used in process applications as well as the power generation and air conditioning industry. The compactness and medium weighted shape of Shell and Tube type heat exchangers make them well suited for high pressure operations. The basic configuration, the thermal analysis and design of such exchangers form an included part of the curriculum of mechanical, thermal and chemical engineering scholars for their curriculum and research activity. Traditional design approaches using graph sheets are time consuming, these may not consider all the variables and constraints simultaneously. On the other hand some new evolutionary algorithms viz. Genetic Algorithm (GA), Particle swarm optimization (PSO), Imperialist competitive algorithm (ICA) are not simple to understand by a designer and are not easy to be implemented. Therefore, in present work, a new shell and tube heat exchanger optimization design approach is discussed based on sequential quadratic programming (SQP). The SQP algorithm has some good features in reaching to the global optimum in comparison to other evolutionary algorithms. In present study, SQP technique has been applied to minimize the total cost which includes capital investment and total discounted operating cost. The design variables considered in the present work are tube outer diameter, shell diameter and baffle spacing. A matlab code is developed based on SQP for optimal design of shell and tube heat exchangers. The different test cases are solved using code to demonstrate the effectiveness and accuracy of the proposed algorithm. The results using developed code are compared to those obtained from previous literatures. It is found that the SQP algorithm is efficient and it can be successfully applied for optimal design of shell and tube heat exchangers with higher accuracy.

A STUDY IN GESTURE CONTROL IN ROBOTS

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ABSTRACT

Robotics is an integral to present day engineering revolution. In this new industrial revolution, robotics has become a major influence in our industrial as well as day to day life. What has made more important is the fact that integrating it with control electronics could be result in various interesting results. Some of these are: IOT based, WiFi based, Bluetooth based, Gesture based, etc. In this paper an attempt has been made to make a study in gesture control. In the presented paper, a robot is designed whose motion would be controlled by hand control.

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ID-059

ATTENDANCE SYSTEM USING FACIAL RECOGNITION

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ABSTRACT

In today's blistering pace of population, forgery is proportional to the rate and biometric is the only source to overcome it to an extent. In which there's fingerprint sensor, voice recognition, facial recognition, etc. Face recognition plays a big hand in putting a halt to all the counterfeit happening. Seeing all the circumstances, the authors came across with a facial recognition program that uses computer vision to detect an individual's face and identify it with its data and help in managing attendance system of an institution. Attendance system required human work to keep a track of every individual back in the day, with facial recognition a considerable amount of work shall be reduced as computer can manage attendance as well as keep a track of it and in an institution every individual's attendance can be managed at a single place with the help of facial recognition.

A REVIEW ON SOFTWARE REALIBILITY GROWTH MODELLING

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ABSTRACT

Software reliability is the possibility of the failure free operation of software in a given period of time under some certain conditions. Due to demand of new features and highly reliable software system, the software industries are speeding their up-gradations/add ons in the software. The life span of software is very short in the environment of perfect competition. Therefore the software developers have to come up with successive up gradations to survive. The reported bugs from the existing software and Features added to the software at frequent time intervals lead to complexity of the software system and add to the number of faults in the software. The developer of the software can lose on market share if it neglects the reported bugs and up gradation in the software and on the other hand a software company can lose its name and goodwill in the market if the reported bugs and functionalities added to the software lead to an increase in the number of faults in the software. To capture the effect of faults due to existing software and generated in the software due to add-ons at various points in time, we develop a multi up-gradation, multi release software reliability model. Due to complexity and incomplete understanding of the software, the testing team may not be able to remove/correct the fault perfectly on observation/detection of a failure and the original fault may remain resulting in the phenomenon known as imperfect debugging, or get replaced by another fault causing error generation. The testing team is unable to eradicate the errors thoroughly on the observation of a failure because of intricacy and partial knowledge of software system, consequently, original errors persist or get exchanged by distinct faults thus the occurrence is termed as imperfect debugging and error generation, respectively.

