2nd Online International Conference on *"Continuity, Consistency and Innovation in Applied Sciences and Humanities"* (ICCIASH-2021)

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Department of ***Science and Humanities*** Presents

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Dr.P.Santosh Kumar Patra

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Department of Science & Humanities

2nd Online International Conference on "Continuity, Consistency and Innovation in Applied Sciences and Humanities" on 29th & 30th July 2021 (ICCIASH –21)

ISBN No: 978-81-952677-9-8

Sri. M. LAXMAN REDDY
CHAIRMAN

MESSAGE

I am extremely pleased to know that the Department of Science & Humanities of SMEC is organizing 2nd Online International Conference on **"Continuity, Consistency and Innovation in Applied Sciences and Humanities (ICCIASH-2021)"** on 29th and 30th of July 2021. I understand that the large number of researchers has submitted their research papers for presentation in the conference and for publication. The response to this conference from all over India and Foreign countries is most encouraging. I am sure all the participants will be benefitted by their interaction with their fellow researchers and engineers which will help for their research work and subsequently to the society at large.

I wish the conference meets its objective and confident that it will be a grand success.

M. Laxman Reddy

M. LAXMANREDDY
Chairman

Sri. G. CHANDRASEKHAR YADAV
EXECUTIVE DIRECTOR

MESSAGE

I am pleased to state that the Department of Science & Humanities of SMEC is organizing 2nd Online International Conference on **"Continuity, Consistency and Innovation in Applied Sciences and Humanities (ICCIASH-2021)"** on 29th and 30th of July 2021. For strengthening the "MAKE IN INDIA" concept many innovations need to be translated into workable product. Concept to commissioning is along route. The academicians can play a major role in bringing out new products through innovations.

I am delighted to know that there are large number of researchers have submitted the papers on Applied Science & Humanities. I wish all the best to the participants of the conference additional insight to their subjects of interest.

I wish the organizers of the conference to have great success.

G. CHANDRASEKHAR YADAV
Executive Director

Dr. P. SANTOSH KUMAR PATRA
PRINCIPAL

I am delighted to be the Patron & Program Chair for the **2nd Online International Conference on "Continuity, Consistency and Innovation in Applied Sciences and Humanities (ICCIASH-2021)"** organized by the Department Science & Humanities on 29th and 30th of July 2021. I have strong desire that the conference to unfold new domains of research among the Applied Sciences and Humanities and will boost the knowledge level of many participating budding scholars throughout the world by opening a plethora of future developments in the field of Applied Sciences and Humanities.

The Conference aims to bring different ideologies under one roof and provide opportunities to exchange ideas, to establish research relations and to find many more global partners for future collaboration. About 350 research papers have been submitted to this conference, this itself is a great achievement and I wish the conference a grand success.

I appreciate the faculties, coordinators and Department Head of Science and Humanities for their continuous untiring contribution in making the conference a reality.

(Dr. P. Santosh Kumar Patra)
Principal

CONVENER

The second Online Mega International Conference on **"Continuity, Consistency and Innovation in Applied Sciences and Humanities" (ICCIASH-2021)** has concluded its work successfully on July 29th-30th July 2021 in St. Martin's Engineering College (SMEC), Hyderabad, India.

The ICCIASH-2021was organized online by the Department of Science and Humanities, SMEC, and the objective of this conference was to bring together experts from academic institutions, industries, research organisations for sharing of knowledge and experience in the recent trends and advances in Applied Sciences and Humanities.

The conference programme featured a wide variety of invited and contributed lectures from national and international speakers with expertise in their respective fields as well as oral and poster sessions. The ICCIASH has become one of the most extensive, spectacular international events hosted by SMEC for its high-level quality and the large size of participation.

Well- known international and national invited speakers addressed the audience, shared knowledge, and rich experiences on recent advances in Applied Sciences and Humanities in their respective universities and countries. Hundreds of attendees, paper presenters, and students have benefited in many ways from this conference. Nearly 270 theoretical and research papers were presented by authors from around the world. High quality papers will also be published in reputed UGC recognised journals.

The huge success of the conference was achieved because of the able support of the management and the Principal of SMEC. The entire team of the organisers would like to express their gratitude to the higher authorities of SMEC, and last but not the least, the participants who shared their immense knowledge using the platform of this conference.

Finally, we assure you that we are dedicated to come up with many more such programmes so that the process of sharing knowledge continues for the betterment of the teaching-learning community and the society at large.

DR. RANADHEER REDDY DONTHI
Professor & Head, Department of S&H

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PSYCHOGEOGRAPHICAL APPROACH TO THE NOVELS OF KHALED HOSSEINI

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Department of English, V.V.Vanniaperumal College for Women

Abstract:

In today's globalised world, political and national imperialism are the central issues for the gradual growth of terrorism and other destructive violence. The main reason for this problem is that the third world countries are considered as 'others'. Particularly, Islamic Arab countries undergo many sufferings under the clutches of the super power America. Afghanistan is the scapegoat which has been crushed over many decades. Many non- Afghan writers come forward to give voice for Afghanistan. But Khaled Hosseini, an expatriate does this whole heartedly through his pen. The colonial and postcolonial imprints in his novels reveal the fragile soul of Afghanistan. Hosseini has named his four novels after natural phenomenon like sky, sun, mountain and sea. The term psychogeography refers to the influence of nature on the consciousness of individuals. This paper entitled 'Psychogeographical Approach to the novels of Khaled Hosseini' is an attempt to analyse the close relation between nature and the human psyche. In addition to this, it will further enquire the implied meaning of the titles of the fictions.

Key words: *geography, psychology, Khaled Hosseini, postcolonial issues, titles, Afghanisthan, psychogeography*

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Paper ID: ICCIASH-2021/607

THE GROWTH OF E-COMMERCE DURING COVID-19 PANDEMIC

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Abstract:

The Coronavirus has altered global patterns thoroughly. In this research paper, the e-commerce developments in coronavirus plight were calculated as well as how advancements in e-commerce could affect customer behaviour in upcoming days. This paper explores the rise of e-commerce due to the coronavirus. E-commerce has become a reality and considered top. E-retailers have products that normally consumers bought in the store previously. The coronavirus affects e-commerce business at large. Meanwhile, we consider their effectiveness in stabilizing all costs, rewards and associated behaviour in the coming years.

Key words: *Covid-19, E-commerce, Retailers, Internet use.*

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Paper ID: ICCIASH-2021/417

Inquiry Based Learning: Challenges in Second Language Acquisition (SLA)

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APSWREIS, Jaggaiahpet, A.P

Abstract:

This paper aims at implementation of Inquiry Based Learning method and identifying challenges in Second language acquisition. There are popular Learning Styles are existing in language learning, but *Inquiry Based Learning* can be given priority for greater exploration of subject. IBL (Inquiry Based Learning) is a form of Constructive learning and comprehensive approach in which a learner researches ideas and gains information and insight on a chosen topic. Moreover, curiosity and interest is often stimulates the learner to develop deeper understanding of the concept and material. It involves the process of asking questions, investigation, creating ideas discussion and reflecting their findings. In this process, students of non-native speakers are not able to cope with time bound activities as well as inhibitions like fear of syntactical errors, presence of opposite gender in the class room etc.

Key words: *Enquiry, learning, multiple intelligence, learning styles, inhibitions, BLIVINME, hands on experience, VARK model, challenges etc.*

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Paper ID: ICCIASH-2021/421

Power and punishment in Game of Thrones: A Foucauldian Discourse

Shwetha R Rao

Amrita Vishwa Vidyapeetham

Abstract:

Power is the primary source of Discipline and conformity. Foucault points to a new kind of 'disciplinary power' observed in the administrative systems and social services that were installed in 18th century Europe, such as prisons, schools, and mental hospitals. Their surveillance system and assessment no longer required force or violence, as people learned to discipline themselves and behave in expected ways. Foucault ultimately suggests an institution's use of punishment is influenced by the method and subjugation of power. Interestingly, this article is an analysis of the famous American TV show, *Game of Thrones*, based on George RR Martin's fantasy novel series, *The Song of Ice and Fire*, telecasted in HBO from 17 April 2011 to 19 May 2019. In this paper, the TV series is analyzed from the Foucauldian lens of power, punishment, and Discipline. The analysis also discusses how power, when it keeps shifting and remains unknown, upon exercising, has better control and a hierarchical observation on society. This article further seeks to find out Foucault's intersectional theory between power, punishment, and control stands as the base structure to observe the hierarchical power, evolution of penalties from physical torture to mental rehabilitation in *Game of Thrones*.

Key words: *Power, punishment, Discipline, Foucauldian, GOT.*

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Paper ID: ICCIASH-2021/503

Breast cancer prediction using Machine Learning-A review

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Research Scholar, UIC, Chandigarh university, Punjab, India

Mansi Mathur

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Abstract:

The expectation of breast cancer survivability has been a difficult research issue for some analysts. Since the early dates of the related exploration, much progression has been recorded in a few related fields. For example, because of inventive biomedical innovations, better logical prognostic elements are being estimated and recorded; on account of ease PC equipment and programming innovations, high volume better quality information is being gathered and put away consequently; and at long last gratitude to better systematic strategies, those voluminous information is being prepared effectively and proficiently. Accordingly, the main objective of this manuscript is to report on an examination venture where we exploited those accessible mechanical headways to create expectation models for bosom disease survivability.

Key words: *Machine learning, supervised learning, unsupervised learning, classification.*

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Paper ID: ICCIASH-2021/314

Pathways of synthesis of nanostructure cadmium sulphide films

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Abstract:

Nanomaterials have the structural features in between those of atoms and the bulk materials. While most microstructure materials have similar properties to the corresponding bulk materials. the properties of materials with nanometer size are significantly different from those of atoms and bulk materials. Due to the nanometer size of the materials, there is large fraction of surface, high surface energy, spatial confinement and also reduced imperfections which do not exist in the corresponding bulk materials. On account of their small dimensions, nanomaterials have extremely large surface area to volume ratio, which makes a large fraction of atoms of the materials to be the surface or interfacial atoms, resulting in the more surface dependent material properties. Thus the properties of the bulk materials may be enhance or modified. For example, metallic nanoparticles can be used as very active catalysts. Chemical sensors from nanoparticles and nanowires enhanced the sensitivity and sensor selectivity. The nanometer feature sizes of nanomaterials also have spatial confinement effects on the materials which brings the quantum effects. Nanoparticles can be viewed as a zero dimension quantum dot while various nanowires and nanotubes can be viewed as quantum wires. The quantum confinement of nanomaterials has profound effects on the properties of nanomaterials. The energy band structure and charge carrier density in the materials can be modified quite differently from their bulk counterpart and in turn will modify the electronic and optical properties of the materials. To explore such aspect we have prepared nanostructured CdS thin films by electrochemical codeposition method using very low concentration of surfactant acetyl pyridinium chloride and characterized it.

Key words: *Nanomaterials, nanorange, characterization, thin films.*

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Paper ID: ICCIASH-2021/728

FLATWISE COMPRESSION ANALYSIS OF A NATURAL BASED COMPOSITE SANDWICH WITH FLAX AS REINFORCEMENT AND AGGLOMERATED CORK AS CORE

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Abstract:

Composite sandwich panels are mainly used for light weight structures since the concept is appurtenant due to extremely high strength and stiffness to weight ratios. In spite of this, low structural flexibility and high environmental and economic issues have retarded its wide range of application. Lately it has been proposed that improvement in mechanical characterization, economic and environment benefits could be achieved within realm of possibility using natural based composite sandwich structures comparing to prior sandwich structures. Therefore in this paper, a flax is used as a natural reinforcement and agglomerated cork as a core material which has been proposed as a natural based composite sandwich as well as a possible substitute to the existing one which has been discovered on investigation over mechanical properties. An experimental investigation was conducted to study the effect of sandwich panels with agglomerated cork on three different densities as a core material and the facing made of (i) glass, (ii) flax, (iii) hybrid, on mechanical aspect. The motive of this investigation is to determine the mechanical behaviour i.e. flatwise compressive strength and failure mechanisms of sandwich structures using flat wise compression test (ASTM C 365) and to compare their respective performance. The composite specimens were fabricated using vacuum assisted resin transfer molding process and tested in accordance with ASTM standards. The result elucidates that the specific compressive strength i.e. strength to weight ratio of the F240 is 16.7% and 10.98% higher than that of G240 and H240, F280 is 8.35% and 0.48% higher than that of G280 and H280, and F400 is 9.08% and 5.98% higher than that of G400 and H400 respectively.

Key words: *Natural Fiber, Agglomerated cork, Flat wise compression.*

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Paper ID: ICCIASH-2021/606

THE MIGRATION TREND IN GOA: AN OVERVIEW

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Abstract:

Goa was a Portuguese colony for 450 years, after which it was liberated and became a part of the Indian Union in 1961. Its association with the Portuguese had its impact on the character and attitude of the people and facilitated their migration and integration into different cultural contexts.

There were several causes that prompted the Goans to migrate such as conversions, the agrarian economy which was unprofitable, unemployment, improved means of transport and communication and educational prospects. Most often, it was the Goan Catholics who had a higher tendency to migrate to the west, because of their adaptable and liberal attitude. Hindus did migrate to other parts of India, to escape religious persecution on the part of their alien masters i.e. the Portuguese.

With the establishment of the British colonial government, many new employment opportunities were created, which motivated the Goans to migrate to metropolitan cities in India. Some Goans even migrated to Burma, Ceylon, Aden and British East Africa. In Africa, many Goans established business concerns. Goans working in foreign countries can be divided into three main catagories- Africanders i.e. those who settled in Africa, Tarvottis i.e. those who took up employment on ships, but returned back to Goa and the Gulfees i.e. those who sought jobs in the Gulf countries, but did not permanently settle there. So the term diaspora, cannot be used for theGulfeesand the Tarvottis.

After the liberation of Goa in 1961, the trend of migration continued. There were quite a few Goans, who opted for Portuguese citizenship, tried to acquire British nationality and migrated to the UK. Goans also shifted to other 'greener pastures' in Australia, USA, Canada, New Zealandand Brazil. Thus migration has become a way of life for the Goans.

Key words: *Migration, Diaspora, Conversion, Tarvottis, Kudds, Decolonization, Remittances.*

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Paper ID: ICCIASH-2021/727

Tensile strength of friction welded aluminium AA6061 and AISI1010 carbon steel

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Abstract:

In recent days, many researchers are interested in joining steel with aluminium alloys for the weight reduction in the mechanical components. This combination is used in the aerospace, automobile and construction fields. This is also helps in saving energy in our surrounding. This paper evaluates the continuous drive friction welding of AA6061 aluminium alloy with AISI1010 carbon steel. Most importantly this paper finds the optimization of various influencing parameters, such as friction pressure, friction time, forging pressure, forging time and rotational speed. And tensile strength tests were carried out on the joined specimen and the final test results are correlated with the base metal properties. It was found that the tensile strength increases with increasing friction pressure and after reaching the maximum point the tensile strength is decreasing gradually. For maximum tensile strength of 145 MPa, the optimized parameters are 1200 rpm, 60 MPa friction pressure, 40 MPa forging pressure, 3 sec friction time and 3 sec forging time.

Key words: *Friction welding, aluminium alloy, carbon steel, parameters optimization, tensile strength.*

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Paper ID: ICCIASH-2021/206

Synthesis and characterization of moO_3 nanorods with silver incorporation via hydrothermal route

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Abstract:

MoO_3 nanosheets with different concentration (2, 4 and 6wt.%) of Ag content were successfully synthesized using hydrothermal method. The synthesized samples were studied using X-ray diffraction (XRD), Field emission scanning electron microscopy (FESEM), UV–vis spectroscopy and Fourier-transform infrared spectroscopy (FTIR). XRD confirm the formation of MoO_3 nanorods with silver content. Crystallite sizes were estimated from XRD peak broadening using Debye Scherrer method. Increasing the concentration of Ag contents has a significant impact on the surface morphology of MoO_3 .The surface morphology studied using FESEM which show the formation of MoO_3 nanorod with silver particles agglomerated on it. EDX study confirmed the Ag incorporation. The FTIR confirm the presence of chemical bonding and stability of phase formed. The optical band gap was estimated from reflectance data of UV–vis diffuse reflectance spectroscopy.

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Paper ID: ICCIASH-2021/732

Load Frequency Control of AC Microgrid Interconnected with a Thermal Power System

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Abstract:

In this paper, a Microgrid (MG) power generation system is interconnected with thermal power system for load frequency control. The Microgrid system employs various types of autonomous generation systems like wind turbine, solar photovoltaic, diesel engine, fuel-cell, and aqua electrolyzer, along with other energy storage devices like the battery. The frequency regulation is main concern in any microgrid which has been addressed in this paper. Here proportional integral derivative (PID) controller and proportion integral (PI) controller has been used to reduce the frequency deviation of a two area ac microgrid interconnected with thermal power system. To obtain the tuned control parameters Differential Evolution (DE) algorithm technique is applied. The parameters of Proportional Integral Derivative (PID) and Proportional Integral (PI) are optimized employing DE algorithm. In the end, the results of two area power system with PID & PI controller have been compared by observing various parameters. It is noticed that, the performance of PID controller is better than PI controller. The simulation results indicate improved performance in terms of frequency regulation of the microgrid system.

Key words: *microgrid, renewable energy sources, load frequency control, differential evolution algorithm.*

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Paper ID: ICCIASH-2021/730

A NOVEL HYBRID SECURITY MECHANISM BASED ON QUANTUM ENCRYPTION AND PSEUDORANDOM LEAST SIGNIFICANT BIT STEGANOGRAPHY FOR DATA SECURITY

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Abstract:

In our proposed model, we have implemented a hybrid security mechanism based on quantum encryption and pseudorandom least significant bit steganography. The quantum based encryption process helped in achieving low time complexity. Also, the pseudorandom LSB helped in hiding the data at random positions which couldn't be retrieved by intrude. Our proposed model has the large embedding capacity due to lossless compression of data. Analysis of results in comparison to various hybrid security mechanisms available in the literature illustrates that the proposed framework not only depicts best UIQI and Jaccard index. The comparison result depicts that the proposal outperforms the state-of-the-art methods with better performance parametric value in all aspects.

Key words: *Compression, Encryption, Hybrid security mechanism, Quantum encryption, Steganography.*

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Paper ID: ICCIASH-2021/416

Incorporating language learning labs to enhance the speaking skills in the primary level of students

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Dr. M. Latha

Department of English, KLEF, India

Abstract:

This paper aims about the importance of language learning labs to improve speaking skills in primary level students. The fact is that the foundation should be very strong when a student is learning something. Here a student is trying to learn the language it should learn from its roots then that the learner can easily get command on that targeted language. Language learning labs play a major role in learning the targeted language. Sometimes students get confused in the pronunciation, the spelling of few words. The English language becomes essential all over the country. Enhancing speaking skills makes people successful in their endeavours. It becomes necessary in day-to-day life. Language learning labs give a solution to the problems faced by the students in learning a second language. There won't be any quality-related issues when they learn the second language by taking the help of language learning labs.

The primary level of students can easily practice the pronunciation of difficult words and can fulfil their language learning thirst. People should accept that language is not the same as any other subject and it is not easy to learn it professionally. The language learning lab is a technical aid with advanced facilities which can help a student to learn a second language with its roots. People should understand the significance of language laboratories in learning a second language.

Key words: *Language Learning Labs, Pronunciation, Technical aid, Second language, Targeted language, advanced facilities.*

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Paper ID: ICCIASH-2021/423

TRAGIC OPTIMISM: EXISTENTIAL VACUUM OF YUVRAJ SINGH'S THE TEST OF MY LIFE FROM CRICKET TO CANCER AND BACK

K. Pradeepa

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Abstract:

Existentialism is an approach which emphasizes the existence of an individual person. Existence is always particular and individual, investigation of the meaning of being. Meaning crisis is to restore meaning and if you don't find a meaning for your life we will become depressed, regularly uncreative and unproductive and sometimes even suicidal. One must take the cruelty of life and the inexorability of death into ourselves, not by mourning but by experiencing our despair to the fullest. Tragic Optimism is a kind of positive belief within ourselves were man can make their suffering into meaningful one. It made one's life worth living in spite of sufferings and limitations. A celebrities like Yuvraj Singh who faced tragic moments in their life where they changed those tragedies into a success. Facing all the challenges in their life, they started to overcome all those incidents and self actualized and making their mind a stronger one. Here the researcher wants to give an extensive outlook in psychological perspective of how a human being mental state is balanced when they are facing the tragedy and making into a successful one.