Keywords: Up-gradation–NHPP–Laplace trend–Imperfect debugging, SRGM, Simple, Hard & Complex faults.

ID-061

FLY ASH CONCRETE: A TECHNICAL ANALYSIS FOR COMPRESSIVE STRENGTH

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ABSTRACT

Flyash, a waste generated by thermal power plants is as such a big environmental concern. The investigation reported in this paper is carried out to study the utilization of flyash in cement concrete as a partial replacement of cement as well as an additive so as to provide an environmentally consistent way of its disposal and reuse. This work is a case study for Deep Nagar thermal power plant of Jalgaon District in MS. The cement in concrete matrix is replaced from 5% to 25% by step in steps of 5%. It is observed that replacement of cement in any proportion lowers the compressive strength of concrete as well as delay its hardening. This provides an environmental friendly method of Deep Nagar flyash disposal.

Keywords : Flyash, Cement, Compressive strength

CASE STUDY OF THE OTTERSPOOL RAILWAY STATION, UK TO MEASURE THE BENEFIT OF BIM

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ABSTRACT

(Building Information Modeling) being an advanced supporting tool for AEC industry, by understanding its value and importance many developed countries like UK, USA, Germany, etc. made the BIM design as mandatory for maximum of the public project. Even though it is practiced in a few developed countries, in many developing countries like India, it doesn't make BIM mandatory in public projects. This paper highlights on the benefits of using BIM in the AEC industry, also will address a few problems facing in the absence of BIM, and how it can be solved by application of BIM concept into AEC industry. This paper, through light on the different phases of construction, like pre-construction phase, construction phase, post-construction phase in which how the BIM could be implemented and the benefits of implementing BIM. This paper presents a live example of BIM implementation in an Otterspool railway station project, UK. For effective implementation and outcome of the project the basic BIM strategy is used. The data of that project are presented with 5D of BIM before execution. After execution, documentation is done at the level of LOD 500. By implantation of BIM, we have acquired about 70% higher accuracy in cost prediction, 85% improved the schedule by better allocation of resources, reduced error in construction by 85%, avoided rework and wastage of construction material and also provided a better level of understanding for client and contractors. This research finding case study stating that, there is a higher potential for BIM benefits in the AEC industry, which has to be realized by the Government of India and must take the initiative for implementation of BIM in all levels of projects for the benefit of the client, contractor, project team and other teams involved in it.

Keywords: BIM (Building Information Modeling), AEC industry, higher potential for BIM, Pre-construction phase, construction phase, post-construction phase

ID-063

IMPACT OF PAVEMENT MATERIAL ON ENVIRONMENT

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ABSTRACT

In today's world pollution is one of the biggest problems and this have adverse effect on environment also. Now a day's temperature of environment is increase day by day. In 2018 the average temperature of India is 30° C to 40° C but in2019 it is increase by 32° C- 48° C. Rise in temperature also effect the environment by reducing the rain fall. This rise in temperature affecting our life also we get exhausted, feels tired etc. In this study we are comparing the rise in temperature because of pavement material by dry bulb thermometer in an interval of 2 hours. We have taken the temperature at three different places (in bitumen road, in concrete road and in garden area) and their difference in temperature is compared. The research recommends the restructuring of the south Delhi to make provision for creation of more green areas rather than pavements and concreted areas to reduce the effects of rise in temperature and ultimately improve the comfort and living conditions of the people of south Delhi.

ENHANCEMENT USING QUANTUM COMPUTING IN MEDICAL SCIENCE

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ABSTRACT

Quantum theory is one of the most successful theories that can have influence in medical Science progress during twentieth century. The main purpose of this paper is to examine some applications of Quantum Computation in Medical Science. A quantum computing already solved many problems by using many algorithms. Through this technology we can solve many problems in medical Sciences. A quantum computer may have solved a problem in minutes that would take the fastest conventional supercomputer more than 10,000 years. Over the last two decades, advancements in medicine and biomedical research have been vastly. As we begin to enter an age of personalized healthcare, dependent on genomics, individual physiology and pharmacokinetics the need to take huge amounts of data and process it in a format for clinical use will become more urgent. By using Quantum computing in medical science we enhanced the working in this fields which can help us to solve many problems. Quantum computing may be best tool for achieving this.