Key words: *Existentialism, meaning crisis, mental state, Tragic Optimism.*

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Paper ID: ICCIASH-2021/809

A Study on Evolution of New Era of Electrification in Indian Railways with reference to its Pros and Cons

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Upadhye Chetan Gajananrao, Bhavesh Gajanan Apotikar, Surajkumar Suryawanshi, Sumedh Deshpande

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Abstract:

With a view to reduce the Nation's dependence on imported petroleum-based energy and to ensure the Country's energy security, as well as to make the Railway System more eco-friendly and to modernize the system, Indian Railways have been progressively electrifying its rail routes. Electrification of rail routes not only results in increasing economic efficiency by reducing its operating cost.IR uses near about 2% of total fuel required by the country. They have always been innovative from time to time in order to make it more efficient. From last year's IR has taken a pace and are stepping towards complete electrification which will be ultimately saving near about 40k crores on overall expenditure of IR.

Key words: *Operational, efficiency, Economically, Electrification, Energy, Services, Revenue.*

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Task Based Learning: The New Approach of being a Part of the Solution

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Abstract:

In the contemporary scenario, Task Based Learning is an essential part of Outcome Based Education (OBE) which provides an alternative teaching method for new age teachers. As OBE promotes high expectations and greater learning for the students, it fosters authentic forms of assessment, and encourages decision making at various levels. Task Based Learning (TBL), being an integral of OBE, is quite a contrast to the conventional teaching method of Present Practice Produce (PPP), and is more student-oriented while managing to reconstruct, plan and impart education in an effective way. This paper seeks to analyse the method of TBL used for technical students to instruct and educate and it attempts to scrutinize how the students get involved in the tasks while studying language lesson in a particular interactive method as well.

Key words: *TBL, OBE, Language, Learning method, student oriented.*

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Collaborative learning

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Abstract:

Collaboration may be a common working practice where individuals work together for a standard purpose to achieve something, complete a task, to solve a problem or to reach a common goal.

Collaborative learning (CL) where group of learners, learn or attempt to learn something together. It is different from traditional learners where student's teacher interaction takes place.

Where as in Collaborative learning (CL) learning is no longer lead by the teacher. Where student thinking and curiosity guide the inquiry. Students do research and build on their knowledge. The student's approach on their inquiry is based on the concept that knowledge can be shared when students react to them through their actively interact with each and participate in learning activities and clearing their doubts.

Collaborative learning activities vary widely, but most center on students as they may be responsible for each other's learning It's as a relationship among learners that requires positive independence, active participation, individual accountability and interaction.

Collaborative learning (CL) develops higher level of thinking skills, increases student retention, promotes student faculty interaction and familiarity. This paper focuses on collaborative learning and examine the factors contribute to its success. The study further addresses how students enhance satisfaction with the learning experience.

It ends with discussion on the limitation and recommendation of this study.

Key words: *Learning Style, Critical Thinking, Social Interaction.*

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Paper ID: ICCIASH-2021/902

A Review on Everything about Pega

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Abstract:

For BPM and CRM Applications, PEGA is an application development tool. It uses no programming/coding to develop web & enterprise applications and it is a java backend engine There is a lot of framework built on the Pega Process Commander to support various aspects of business requirements. As automation and proficiency are continuously increasing in one of the corresponding skills for gaining grip either in India or elsewhere, it provides the skills to work with Pega. Pega will be getting into trend in upcoming generations. Pega Rules Process Commander (PRPC) is a software product created, licensed, and marketed by Pega systems Inc. PRPC is a Business Process Management (BPM) tool that allow business to fetch as one distinct, dissimilar, and multifarious business process and the rules on top of single platform. PRPC or PEGA Rules Process Commander is absolutely not a language or a compiler etc. It's a Business Process Management tool. Major companies like Oracle, Google are now using Pega course as their daily software. There might be a huge demand for Pega course in the coming decade.

Key words: *CRM, BPM, PEGA.*

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Paper ID: ICCIASH-2021/903

Internet of Behaviour (IoB) and the future - A Detailed Review

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Abstract:

The Internet of Things (IoT) is a network of interconnected physical objects that collect and exchange information and data over the Internet. The way in which devices are interlinked, the computations can be processed exclusively by these objects and the data which was stored in the cloud disclosed in more conglomerate way. Data collection (BI, Big Data, CDPs, etc.) provides valuable information about customer behaviors, interests and preferences, and this has been referred to as the Internet of Behaviour (IoB). It looks around to address how to sympathize the data as the question arises immediately, and how to apply that sympathized data to bring into existence and new products should be marketed, all are from a human psychological point of view. With the analyzed results it enlightens new ways for designing of a Search Experience Optimization (SXO), User Experience (UX), and the way how to market the services offered by companies and their end products. Consequently, for a company to conduct IoB is technically simple, but psychologically complex. For this, it needs to conduct statistical studies which will map everyday behaviour and habits of consumer without disclosing completely the privacy of consumer for legal and ethical reasons. IoB also teams up with technologies which focus directly on the individuals such as location tracking, Big Data, and facial recognition. Therefore, it is a combination of all the three fields - Data Analytics Technology along with behavioural psychology.

Key words: *IoT, big data, IoB.*

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Paper ID: ICCIASH-2021/906

A Review on MIFI Description and Activities

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Abstract:

MIFI (Mobile Wi-Fi) is a brand name used to describe a wireless router that acts a mobile Wi-Fi network. It was previously known as "Novatel Wireless & quot;. MI-FI team has expressed the need for close-range support labs in order to perform qualification tests, procedure tuning, mock-up testing, site acceptance tests as well as training of assembly staff and logistics management. Mi-Fi owns a registered trademark on the MiFi & quot; brand name; in the United Kingdom, mobile operator Hutchison 3G owns the & quot, MiFi & quot; trademark. "Novatel Wireless" has never offered an official explanation for the origin of the name & quot; MiFi & quot; In July 2014 the "Mi-Fi" agreement (Magnet Infrastructure Facilities for ITER) has been signed between CEA and ITER Organization (IO). It precedes to the establishment of a storage area and 4 laboratories committed to magnet instrumentation segments. This paper describes the general portrayal of the work association in MIFI. It also provides information regarding the most important current activities with precise focuses on crucial qualification actions like diagnostic of "Glass- Kapton-Glass & quot; (G-K-G) resin impregnated insulation, high voltage testing and test of the "Intermediate Outer Inter coil Structure" (IOIS) assembly procedure and the scale 1 mock-up

Key words: *Wifi, ITER, Novatel wireless.*

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Paper ID: ICCIASH-2021/907

Computers Graphics in Film Making- A Review

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Abstract:

Computer Graphics is an art of drawing pictures, charts etc on computer screen by using programming language. In computer graphics, objects are presented as a collection of discrete picture pixels user can edit graphic object with the help of keyboard or touch sensitive panel on the screen. Graphic devices are combination of input devices and display devices. A few topics in computer graphics includes user interference design, sprite graphics, rendering ray tracing, computer animation and many more. It gives a high-quality graphic display on the personal computer. It provides tools to produce the picture. It also produces the animation using motion dynamic tools user can make object stationary and the viewer moving around them in computer graphics using update dynamic. It is possible to change the shape, color and other properties of an object. Computer graphics are used in many areas for example graphical user interface area in the field of educational software and multimedia environment also in biology labs and education and training field, in the area of visualization and in computer generated maps. This article gives information regarding 2D graphics in film making.

Key words: *graphics, picture, graphical user interface.*

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Paper ID: ICCIASH-2021/908

A Review on Security and Privacy in Social Networks

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Abstract:

Most folks are a part of social networks to share their information and confine contact with people they know. The most significant feature of social networks could be friend finder that enables social network users to go looking for those that they understand so build up their own online community. Most of social network users share an large outsized quantity of their non-public info in their social network areas. This information ranges from data point info, contact info, comments, images, videos, etc. several users publish their info in public without any careful thought. Hence, social networks become an outsized pool of sensitive information. Moreover, social network users tend to possess a high level of trust toward alternative social network users. They have an inclination to simply accept friend requests simply, and trust things that friends send to them. Thanks to of social networks giant population and knowledge base and its easy accessibility; social networking websites have become new targets that attract cyber criminals. With these social network characteristics and also the additional aggressiveness of attacker's strategies, privacy and security issues in social networks have become a crucial issue within the cyber world. Therefore, this paper can gift a survey on privacy and security problems that occur in online social networks. The subsequent section of the paper can gift completely different privacy and security problems in online social networks. This article reviews about different issues that occur in social media network.

Key words: *Social network, privacy.*

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Paper ID: ICCIASH-2021/911

Time Management and its Strategies-A Qualitative Study

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Abstract:

Time management is an essential component of leadership. Leaders need to develop strategies to maximize time in order to achieve personal and organizational goals. While there are numerous time saving methods, leaders will need to test and determine which patterns are most effective for their personal style. There are some organizational strategies that will benefit the individual leader as well the organization such as planning, goal setting, delegation, decision authority, and work life balance. By managing time, the leader is accounting for the important commodity of time within an organization.

"Time management" refers to the way that you organize and plan how long you spend on specific activities.

It may seem counter-intuitive to dedicate precious time to learning about time management, instead of using it to get on with your work, but the benefits are enormous:

- Greater productivity and efficiency.
- A better professional reputation.
- Less stress.
- Increased opportunities for advancement.
- Greater opportunities to achieve important life and career goals.

Failing to manage your time effectively can have some very undesirable consequences:

- Missed deadlines.
- Inefficient work flow.
- Poor work quality.
- A poor professional reputation and a stalled career.
- Higher stress levels.

Key words: *Time management, stress, strategies.*

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Paper ID: ICCIASH-2021/914

Artificial Hand Using Embedded System

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Abstract:

The loss of hand function following an injury, amputation of arm or any serious problem can severely affects a person's quality of life. Artificial hands are the substitute for natural hands in people, but the question is how artificial hands will work effectively. Ideally, any artificial hand should be capable of emulating the natural hand in terms of grasping and gripping objects of varying geometries and physical properties. Despite the technological progress in robotics achieved in the last decades, prosthetic limbs still lack functionality, reliability, and comfort. The most common prosthetic hand is the Claw hook. Thus, to resolve this problem Embedded System is used in artificial hand. The goal is to design and develop a low-cost artificial hand that can be used to provide versatile grasp. Microcontroller and microprocessor play an important role in all types of control applications. Embedded system is a combination of hardware using a Microprocessor and the suitable software along with additional mechanical or other electronic parts designed to perform a specific task. And here this combination is known as Artificial Hand using Embedded System.

Key words: *Artificial Hand, Embedded System, software.*

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Paper ID: ICCIASH-2021/915

THE INTERNET IN EVERYDAY LIFE

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Abstract:

The internet Honestly, how did we survive without it. You wouldn't be reading this without the internet. You wouldn't be able to take your EF English Live classes without it. We use the internet for so many things in life. whether it's finding answers to everyday questions, contacting business partners, or just searching for information. To help you find your way around the web, here are some common words associated with it.

First, let's start with your connection. A '**connection'** is the way you are able to use the internet. The two most common ways are DSL or Wi-Fi. A DSL connection requires a cord to your computer while a Wi-Fi connection is wireless. Some connections are fast and some are slow. A Wi-Fi connection is often available in cafes or bars. Once you're connected, what do you surf the internet for? **'Surfing the internet'** means searching for something on the web. While you're surfing the internet, you will come across many websites. 'Websites' are the web pages you see online, each has a unique address or URL. You are on our blog's website right now.

There are all kinds of websites out there, like blogs and forums. You're reading a **'blog'** right now. It's a less formal website usually focusing on a certain subject or topic. There are many types of blogs, and we can even use the word blog as a verb, as in, 'I am blogging right now'.

A '**forum**' is a discussion page. People often post questions to receive answers from other people. If you have ever had a problem and looked on the internet for a solution, you might have read of someone with the same problem on a forum.

Key words: *Internet, Wi-Fi, connection, forum.*

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Paper ID: ICCIASH-2021/922

SOLAR MOBILE CHARGER

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Abstract:

It works on the principle that when light falls on the solar cell, electron -hole pairs are created in the n-type emitter and in the p-type base. The generated electrons (from the base) and holes (from the emitter) then diffuse to the junction and are swept away by the electric field, thus producing. Certain modules are selected and worked out to suitable specifications.

The development of solar charger goes from the fundamental level like soldering lamination and making the panel etc. The developed charger is planned for 6 Volts with ma capacity at bright sunlight and step down to 5Volts using regulator. In the report, the detailed experimental characteristics of mobile charger are noted.

Solar energy is the energy produced directly by the sun and collected elsewhere, normally the Earth. The sun creates its energy through a thermonuclear process. The process creates heat and electromagnetic radiation. Only a very small fraction of the total radiation produced reaches the Earth. The radiation that does reaches the Earth is the indirect source of nearly every type of energy used today.

Key words: *electron -hole pairs, Solar energy.*

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Paper ID: ICCIASH-2021/923

An overview on optical fiber cables and how the technology has aided us from 1 g to 5 g

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Abstract:

The invention of the OFC was started from the initiative of providing it to every human being on the earth to communicate. So at the older times we have used copper cables in order to communicate with each other, but as it was very costly of installing copper wires and for the maintenance of the copper cables the poor was not able to afford.

This optical fibers are classified into types depending upon the material, no of modes and Refractive index profile. Optical fibers has Advantages and also Disadvantages one of the main advantage is it is used in the field of communication. It is used in short distance data transmission and long-distance telecommunications. But it is very costly when compared to the copper wires. As it has much greater bandwidth than metal cables. The optical fiber cables are more preferable than metal cables.

Key words: *optical fibers, communicate, copper wires.*

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Paper ID: ICCIASH-2021/929

Quantum Computing: A Review

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Abstract:

Quantum computing has shown the efficiency issues that classical computers square measure unable to resolve Quantum computers represent info victimization part states in high dimensional areas. that produces the 2 basic quantum properties of superposition and trap. A quantum laptop may be a machine that performs calculation supported the laws of quantum mechanics, that is that the behavior of particles at sub-atomic level. David Wineland and Serge Haroche were Awarded with the accolade for his or her work relating to measuring and manipulation of individual Quantum Systems in 2012. Interest in quantum computation started growing considerably since 1994 once Peter Shor showed that quantum computers might solve some issues like resolving, quicker than classical computers. This capability is feasible as a result of quantum computers represent information state otherwise than classical computers. This speak can gift a brand new set of modeling tools and ideas that may be used to explore this complicated nonetheless fascinating topic. Quantum computing is essentially process information by exploitation of the laws of quantum physics ancient binary memory bit computation revolves around 0s and 1s, whereas on the opposite hand, quantum computation brings forth the idea of quantum bits (qubits) that is nothing apart from a quantum system having the zero and also the I also differentiated quantum states.

Key words: *Quantum, quantum states, quantum physics.*

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Paper ID: ICCIASH-2021/919

Fractal Robots

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Abstract:

brand new concept in the world of technology is shape shifting robots or Fractal robots. Fractal robots are objects designed using cubic bricks. A computer program is used to operate these robots. The cubic bricks are fitted with a motor. They can be commanded to perform different functions and can be used in a variety of fields. The basis of this technology is the method used to control matter digitally. The cubic bricks are called a Robotic cube. The size of these cubes is between one thousand atoms to ten thousand atoms. All these cubes have a computerized chip, which can be fed in with specific command Areas of our lives, like the field of construction, the medical field, the military field and the research field, can use Fractal robots effectively. These robots can shorten the time needed to build a house, they can be used to conduct risky surgeries , they can test the effect of medicines on contagious diseases and they can also be used to test the new defense technology. All these functions can be done with minimum human intervention. Also these robots can repair themselves and thus can continue the programmed work without stopping.

Key words: *Fractal robots, cubic bricks, atoms.*

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Paper ID: ICCIASH-2021/917

WIRELESS INTELLIGENT NET WORK

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Abstract:

(WIN) is a concept being developed by the Telecommunications Industry Association (TIA) Standards Committee TR45.2. The charter of this committee is to drive intelligent network (IN) capabilities, based on interim standard (IS)-41, into wireless networks. IS-41 is a standard currently being embraced by wireless providers because it facilitates roaming. Basing WIN standards on this protocol enables a graceful evolution to an IN without making current network infrastructure obsolete.

Today's wireless subscribers are much more sophisticated telecommunications users than they were five years ago. No longer satisfied with just completing a clear call, today's subscribers demand innovative ways to use the wireless phone. They want multiple services that allow them to handle or select incoming calls in a variety of ways.

Enhanced services are very important to wireless customers. They have come to expect, for instance, services such as caller ID and voice messaging bundled in the package when they buy and activate a cellular or personal communications service (PCS) phone. Whether prepaid, voice/data messaging, Internet surfing, or location-sensitive billing, enhanced services will become an important differentiator in an already crowded, competitive service-provider market.

Enhanced services will also entice potentially new subscribers to sign up for service and will drive up airtime through increased usage of PCS or cellular services. As the wireless market becomes increasingly competitive, rapid deployment of enhanced services becomes critical to a successful wireless strategy.

Intelligent network (IN) solutions have revolutionized wire line networks. Rapid creation and deployment of services has become the hallmark of a wire line network based on IN concepts. Wireless intelligent network (WIN) will bring those same successful strategies into the wireless networks.

Key words: *IN, WIN, TIA, Internet.*

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Paper ID: ICCIASH-2021/925

SATELLITE RADIO TV SYSTEM

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Abstract:

Satellite systems are ideally suited for television and radio distribution, providing high-quality, high-reliability, low-maintenance, flexible alternatives to terrestrial systems. Unlike terrestrial microwave systems, there are no towers or repeaters to maintain, no radio fades to degrade performance, no extensive troubleshooting to diagnose problems and far less land to lease. Your capital investment for a satellite network is also much lower, especially in areas with difficult terrain. Receive stations can be deployed in a fraction of the time it would take to install a terrestrial system. With the advent of digital modulation and compression techniques, crystal clarity can be achieved with both video and audio, while at the same time minimizing transmission costs and ensuring the privacy of your network. The signals you receive are virtually identical to those generated at the studio. With newer-generation satellites, occupied satellite bandwidths can be as little as 9 MHz for a TV signal and its associated (stereo) audio channels. Stereo radio signals can be multiplexed with the TV signal or transmitted on separate narrowband digital carriers. Only stations designated by your control center will be able to decode your transmissions, thus ensuring privacy

Solid-state transmitter equipment is rapidly becoming the standard for new installations. Although initially more expensive, solid-state equipment enjoys the advantage of reduced maintenance costs for the life of the equipment.

Key words: *Satellite systems, TV, Solid-state transmitter.*

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Paper ID: ICCIASH-2021/936

GPS Tracking System

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Abstract:

Here is a new tracking system available for monitoring the movement of any vechiles or employees without any hassle. The system is called **Global positioning system** or **GPS TRACKING SYSTEM.** This system provides the most required confidance and assurance of supervising. The global positioning system that is now used in the vehicle is basically developed on the principal of satellite technology. GPS or global positioning system provides accurate time and location anytime using the satellite navigation system. This system is used everywhere now including the military services, civil services and also for commercial usages. using these technology several multi national organizations have produced GPS navigation devices to track things accurately .

There are mainly two things that are required to run GPS system. GPS satellite signal transmitter and a GPS receiver. The recevier receive signals with full infornmation and it does not transmit data if it does not get a clear view of the sky . Every GPS satellite transmits location data and of course the time, but to disturb the data instantly you require proper synchronization among all the GPS satellite. The GPS signals are all the radio signals. There are two kinds of radio signals that a GPS transmitter tranmit and they are L1 and L2 . L1 is for civil use and the frequency is 1575.42 MHz .

Key words: *GPS, tracking system, GPS receiver, signals.*

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Paper ID: ICCIASH-2021/945

CURRENT ADVANCEMENT IN HOLOGRAPHY TECHNOLOGY

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Abstract:

The holographic projection is a kind of 3D technology of without wearing any glasses and viewers can see the three -dimensional virtual characters. This seminar examines the new technology of Holographic projections. It highlights the importance and need of this technology and how it represents the new wave in the future of technology and communications, the different application of the technology, the fields of life it will dramatically affect including business, education, telecommunication and healthcare. The paper also discusses the future of Holographic technology and how it will prevail in the coming years highlighting how it will also affect and reshape many other fields of life, technologies and businesses. We can often see the three - dimensional holographic communication technology in science fiction movies, using the principle of three - dimensional computers graphics, and the distant person or thing can been projected in the air in the form of three - dimension.

In recent years, 3D holographic technology has been used in communication, military training, entertainment, virtual augmented reality, and medical training. Even though holographic technology is mainly developed and used outside educational settings, there is certainly educational potential. Holographic technology as a learning tool has the potential to promote a student - centered learning environment, placing students in an interactive environment that allows them to construct knowledge based on their individual learning experiences.

Key words: *Holography, Three-dimension, telecommunication, projection, technology.*

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Paper ID: ICCIASH-2021/949

HOW OUR EARTH WILL END IN THE FUTURE?