Keywords: Quantum Computing, qubit, bit, medical science, quantum mechanics

HARDNESS OPTIMIZATION IN TURNING OF ALUMINIUM USING TAGUCHI TECHNIQUE

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ABSTRACT

In this research work, L27 orthogonal array based Taguchi optimization technique is used to find the optimal cutting parameters for change of hardness in turning operation. The orthogonal array, the signal to noise ratio and analysis of variance are employed to study the performance characteristics in wet machining of Aluminium cylindrical work pieces using mild steel cutting tool. Three machining parameters such as cutting speed, feed rate and depth of cut are optimized with consideration of hardness on Rockwell scale. Empirical relations by regression developed to predict the hardness as a function of considered process parameters based on the analysis of experimental results. It is observed that in case of Aluminium, feed and depth of cut are the most significant parameters affecting hardness of the material.

Keywords: Hardness, Taguchi, S/N ratio, main effect, ANOVA

A STUDY IN IMAGE PROCESSING FOR E-WASTE

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ABSTRACT

In modern era, it is almost impossible to conceive the idea of life without electrical and electronic equipments. These have simplified our day to day tasks. With advent in IT sector and subsequent areas of development, it can be clearly seen that these equipments shall be improved and their importance shall also increase. However, with making our lives at ease these equipments pose an immediate danger to us by making our environment toxic. In this form, they are commonly known as e-waste. This paper presents a study to segregate the electronic wastes according to their size for proper disposal. For this, image processing has been studied and a method is proposed for disposing electronic wastes.

REVIEW OF HYDROGEN POWERED 2-STROKE S.I. ENGINE (HHO ENGINE)

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ABSTRACT

Considering the current scenario of petroleum fuels, it has been observed that, they will last for few years from now. On other hand, the ever increasing cost of a gasoline fuels and their related adverse effect on environment caught the attention of researchers to find a supplementary source. For commercial fuels, supplementary source is not about replacing the entire fuel, instead enhancing efficiency by simply making use of it in lesser amount. Form the recent research that has been carried out to focus on the use of Hydrogen rich gas as a supplementary source of fuel has increased. But the problem related to the storage of hydrogen gas confines the application of pure hydrogen in petrol engine. Electrolysis of water can give us hydrogen in form of Brown's gas (HHO gas) or oxy-hydrogen gas, which can be used as an alternative fuel for any internal combustion engine. An attempt has been made in this work to use alternative fuel in two stroke petrol engine. Our fore most aim in selecting this project to research for find solution is to use non-conventional fuel against conventional fuel which is becoming scarce and costly now days.



ID-069

MODELING AND ANALYSIS OF DIFFERENT SHAPED CANTILEVER BEAMS IN MATLAB

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ABSTRACT

cantilever beams find their application in biosensors like glucose sensors and gas leak detectors because of their characteristics like ability to render measurable mechanical responses quickly and sensitivity to miniscule amount of external force. due to its variable features analysis of cantilever beams is very important. This paper deals with the modeling and analysis of different shaped cantilever beams using MEMS module in Matlab.

Keywords: MEMS, Cantilevers, Matlab

WEIGHT OPTIMISATION OF SPUR GEAR

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ABSTRACT

An underlying aspect in engineering is to achieve a design by reducing weight of a component without having a negative consequence on strength requirements. This has been a major concern for design engineers to improve upon weight considerations while keeping other attributes unaffected. It has been a challenge to improve a design attribute without other's expense. This study explores an involute spur gear that has been lightened. The methods adopted for lightening the gear are different for different researchers. A casualty stall situation where the gear shaft is attempting to turn the gear but the gear teeth are prevented from moving develops stresses internal to the hybrid gear assembly. For designing the gear, Lewis bending equation is used to determine maximum load that the gear can transfer without getting plastically deformed. This load is then converted to a maximum torque value which is then applied to the entire gear. Different models of a single steel tooth are analyzed using the Finite Element Analysis (FEA) to verify results from the Lewis equation. The results are compared with that of a solid metal gear which is also designed for the same load considerations. The gear is lightened by different methods for eg: by providing holes in the hub and replacing the metal with composite materials. The presented paper attempts to understand the feasibility of these works with respect to weight of the involute gear.

Keywords: Spur gear; CAD; FEA; Composite; Torsion; Tooth Bending; Abaqus; Ansys; Mesh Convergence

APPLICATION OF ADVANCED OXIDATION PROCESS FOR WATER AND WASTEWATER TREATMENT : A REVIEW

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ABSTRACT

Advanced oxidation process is a highly efficient and modern method, first proposed in 1980s used for treatment of water purification and recovery. In this treatment, hydroxyl (OH[•]) radicals and sulfate (SO₄²⁻) radicals are used. AOPs are excellent method for remediation of contaminated waste waters containing recalcitrant organic pollutants. hydroxyl radicals generated are highly efficient in removing the non easily removable organic compounds from waste water. This paper presents a review of various advanced oxidation process and describe various materials used in the process. AOPs utilize the potential of ozone (O₃), UV, Hydrogen Peroxide (H₂O₂) and hence provide a powerful treatment of water and waste water.

Keywords: Advanced Oxidation, Hydroxyl Radical, Organic, Waste Water.

SOLVABLE LIE ALGEBRA AND LIE'S THEOREM**Sarvesh Kumar Mishra¹, Dr. Suneeta Choudhary², Alok Kumar Maurya³, Ankit Kumar⁴**^{1,2} Assistant professor, Deptt of applied science, MIET, Greater Noida (U.P)^{3,4} Assistant professor, Deptt of Mechanical Engineering, MIET, Greater Noida (U.P)**ABSTRACT**

A simply connected Lie group is completely determined by its Lie algebra. By this, of course, we mean that it is determined to within isomorphism. We now discuss the possibilities for Lie groups which are not simply connected. We say a Lie group is connected if every two points of it can be joined by an arc lying in the group. If a Lie group is connected, we call it simply connected when every simple closed curve in the group can be continuously shrunk to a point without any part of it passing outside the group in the process. By a component of a Lie group we mean a maximal connected subset, i.e., all the elements which can be connected to some given element by arcs in the group. In this research we consider the situation where the Lie group is not connected. It can be shown that the component containing the identity is always a closed normal subgroup of the Lie group and that the components are precisely the cosets of this normal subgroup. We can regard this collection of cosets forming the quotient group, as an abstract group. (Indeed, if we take it to be a discrete group the natural mapping is analytic.) The study of the algebraic structure of a Lie group which is not connected can almost be broken into two parts :the structure of the connected subgroup forming the component of the identity and the structure of the discrete quotient group

REVIEW PAPER ON SECURITY MEASURES IN DIGITAL WATERMARKING

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ABSTRACT

Watermarking is the technique in which digital data is hidden in carrier signal. Steganography is the process in which digital data (file, message, video etc.) is embedded within another file, message and video. Steganography secures the information from intruders whereas watermarking algorithms are used for keeping the watermark robust to attack. When the intruder wants to penetrate the signal and tries to remove the watermark then quality of the signal is degraded and it becomes useless. There are many area in which information hiding is required. Two type of attacks are there. First one is active attack in which the attacker changes the whole content. Second one is passive attack in which the attacker tries to guess the secured information by eavesdropping. This paper presents different image data hiding attacks.