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Abstract:

"Even without Light the galaxy itself will not last forever"

4.5 billion years ago Rocks and Dust particles combined and formed our Earth. But How will it end? Our Sun uses Hydrogen and Helium as its fuel to keep burning all the time. After 5 Billion years from now our sun will run out of fuel and then it will start expanding. As a result of Sun's expansion Earth will receive more heat and light. Due to which oceans will evaporate and Extinction of humanity will occur. Life on Earth will die and Earth will become a burning planet After 7 billion years from now , Earth will expand faster and eat our planet and our Solar System. In the end, Sun will collapse and become a white draft.

8 ways the world is most likely to end.

- Nuclear War
- Biological and Chemical warfare
- Catastrophic climate change
- Ecological Collapse
- Pandemics
- Asteroid Impact
- Super Volcanic Eruption
- Solar geo engineering

Key words: *Nuclear War, Earth, Solar System.*

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Paper ID: ICCIASH-2021/964

The Impact of Marine Pollution

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Abstract:

Among all sorts of activities that pollute the ocean, dumping of garbage and other waste materials stands first in the list Dumping involves depositing all the waste materials from factories and industries, tankers and ships and sewerage waste materials into the oceans and seas. The scale and the magnitude of the ocean dumping are not just vast but are so huge. "**Our entire civilisation could be wiped out with the intensity of careless dumping"**. The discharge of ballast water also causes the problem by way ocean waste. Ballast water tends to proliferate and transfer organisms that debilitate the growth of naturally occurring fishes in a particular oceanic area.

Oceans cover about 71% of the Earth's surface. They play an important role in the chemical and biological balance of the life on the earth. They are vital to our food security, commerce and transportation. But human activity has troubled the health of oceans. The habitats of marine mammals and fish have been degraded severely, with pollution responsible for the mass deaths of fish, mammals and corals. Organochloric pollutants, pesticides, polychlorinated biphenyls (PCBs) and a range of other toxic pollutants accumulate within fishes later moving up the food chain to cause reproductive disorders.

Dumping sewage in the ocean has always been considered the cheapest and the easiest way of disposing of wastes. **The billions of tons of litter end up in the ocean each year reportedly bring 250 million tons of trash into the sea every year.** However, reports also suggest that littering makes the aquatic Ife in the oceans and seas worse these days.

This short review summarizes the knowledge of impact on marine pollution and its causes. This pollution results in damage to environment. Our research on marine pollution, shows the impact on marine pollution on types of oceans, types of marine pollutions, solid wastes and in various sources like from land, air, oil etc.. across the worldwide. Therefore, there have been multiple laws, policies and treaties put into place throughout history.

Key words: *Marine ecosystem, habitats, marine debris, eutrophication, planktons, invasive species, ballast water, organochloric pollutants, proliferate and debilitate.*

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NOOTROPICS: SMART DRUGS TO ACHIEVE LIMITLESSNESS

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Abstract:

Whether you're a college student looking to ace your exams, a busy professional striving for a promotion, or an older adult concerned about dementia, the idea of popping a pill that boosts your brainpower might seem pretty enticing. There's even a Hollywood film based on the same concept called Limitless, starring Bradley Cooper. It's about a man who becomes super humanly intelligent after taking a smart pill called NZT-48. Ever since the release of this movie, people have been looking at the chance to get their hands on these smart drugs, if they really exist. So perhaps, it's not surprising that the use of nootropics a.k.a cognitive enhancers or smart drugs are on the rise.

Nootropics are substances which enhance the cognitive function of the brain. They can help you to focus for long durations, stay alert, improve memory learning abilities and sharpen mental processing speed. But do they really work? are they safe? What could be the potential side-effects?

In this article we tried to answer all of these questions using research-based evidence. Theoretical and practical implications of the results are discussed which are taken from numerous studies conducted on subjects of various age groups.

Key words: *cognition, implication, prescriptive drugs.*

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Edge Computing Integrated with Blockchain Technologies: Review

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Abstract:

With the fast increasing of the quantity of devices connected to the web of Things (IoTs), the ancient centralized cloud com - putting system is unable to satisfy the standard of Service (QoS) for several applications, particularly for areas with period of time, reliable Ness and security. the sting computing as AN extension of the cloud computing is intro- diced, that lies in its ability to transfer the sensitive knowledge from cloud to the sting for increasing network security and to understand high frequency interaction and period of time transmission of knowledge. However, that the edge servers maintain sensitive privacy data generates several important security problems for the sting computing network. Moreover, the information created by IoT devices area unit separated into several components and keep in different edges servers that area unit situated in different locations, that is difficult to ensure knowledge integrity thanks to knowledge loss and incorrect knowledge storage in edge servers because of the emergence of blockchain technologies, the varied security issues and knowledge integrity of the edge computing will be self-addressed by integration blockchain technologies. during this paper, we tend to gift a comprehensive summary of edge computing integrated with blockchain technologies. Firstly, the blockchain technologies and therefore the design of the edge computing area unit introduced. Secondly, the motivations and design of the sting computing integrated with blockchain area unit introduced. Thirdly, the connected works concerning the edge computing integrated with blockchain that have been investigated area unit introduced. Finally, the analysis challenges area unit mentioned.

Key words: *Edge computing, Blockchain, web of Things.*

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Open-Source Tools for Different Applications

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Abstract:

Open source refers to a software program or platform with source code that is readily accessible and which can be modified or enhanced by anyone. Open source access grants users of an application permission to fix broken links, enhance the design, or improve the original code.

Open source software (OSS) hubs, such as GitHub, are an example of a kind of open collaboration that can broaden design perspectives far more than a single company or design work group. Open source practices can also lead to considerable savings, with many open source offerings provided to consumers for free, relying instead on a shareware or donation model.

Open source refers to a project, often a software or IT development project, with freely available code and permission to make edits, bug fixes, alterations, and enhancements. Open source software efforts have been behind some of the most popular applications and operating systems available, including the Android OS for smartphones and the Firefox web browser. Open source relies on community engagement, trust, and permissive licensing strategies.

Mozilla Firefox, Linux, WordPress, Bitcoin, and Android are all popular examples of open source projects. By making their source codes available to all, open source products serve as educational tools for technology students who study the codes, learn from them, and opt to create even better codes. Hence, better and more innovative applications are created from the foundation of previous open source applications.

Key words: *Open-source software, Firefox web browser.*

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CRYPTO CURRENCY

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Abstract:

Cryptocurrency, an encrypted, peer-to-peer network for facilitating digital barter, is a technology developed few years ago. Bitcoin, the first and most popular cryptocurrency, is paving the way as a disruptive technology to the long standing and unchanged financial payment systems that have been in place for many decades. While cryptocurrencies are not likely to replace traditional fiat currency, they could change the way Internet-connected global markets interact with each other, clearing away barriers surrounding normative national currencies and exchange rates. Technology advances at a rapid rate, and the success of a given technology is almost solely dictated by the market upon which it seeks to improve. Cryptocurrencies may revolutionize digital trade markets by creating a free flowing trading system without fees. A SWOT analysis of Bitcoin is presented, which illuminates some of the recent events and movements that could influence whether Bitcoin contributes to a shift in economic paradigms.

Key words: *Crypto currency, Bitcoin, Encrypted, currency, Bit pay, Exchange rate.*

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MIND READING COMPUTER

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Abstract:

Drawing inspiration from psychology, computer vision and machine learning, the team in the Computer Laboratory at the University of Cambridge has developed mindreading machines - computers that implement a computational model of mind-reading to infer mental states of people from their facial signals.

The goal is to enhance human-computer interaction through empathic responses, to improve the productivity of the user and to enable applications to initiate interactions with and on behalf of the user, without waiting for explicit input from that user. There are difficult challenges:

Using a digital video camera, the mind-reading computer ppt system analyses a person's facial expressions in real time and infers that person's underlying mental state, such as whether he or she is agreeing or disagreeing, interested or bored, thinking or confused.

Prior knowledge of how particular mental states are expressed in the face is combined with analysis of facial expressions and head gestures occurring in real time. The model represents these at different granularities, starting with face and head movements and building those in time and in space to form a clearer model of what mental state is being represented. Software from Nevenvision identifies 24 feature points on the face and tracks them in real time. Movement, shape and colour are then analysed to identify gestures like a smile or eyebrows being raised. Combinations of these occurring over time indicate mental states. For example, a combination of a head nod, with a smile and eyebrows raised might mean interest. The relationship between observable head and facial displays and the corresponding hidden mental state over time is modelled using Dynamic Bayesian Networks.

Key words: *Dynamic Bayesian Networks, human-computer interaction.*

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Paper ID: ICCIASH-2021/918

The Million dollar question: Why does India, despite having a 1.4 Billion Population, Doesn't show its power at World Sports?

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Abstract:

India is a big deal. It has the world's second-largest population and it is also one of the fastest-growing economies. It is the biggest democracy in existence and one of the oldest nations in history. Yet, it hangs back miles behind in sports. India is one of the worst-performing countries in the Olympics. Out of 1.4 billion people, only 117 members represented in the 2016 Rio Olympics in 15 sports and we managed to win only 2 medals. For the upcoming 2021 Tokyo Olympics, only 100 members are representing India in the same 15 sports. We can see that there is a decrease in participation number and no increase in participating sports. This shows the bad condition of India in the Olympics.

We always compare India with all other countries in all aspects but no one wants to compare or talk about the crisis in Indian sports. Sports are never a priority for a majority of Indian parents and their kids. Most Indians believe that "If you study hard you will be successful but if you play sports you will destroy your life." **Most of the parents prefer Olympiads over Olympics**; if parents show at least 20% of interest in Olympics over Olympiads then India would have been on the next level in sports. **Corruption has become a synonym of Indian sports**. If Politicians show 20% of interest in the Olympics over Corruption everyone can imagine the outcome of it.

This article evaluates why India is Miserable at World Sports, The grassroots problems, Sports development in India, our group is here to not only raise issues we will suggest solutions and reforms be made for **BETTER INDIA**. We want our **TRICOLOUR FLAG TO SOAR HIGH** at world sports.

Key words: *Olympics, population, Corruption.*

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Data Science - Research Challenging Areas - A Review

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Abstract:

To constrain advancement in the meadow of data science, we intend 10 confront areas for the research community to track. Since data science is broad, with methods of drawing from computer science, technology, other disciplines like statistics, and with applications appearing in all sectors including Society. Data Science encircles a set of principles, algorithms, and definitions for problems, different processes for bringing out non perceivable and constructive patterns which are out of possession in large data sets. One can introduce their inventory details with meta-questions about the data science whether data science is a restraint or not. Data science considers all these into account however it also percolates through other challenges like collecting the data, cleaning, and transforming of unstructured web data in social media and the use of big-data technologies to store and process big, unstructured data sets, and questions related to corresponding data, by following ethics and regulations. There are around 10 challenging areas to describe. The objective of this article is to switch on a conversation on what could comprise a basis for a research programme in data science, despite the fact that that the field of data science is still in the budding stage.

Key words: *Data Science, computer science, data.*

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Paper ID: ICCIASH-2021/921

Change in lifestyle after corona

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Abstract:

To say that the novel (COVID-19) pandemic has changed the world would be putting it mildly. The pandemic has changed how we work, learn and communicate as friendly separating rules have prompted a more virtual presence, both actually and expertly. While a large part of the world has halted on occasion during the pandemic, the requirement for medical services has not. Coronavirus has quickly influenced our everyday life, organizations, disturbed world exchange and developments. It has influenced the causes of supply and impacts the worldwide economy. The tale Coronavirus has been perceived as the most damaging pandemic throughout the entire existence of humankind, grasping the whole world in its dread and casualty.

The older the fiddle, the sweeter the TUNE !!

When we should have the option to zero in on keeping ourselves as solid , the world began following old practices and societies to arrive at the sign of hygiene and cleanliness. By and by it is demonstrated that "Old is GOLD" and "Counteraction is superior to CURE".

Effects of Coronavirus :

• Many are battling for their lives.
• Patients with other sickness and medical conditions are getting ignored.
• Requirement for high assurance.
• Scarcity of food.
• Fear of medical services.

Covid has trained us and caused us to see the value in the things we as a whole longed for before the pandemic hit us

It gave us :

• Family Time.
• Less Pollution, clear Blue Skies.
• Importance of old practices and medical services.
• Necessity of Cleanliness And Hygiene.

Key words: *Coronavirus, changes, medical services.*

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Goal Setting in Teams: Goal Clarity and Team Performance in the Public Sector

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Abstract:

With the rise of performance management, work in the public sector has changed. An output focus has become more common. Other changes include decentralization and managing organizations more horizontally. Setting performance goals and working in teams exemplify these developments.

Despite an extensive literature on goal setting, research on goal setting in teams and empirical studies in public organizations have been largely absent. This study contributes to the fields of public management and teamwork by examining whether and under what team conditions clear goals contribute to team performance in the Dutch public sector. Analyses on survey data (n = 105 teams) show that both goal clarity and self-management positively affect team performance. Though the effect of goal clarity on team performance is not affected by teamwork indicated by insignificant moderation effects of self-management and information elaboration. Suggestions are offered for future research to better understand goal setting in public sector teams.

Key words: *Goal, team, performance.*

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A Study on Finger Print Voting System

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Abstract:

Fingerprint Based Voting Project is a application where the user is recognized by his finger pattern. Since the finger pattern of each human being is different, the voter can be easily authenticated. The system allow the voter to vote through his fingerprint. Finger print is used to uniquely identify the user. The fingerprint minutiae features are different for each human being. Finger print is used as a authentication of the voters. Voter can vote the candidate only once and the system will not allow the candidate to vote for the second time. The system will allow admin to add the candidate's name and candidate's photo who is nominated for the election. Admin only has the right to add candidate's name and photo who is nominated. Admin will register the voters name by verifying voter. Admin will authenticate the user by verifying the user's identity proof and then admin will register the voter. The number of candidate added to the system by the admin will be automatically deleted after the completion of the election. Admin has to add the date when the election going to end. Once the user has got the user id and password from the admin, the user can login and vote for the candidate who are nominated. The system will allow the user to vote for only one candidate. The system will allow the user to vote for one time for a particular election. Admin can add any number of candidates when the new election will be announced. Admin can view the election result by using the election id. Even user can view the election result.

Key words: *Fingerprint, voter, voting system.*

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Paper ID: ICCIASH-2021/947

IMPORTANCE OF CLOUD COMPUTING AT PRESENT SCENARIO

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Abstract:

Cloud computing is a way of computing, where most of our data is stored in the cloud, i.e, the Internet. A computing capability that provides an abstraction between the computing resource and its underlying technical architecture (e.g., servers, storage, networks), enabling convenient, on-demand network access to a shared pool of configurable computing resources that can be rapidly provisioned and released with minimal management effort .

The goal of cloud computing is to apply traditional supercomputing, or high- performance computing power, normally used by military and research facilities, to perform tens of trillions of computations per second, in consumer-oriented applications such as financial portfolios, to deliver personalized information, to provide data storage or to power large, immersive computer games. To do this, cloud computing uses networks of large groups of servers typically running low-cost consumer PC technology with specialized connections to spread data-processing chores across them.

Why we choose cloud computing is that, Clients would be able to access their applications and data from anywhere at any time. They could access the cloud computing system using any computer linked to the Internet. It could bring hardware costs down. Cloud computing systems would reduce the need for advanced hardware on the client side. You wouldn't need to buy the fastest computer with the most memory, because the cloud system would take care of those needs for you. Instead, you could buy an inexpensive computer terminal.

Cloud computing systems give these organizations company-wide access to computer applications. The companies don't have to buy a set of software or software licenses for every employee. Instead, the company could pay a fee to a cloud computing company. Servers and digital storage devices take up space. Some companies rent physical space to store servers and databases because they don't have it available onsite. Cloud computing gives these companies the option of storing data on someone else's hardware, removing the need for physical space on the front end. Streamlined hardware would, in theory, have fewer problems than a network of heterogeneous machines and operating systems. Perhaps the biggest concerns about cloud computing are security and privacy.

Key words: *Cloud, cloud computing, cloud infrastructure, DASM, utility, internet.*

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A STUDY ON CYBER SECURITY

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Abstract:

As more business activities are being automated and an increasing number of computers are being used to store sensitive information, the need for secure computer system becomes more apparent. As a consequence, cyber security issues have become national security issues.

As we all know that cybercrime has been one of the common practices made by computer experts, cyber security plays an important role in the field of information technology. Securing the information has become one of the biggest challenges in the present day. Various governments and companies are taking many measures in order to prevent these cybercrimes. Besides various measures, cyber security is still a very big concern to many.

Cybercrimes have become more prevalent and most of the people are becoming victims to these sorts of evils. So, our article provides awareness among the people and helps in preventing the occurrence of such mishaps.

Key words: *Cyber Security, Cybercrime, Cyber ethics and android Apps.*

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SCIENCE BEHIND SUPERSTITIOUS BELIEFS

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Abstract:

"Science is the great antidote to the poison of enthusiasm and superstition"

Science is valued by society because the application of scientific knowledge helps to satisfy many basic human needs and improve living standards. In the first aim we think that the science population has been eminently successful. The plethora of books , articles ,newspapers, magazines and the unprecedented impacts of television has made it possible for today. But even though myriad of people are being convinced by the superstitious beliefs. The body of this is to make scientific ideas accessible to a layperson, and the second is to develop a scientific attitude . We assume that the reader understands what is meant by scientific attitude, so we will not bother by defining it. Superstitions India are two separate words that go hand in hand . From hanging lemons to wearing gemstones ,a country with great traditions and cultures imbued diverse superstitions. India is very different from other countries Today ,India is known for its achievements whether in the field of science, technology and literature. However even though developing, many baseless superstitions still manifest in the day to day lives. Superstitions is commonly applied to beliefs and practices surrounding luck , prophecy, and certainly spiritual beings , particularly the belief that future events can be fore told by the specific unrelated prior events. Superstitions in India and their scientific reason is what we have analysed and contemplated upon here . For example- Bats entering into the house means death ,but the scientific reason behind this is the bats bring a lot of deadly diseases along with them where there was no proper medical facilities in those days. Even the corona virus which is shaking the world ,is born in bats . Most of our elder's say that these all came out through God we should follow these cultures, traditions but the fact is God has only created human beings, human beings only introduced these all. And they say, if we won't believe these ,we may fall into sin. Then now a days human beings are nefarious causing harm to other creatures , people are being swindled in every sector. By using God name they are leading to iniquity. For this kind of activities there won't be any sins. Ergo Science itself is a sweet beginning sometimes a bitter ending where as unprovable beliefs have neither beginning nor end ,it is complete in itself . Every one is educated & erudite, don't believe the erroneous and be inquisitive. "Fear and cruelty is the main source of superstition .To conquer fear is the beginning of Wisdom".

Key words: *superstitions, erudite, inquisitive, unprecedented impacts, iniquity.*

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SIGNIFICANCE OF CRYONICS TECHNIQUES

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Abstract:

Very low temperatures create contiditions that can preserve tissues for centuries possibly including the neurological basis of the human mind. Through a process called vitrification, brain tissue can be cooled to cryogenic temperatures without ice formation. Damage associated with this process is theoretical reversible in the same sense that rejuvenation is theoretically possible by specific foreseeable technology. Injury to the brain due to stoped blood flow is now known to result from a complex series of processes that take much longer to run to completion than the six minutes limit of ordinary resuscitation technology. Reperfusion beyond six minute limit primarily damages blood vessels rather than brain tissue. Apoptosis of neurons takes many hours this creates a window of opportunity between legal death and irretrievable loss of life for human and animal subjects for cryopreservation with possibility of future resuscitation. Under ideal conditions,the time interval between onset of clinical death and beginning of cryonics procedures can be reduced to less than 1 minute, but much longer delays could also be compatible with ultimate survival. Although the avidence that cryonics may work is indirect, the application of indirect avidence is essential in many areas of science. If complex canges due to aging are reversible at some future date, then similarly complex changes due to stoped blood flow and cryopreservation may also be reversible, with life saving results for any one with medical needs that exceed currebt capabilities.

Key words: *Cryonics, cryopreservation, resuscitation, rejuvenation.*

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Paper ID: ICCIASH-2021/927

THE ROLE OF ROBOTICS FOR MILITARY

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Abstract:

The military forces always tried to use new gadgets and weapons for reducing the risk of their casualties and to defeat their enemies. With the development of sophisticated (Advanced) technology, it mostly relies(depends) on the high tech weapons or machinery being used. Robotics is one of the hot fields of modern age in which the nations are concentrating upon for military purposes in the state of war and peace. They have been in use for some time for demining and rescue operations but now they are under research for combat (war for peace) or spy missions. Today's modern military forces are using different kinds of robots for different applications ranging from mine detection, surveillance (an eye on it), logistics (detailed and complex operation) and rescue operations. In order to make robots for the unpredicted cluttered environment of the battlefield, research on different aspects of robots is under investigation in laboratories to be able to do its job autonomously, as efficiently as a human operated machine can do. Latest techniques are being investigated to have advanced and intelligent robots for different operations. This paper presents different kinds of robotic technologies being used in all the three main forces, Navy, Army and Air. Some of the robots discussed are also being used in the wars of Afghanistan and Iraq and also, the robots that are under investigation in laboratories for future military operations. These robots are under investigation for autonomous and cooperative environment. We focus our attention on the uses of robots in war and peace as well as their impact on society.