PROCESS OPTIMIZATION METHODS FOR SHOP FLOOR PLANNING: A STUDY

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ABSTRACT

Process optimization methods means regulation of production processes, and it must have done for shop floor improvement without changing any constraints. Process optimization is a quantitative technique for industrial decision making. So far whatever methods used for shop floor planning so far include mainly lean, kaizen, total quality management, and six sigma. These methods are used for maximizing productivity by the elimination of non-productive activities. The research work done so far, mostly focuses on the implementation of lean manufacturing as process optimization methods. The main aim of the present paper is to evaluate the present condition of process optimization methods used for shop floor planning. To do so, several articles were collected from journals which dealt with the implementation of process optimization methods. This study illustrates the present implementation level of process optimization methods in the worldwide industrial scenario and provides a unified theory for the implementation of process optimization methods.

Keywords: Process optimization methods; Lean manufacturing; Shop floor management; Waste elimination; Non-productive activities

PROTECTION OF SOFTWARE CODE OF IOS (IPHONE OPERATING SYSTEM) APPLICATIONS USING DIGITAL WATERMARKING TECHNIQUES

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ABSTRACT

The primary goal of software code watermarking is to create vigorous and steady watermark for programming code. Watermarking for programming code developed as a vital solution to give copyright protection, alter detection and to keep up the integrity of information. A significant area where the programming code is remarkably evolved it must requires dependable scheme for checking programming code modification and trustworthiness. Programming designers are broadly reused their one of a unique programming code to diminish improvement time during applications advancement. Unapproved changes to code can causes genuine outcomes and might be huge misfortunes for the association. This paper proposes a feasible reason for securing the trustworthiness of the programming code for iOS which is required to be set on open condition by utilizing computerized watermarking. Earlier strategies for watermarking programming code utilize various methods to make a watermark..

Keywords: iOS; Software Code; Digital Watermarking; Piracy

LI-FI COMMUNICATION USING OFDM VISUAL LIGHT COMMUNICATIONS

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ABSTRACT

In this paper wireless communication using white, high brightness LEDs (light emitting diodes) is considered. In particular, the use of OFDM (orthogonal frequency division multiplexing) for intensity modulation is investigated. Li-Fi have a unique modulation technique called single carrier techniques multi-carrier techniques and color modulation techniques. Modulation techniques are as On-Off keying, Pulse width Modulation, Pulse Amplitude Modulation, Orthogonal Frequency Division Modulation and alternative digital modulation technique are summarized. Simulation is the imitation of the operation of a real-world methodology. The act of simulating requires that a model be developed and simulates the operation of the system over time. This paper tends to analyze the single carrier modulation techniques such as BPSK, QAM, and also tends to provide information on digital modulation technique parameters as Bit Error Rate, and its Performance.

Keywords: VLC; QPSK ; QAM ;BER.

IMPLEMENTATION OF DIGITAL MODULATION TECHNIQUE USING MATLAB

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ABSTRACT

The transmission of message signal (be it in analog or digital form) over a band pass communication channel requires a shift in the range of frequencies contained in the signal into other frequency range is suitable for transmission. A shift of the range of frequency in a signal is accomplished by using modulation. In this paper we are implementing the digital modulation techniques which are binary amplitude shift keying (BASK), BFSK, that are used to transmit binary data over a band pass communication channel with fixed frequency limits set by the channel with the help of MATLAB software tool.

Keywords: Modulation, BASK , BFSK

ID-086

SIMULATION BASED SHUNT ACTIVE FILTER WITH FUZZY LOGIC CONTROLLER

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ABSTRACT

In this paper the troubles formed by non linear load as well as the solutions having been applied so far are briefly reviewed. A new simple and effective reference current generation method of a shunt active filter is proposed In this paper we developed MATLAB model of a typical power supply system with a nonlinear load and shunt active power filter is carried out and the results are presented which imply a better dynamic performance of the proposed scheme compared to the fuzzy logic controller for controlling voltage source inverter.

Keywords: Active Power Filters, Harmonics, fuzzy logic.