Key words: *Robotics, Navy, Army and Air.*

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BIO-INSPIRED ROBOTICS: A REVIEW

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Abstract:

Bio-inspired robotics is the new category of the design of bio-inspired which is based on learning from the nature and it applies to the real world engineering system. Bio-mimicry is the act of copying from the nature and the design which is learned from the nature and making the system or mechanisms more effectively efficient and simple is called Bio-inspired. These biological systems are generally multi-functional but are especially design for specific tasks. It is also defined as transfer of natural technologies to other domains such as manufacturing engineering, material science, design etc. In last few decades significant advancement have been made in robotics, artificial intelligence and the other fields allowing to make sophisticate bio-mimetic systems. This interdisciplinary work has resulted in machines that can recognise facial expression, understand speech and locomotion in robust bipedal gacts similar to human. The manufacturing of biologically inspired intelligent robots requires understanding the biological model as well as advancements in analytical modelling, graphic simulation and the physical implementation of the related technology. The main focus is to improve the modelling and simulate the biological system which is based on the biological structure or process by gaining the knowledge from the nature and develop the new idea and technology. This type of engineering does not focus only the design but it also concentrates on the linkage mechanism and the material and it is used in biological characteristic of living organism as the knowledge base for developing the new robot design. Bio-robotics intersects the area of cybermatic, bionics, biology, physiology, and genetic engineering.

Key words: *Bio-inspired, Robots, Bio-mimetic, Bionics.*

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LINEAR REGRESSION

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Abstract:

Linear Regression is a statistical procedure for calculating the value of a dependent variable from an independent variable. Linear regression measures the association between two variables. It is a technique where a dependent variable is predicted based on one or more independent variables. Linear regression analysis is the most widely used of all statistical techniques. This article explains the basic concepts and explains how we can do linear regression calculations in SPSS and Excel. Linear regression is the next step up after correlation. It is used when we want to predict the value of a variable based on the value of another variable. Crypto-currency such as Bitcoin is more popular these days among investors. In the proposed work, it is studied to forecast the Bitcoin price precisely considering different parameters that influence the Bitcoin price. This study first handles, it is identified the price trend on day by day changes in the Bitcoin price while it gives knowledge about Bitcoin price trends. The dataset till current date is taken with open, high, low and close price details of Bitcoin value. Exploiting the dataset machine learning module is introduced for prediction of price values. The aim of this work is to derive the accuracy of Bitcoin prediction using different machine learning algorithm and compare their accuracy. Experiment results are compared for Decision Tree and Regression model.

Key words: *Linear regression, Crypto-currency, Bitcoin, Decision Tree, SPSS.*

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EMERGING TECHNIQUES OF CYBER SECURITY

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Abstract:

Cybercrime, Cyber threats, Cyber-attacks are emerging as a serious threat throughout the world. The term cyber security is used to refer to the security offered through online services to protect our information. Nowadays people around the world are getting connected to internet closely. The need of Cyber Security is it helps in securing data from threats such as data theft or misuse, and also safeguard our system from viruses. Major security problems are Virus Hacker, Malware, Trojan horses, Password cracking. Virus is a program that is loaded onto our computer system without our knowledge and runs against our wishes. Securing password Use always strong password. Solution it is to install a security suite which protects our computer system against threats, as we know such as viruses and worms. It may be impossible to prevent computer hacking ,however effective security controls including strong passwords ,and the use of firewalls can help.

India stands 10th in the cyber-crime in the world. In the last years, we've witnessed a major increase in cyber attacks, situations that forced governments to create space on their agenda for a new topic is Cyber security of their public and private networks. Cyber security is everyone's responsibility. Some benefits of Cyber security Business protection against cyber-attacks, protection of our data and networks, protect the computer from being hacked, it gives privacy to users and many more. and we also have some disadvantages in cyber security like it makes our computer system slower than before, it need to be keep updating the new software in order to keep security up to date. As the world is increasingly interconnected, everyone shares the responsibility of securing cyberspace.

By this article we must understand the consequences of cyber-attacks around our world and the importance of annual assessments and following good cyber guidelines. We have to create our message of influence because security is a culture and need business to take place and be part of that security culture._Safety and security don't just happen they are the result of collective consequences and public investment.

Key words: *Cyber Crime, Cyber-attacks, Cyber threats, Virus Hacker, Trojan horses, Password Cracking.*

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IMPACT OF PANDEMIC COVID-19 ON EDUCATION IN INDIA

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Abstract:

"Education is the most Powerful weapon which you can use to change the World".

The impact of pandemic Covid-19 is observed in every sector. The Education sectors of the India as well as World are Badly affected by this. It has enforced the world wide lock down creating very bad effect on the Student's life. Around 32 crores Learners stopped to move Schools/Colleges, all the educational activities halted in India. Most Governments around the world have temporarily closed educational institutions in an attempt to contain the spread of Covid-19. No doubt, this is the crucial time for education sector because Entrance test of several universities and Competitive examinations are held during this period. Technology may play an important role in the Lock down period like study from home and work from home. In the most of the schools and colleges adopt online teaching methods it has worked as a catalyst for the educational institutions to grow and opt for the platforms with the Technologies, which have not been used before. As per present situation nobody knows when the educational institutions will be reopened. The Education sector has been fighting to survive the crises with a different approach and digitizing the challenges to wash away the threat of the pandemic. These shows both the positive and negative impacts of Covid-19 on Education.

Key words: *Education, Covid-19, Impact, Government of India.*

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DISCOVERING THE WORLD

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Abstract:

It's been more than Four Decades since man has set foot on the Moon. In all this time our understanding of space has only increased. The Sun, the Moon, the Planets, and myriads of Stars and Galaxies have opened up new vistas of the Universe. The past research of the previous decade shows us that Scientists were able to observe for the first time ever evidence of Gravitational waves, the wrinkling of space-time that occurs when objects collide.

In another strange Discovery for the decade, the Hubble Space Telescope spotted which appeared to be 125-mile-high (200 kilometers) geysers of water vapor erupting from the south pole of Jupiter's Moon, Europa.

Scientists also observed the collision of two incredibly dense neutron stars, by detecting both gravitational waves and light created in the collision. These discoveries show us that the curiosity of humanity is just going up in regard to the discovery of the beyond. In this age of climate change, it is important and vital that the exploration of the beyond keep going to greater heights. As we observe the pace of degradation of planet earth due to human action, we must strive for a future among the stars.

Stephen Hawking once said " It surprises me how disinterested we are today about things like physics, space, the universe and the philosophy of our existence, our purpose, our final destination". "**It's a crazy world out there be curious**". The following words of mine will show us why it's important to be curious about the beyond. Ask questions. Find the answers.

In this, we are going to talk about ;

1.Our Solar System 2. Mysteries of Universe 3. Humans going Interstellar 4. Hubble

5. Big Bang & Big Crunch

Key words: *Moon, discovery, decade.*

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A STUDY ON IT SECURITY

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Abstract:

Information Technology security (IT security), Computer Security or Cyber security is the protection of computer systems and networks from information disclosure, theft of or damage to their hardware, software, or electronic data, as well as from the disruption or misdirection of the services they provide.

The field is becoming increasingly significant due to the increased reliance on computer systems, the Internet and wireless network standards such as Bluetooth and Wi-Fi, and due to the growth of "smart" devices, including smartphones, televisions, and the various devices that constitute the "Internet of things". Owing to its complexity, both in terms of politics and technology, cybersecurity is also one of the major challenges in the contemporary world.

Key words: *Information Technology security, Internet of things.*

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CYBER TERRORISM

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Abstract:

Cyber terrorism is the wave of the future for terrorists and extremists. Besides physical attacks such as the bombing of U.S. Embassies and the September 11, 2001 attacks on the World Trade Center, Pentagon in Washington D.C. and Shanksville, PA, terrorists have found a new cause destruction. Connection to the internet has added security risks because anyone can gain access to anything connected to it, unless there are security measures put in place to help prevent a breach. Taking a look at cyber terrorism in more detail gives a better idea of how to lessen the severity of attacks as well as prevent them. It is important to look at the background of cyber terrorism, what some organizations or individuals are doing to protect themselves and others, and what the U.S government is doing to help fight cyber terrorism.

Key words: *Computer crime, Cybercrime, Terrorism, Air navigation, New and emergent threats, Cybercrime Convention.*

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EMERGING OF CRYPTOCURRENCY IN RECENT DAYS

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Abstract:

Cryptocurrencies have emerged as important financial software systems. They rely on a secure distributed ledger data structure; mining is an integral part of such systems. Mining adds records of past transactions to the distributed ledger known as Blockchain, allowing users to reach secure, robust consensus for each transaction. Mining also introduces wealth in the form of new units of currency. Cryptocurrencies lack a central authority to mediate transactions because they were designed as peer-to-peer systems. They rely on miners to validate transactions. Cryptocurrencies require strong, secure mining algorithms. In this paper we survey and compare and contrast current mining techniques as used by major Cryptocurrencies. We evaluate the strengths, weaknesses, and possible threats to each mining strategy. Overall, a perspective on how Cryptocurrencies mine, where they have comparable performance and assurance, and where they have unique threats and strengths are outlined.

Key words: *Crypto, peer-to-peer, Blockchain, Data structure, algorithms.*

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IMPORTANCE OF FARMING: AN OVERVIEW

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Abstract:

Agriculture is an important part of India's economy and at present it is among the top two farm producers in the world. This sector provides approximately 52 percent of the total number of jobs available in India and contributes around 18.1 percent to the GDP. Agriculture is the only means of living for almost two-thirds of the employed class in India. As being stated by the economic data of financial year 2006-07, agriculture has acquired 18 percent of India's GDP. The agriculture sector of India has occupied almost 43percent of India's geographical area. Agriculture plays vital role in India economy. Over 70 percent of the rural households depend on agriculture. Agriculture is an important sector of Indian economy as it contribute about 17% to the total GDP and provides employment to over 60% of the population. Farmers are simply called as the 'Backbone of India'. They are the most useful people as they provide food. They never stop their work even furing heavy rains and sunny days. Farmers work hard the whole day. People from all the religions like Hindu, Christian, Islam and Sikh live in India and are engaged in various occupations, but agriculture is the main occupation. Indian Farmer has the ability to survive with the various seasons, climate change, soil conditions and often harsh destruction of wildfires, droughts and floods.