REVIEW PAPER ON ISSUES AND CHALLENGES FOR MODERN SYSTEM SECURITY

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ABSTRACT

Secure Network has now become a need of any organization. The security threats are increasing day by day and making high speed wired/wireless network and internet services, insecure and unreliable. Now a days security measures works more importantly towards fulfilling the cutting edge demands of today's growing industries. The need is also induced in to the areas like defense, where secure and authenticated access of resources are the key issues related to information security. In this paper Author has described the important measures and parameters regarding large industry/organizational requirements for establishing a secure network. Wi-Fi networks are very common in providing wireless network access to different resources and connecting various devices wirelessly. There are need of different requirements to handle Wi-Fi threats and network hacking attempts. This paper explores important security measures related to different network scenarios, so that a fully secured network environment could be established in an organization. Author also has discussed a case study to illustrate the minimal set of measures required for establishing network security in any organization.

Keywords: Cryptography; Security Attacks; Security Measures; Security Tools; Wan; Security Factors; Firewalls; Gateways; Intrusion Detection.

A REVIEW ON POWER QUALITY PROBLEMS AND IMPROVEMENT TECHNIQUES

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ABSTRACT

This paper will help the know different power quality Problems occurring in power system and provide brief idea about their solutions with comparative study. The term electric power quality (PQ) is generally used to assess and to maintain the good quality of power at the level of generation, transmission, distribution, and utilization of AC electrical power. Nonlinear loads. Therefore, power quality is quantified in terms of voltage, current, or frequency. In this paper power quality problems can be viewed as the difference between the quality of power supplied and the quality of power required for reliable operation of the load equipment. The new concept of advanced power electronic based Custom Power Devices (CPDs) mainly distributed static synchronous compensator (D-STATCOM), dynamic voltage restorer (DVR) and unified power quality conditioner (UPQC) have been developed due to lacking the performance of traditional compensating devices to minimize power quality disturbances. The main purpose of this paper is to overlook the sources and determine the most common power quality problems occurring in the power system and study the methods available for improving these problems.

CAUSES OF GLOBAL WARMING AND DIFFERENT SOLUTIONS

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ABSTRACT

In this paper deep concern about changes in the overall climate of the planet. Fossil fuels are being continuously used to produce electricity. The burning of these fuels produces gases like carbon dioxide, methane and nitrous oxides which lead to global warming. Deforestation is also leading to warmer temperatures. Global warming is the current increase in temperature of the Earth's surface (both land and water) as well as its atmosphere. Average temperatures around the world have risen by 0.75°C (1.4°F) over the last 100 years about two thirds of this increase has occurred since 1975. In the past, when the Earth experienced increases in temperature it was the result of natural causes but today it is being caused by the accumulation of greenhouse gases in the atmosphere produced by human activities. The paper introduces global warming, elaborates its causes and hazards and presents some solutions to solve this hot issue. Above all, alternative energy sources (solar, wind, hydro, geothermal, bio mass) need to be seriously pursued. Finding and using renewable sources of energy is one of the methods to combat the ever increasing global warming effectively.

Keywords: Climate, Fossil Fuels, Global Warming, Alternative Energy Sources

A STUDY IN ISOGEOMETRIC ANALYSIS

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ABSTRACT

In modern era, designers generate Computer Aided Design files which are scaled into analysis suitable geometries. These geometries are analyzed through finite element codes. Although it is an advanced method form the times when a geometry was worked on a drawing board with pencils and later passed to a stress analyst, the task still is far from simple. For complex geometries it is estimated that over 80% of the overall analysis time is required [1]. Moreover, the engineering designs are becoming more complex. This paper is an attempt to study a new method of analysis namely isogeometric analysis which was first proposed by Thomas J.R. Hughes and aims at integration of CAD and FEA to reduce analysis time. This analysis reconstitutes design and analysis part so as to produce a geometric model readily available for analysis.

Keywords :Isogeometric Analysis, CAD, FEA, NURBS, B-splines, T-splines.