Key words: *furing, droughts, Backbone of India, wildfires*

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Paper ID: ICCIASH-2021/904

Brain PC Interface: A Review

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Abstract:

A brain pc interface (BCI) could be a hardware and package communication system that allows cerebral activity alone to manage computers or external devices. The immediate goal of BCI analysis is to offer communications capabilities to severely disabled those who square measure whole paralytic or locked-in by neurologic fasciculus disorders like amyotrophic lateral induration, brain stem stroke, or neural structure injury. Here, we review the progressive of BCIs watching totally different steps that type a commonplace BCI: signal acquisition, preprocessing or signal sweetening, feature extraction, classification and therefore the management interface. We discuss their merits, drawbacks &latest advances & survey the various technologies according within the scientific literature to style every step of a BCI.

Key words: *Brain PC Interface, brain stem stroke, technology.*

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Social Engineering: Hacking into Humans

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Abstract:

In the world of digitalization, need for data privacy and data security is quite important. IT companies today prefer their data over everything. Not only for companies but also the data privacy is important for any individual. But no matter how secure is the company, how advanced is the technology used or how much up to date their software is, there's still a chance of being attacked over the data. The art of gathering sensitive information from a human being is known as Social Engineering.

In social engineering attacks, a fraudster works to gain the confidence of a victim and manipulate them to hand over or enter personal, confidential information that can then be used to commit fraud online. 'Kevin Mitnik' is the most renowned social engineer of all time. In this paper, we are going to discuss Social Engineering, its types, how it affects us and how to prevent these attacks. Also, many of concepts are also presented in this paper.

Key words: *Digitalisation, data privacy, sensitive information, victim, social engineering.*

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Paper ID: ICCIASH-2021/928

Unemployment – Causes, Issues in India and its impact

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Abstract:

This research aims to show the causes, effects, direct and indirect issues of unemployment on people. Three basic needs of human being are – food, home and clothing. And all these needs can be fulfilled properly only if a person has money. And to earn money one must be employed, that is he or she must have a paid occupation. An unemployed person is open to doing socially unacceptable work in order to get money.

As Charlie Chaplin said, **"There is no glory in poverty. Let's not pride ourselves for being compromising. Let us remain hungry for better life. Let's get employed."**

Also the pandemic - Covid19 has added many people into this category leaving many people unemployed and also affecting their lives.

Key words: *unemployment, financial management, economy, salary/wages, government, employment.*

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DISCOVERY OF WEATHER IN SPACE

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Abstract:

Everyone is familiar with changes in the weather on Earth. But "weather" also occurs in space. Much like terrestrial weather, space weather results from a complex system driven both by the Sun and events much closer to Earth. Though space is about a thousand times emptier than even the best laboratory vacuums on Earth, it's not completely devoid of matter – the Sun's constant outflow of solar wind fills space with a thin and tenuous wash of particles, fields and plasma. This solar wind, along with other solar events like giant explosions called coronal mass ejections, influences the very nature of space and can interact with the magnetic systems of Earth and other worlds. Such effects also change the radiation environment through which our spacecraft – and, one day, our astronauts headed to Mars – travel. Space weather effects on ground can include damage and disruption to power distribution networks, increased pipeline corrosion and degradation of radio communications.

SWPC forecasters use ground-based instruments and satellites to monitor the active regions of the Sun for any changes and issue watches, warnings, and alerts for hazardous space weather events. Space weather is monitored at ground level by observing changes in the Earth's magnetic field over periods of seconds to days, by observing the surface of the Sun and by observing radio noise created in the Sun's atmosphere. Studying space weather is important to our national economy because solar storms can affect the advanced technology we have become so dependent upon in our everyday lives.

To support space weather research, NASA observes the Sun and our space environment 24-seven with a fleet of solar observatories studying everything from the dynamics of the Sun, to the solar atmosphere, to the particles and magnetic fields in the space surrounding our home planet.

Key words: *Space, earth, weather, surface.*

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AUTONOMOUS VEHICLES

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Abstract:

Autonomous driving expected to revolutionize road traffic, attenuating current externalities, especially accidents and congestion. Carmakers, researchers, and administrations have been working on autonomous driving for years, and significant progress is going on. However, the doubts and challenges to overcome are still huge, as the implementation of an autonomous driving environment encompasses complex automotive technology and human behaviour, ethics, traffic management strategies, policies, liability, etc. From the technical perspective, the unequivocal detection of obstacles at high speeds and long distances is one of the most significant difficulties to face. Regarding traffic management strategies, all approaches share the vision that vehicles should behave cooperatively. General V2V cooperation and platooning are options being discussed, both with multiple variants. Besides, legal issues have already arisen in the context of highly automated driving. They range from the need for special driving licenses to much more complex topics like liability in the event of an accident or privacy issues. All these legal and ethical concerns could hinder the spread of autonomous vehicles once technologically feasible. This paper provides an overview of the current state of the art in the critical aspects of autonomous driving.

Key words: *Autonomous vehicles, autonomous driving.*

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Smart Solution for Women Security Using Raspberry PI

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Abstract:

Rapid growth of technology rather than providing more security is creating more number of violences and abuses for girls irrespective of their age in the society today. Many laws, punishments and number of things are not able to give a single peaceful day to the women in this busy competitive world. All are born with ambitions dreams and goals to be achieved but lack of opportunities are stopping them to do so and the world is missing out on many opportunities to give a bright future as parallel to the rapid growth of technology.

Presently, the women are dealing with numerous issues related to their security. The application which is proposed approaches track area and will send messages to the close by police headquarters and the examined telephone numbers. This application isn't just utilized for cases like assaults and any deviants prodding young women but also helps them from any awful condition or any medical issue like swooning abruptly. GPS is to follow the area of the person in question and to send messages, the area of the casualty to the close by police headquarters and the telephone quantities of the family members of the person in question. This application assists women in beating their fear of going out and doing things they like to do.

Key words: *Growth, technology, women security.*

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Paper ID: ICCIASH-2021/931

A REVIEW ON SMART MIRROR

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Abstract:

The paper describes the design, construction and working of the smart mirror. Every morning our day begins by watching ourselves at least once in mirror before leaving our homes. We interact with it psychologically to find out how we look and how our attire is. Smart mirror or magic mirror is one of the applications of Raspberry Pi, a computer screen embedded in mirror looks very futuristic. The Raspberry Pi stays at back scenes and controls the data displayed on mirror. While looking at mirror you can look at various notifications from social sites as well news, weather forecast and many more things. Such mirrors can be programmed to work as AI and control home appliances by voice input or touch screen. The Raspberry Pi is connected to monitor via HDMI additionally, it also has inbuilt Wi-Fi and Bluetooth interfaces so we can just swipe music and videos to mirror.

Key words: *Smart mirror, Magic mirror, Home Automation, Artificial Intelligence, Virtual Dressing, Raspberry Pi.*

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A new uprising field in the internet marketing world Social Media Marketing

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Abstract:

The role of social media marketing in e-commerce is significant. The purpose of this study is to determine the effectiveness of social media marketing in generating revenue and economic development.

SMM stands for Social Media Marketing which is a form of internet marketing that makes use of social media sites to market the business or brand products. This is a marketing activity on social networks, from content creation to advertisement.

The goal of SMM is to attract customer's attention through social networks. It is a very cost-effective method to propagate your business products in the market globally.

SMM provides you enough space to discover the right opportunities for your business and finally utilize them to build your business.

SMM helps you in increasing your business brand visibility. Social media being the hub of a global audience empowers you by enhancing your brand's visibility. SMM lets you earn a good amount of profit in your online business. With the help of SMM, you can get favourable results in your online business.

It provides you the required fuel to achieve results which your endeavour and business deserve.

Key words: *Economic development, business, marketing, social networks, brand visibility.*

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A REVIEW ON BUBBLE POWER

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Abstract:

In sonofusion a piezoelectric crystal attached to liquid filled Pyrex flask send pressure waves through the fluid, exciting the motion of tiny gas bubbles. The bubbles periodically grow and collapse, producing visible flashes of light. The researchers studying these light emitting bubbles speculated that their interiors might reach such high temperature and pressure they could trigger fusion reaction. Tiny bubbles imploded by sound waves can make hydrogen nuclei fuse- and may one day become a revolutionary new energy source. When a gas bubble in a liquid is excited by ultrasonic acoustic waves it can emit short flashes of light suggestive of extreme temperatures inside the bubble. These flashes of light known as sonoluminescence, occur as the bubble implode or cavitates. It is show that chemical reactions occur during cavitations of a single, isolated bubble and yield photons, radicals and ions. That is gas bubbles in a liquid can convert sound energy in to light. Sonoluminescence also called single-bubble sonoluminescence involves a single gas bubble that is trapped inside the flask by a pressure field. For these loud speakers are used to create pressure waves and for bubbles naturally occurring gas bubbles are used. These bubbles cannot withstand the excitation pressures higher than about 170 kilopascals. Pressures higher than about 170 kilopascals would always dislodge the bubble from its stable position and disperse it in the liquid. A pressure at least ten times of initial pressure is required to implode bubbles is necessary to trigger thermonuclear fusion. The idea of sonofusion overcomes these limitations.

Key words: *Sonoluminescence, Sonofusion, Piezoelectric crystal, Ultrasonic waves, Pressure.*

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SMART HOME AUTOMATION

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Abstract:

Home automation has for long been the exclusive domain of the ultra-rich. But we are at a stage where anyone can afford to have automated homes, customised according to their needs and budgets. The concept of automated homes has evolved from pressing buttons to open a door or to bring out an owen, now it is more about securing your house and being able to remotely observe and control the space. As an add-on, automated homes tend to be much more energy efficient that conventional homes. Home automation is a step toward what is referred to as the "Internet of Things," in which everything has an assigned IP address, and can be monitored and accessed remotely. Automation is, unsurprisingly, one of the two main characteristics of home automation. Automation refers to the ability to program and schedule events for the devices on the network. The programming may include time-related commands, such as having your lights turn on or off at specific times each day. It can also include non-scheduled events, such as turning on all the lights in your home when your security system alarm is triggered. The other main characteristic of

cutting-edge home automation is remote monitoring and access. While a limited amount of one-way remote monitoring has been possible for some time, it's only since the rise in smartphones and tablets that we've had the ability to truly connect to our home networks while we're away.

Key words: *Automation, exclusive domain, security system, alarm, gas leakage.*

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YOUNG INDIA: ROLE OF YOUNGSTERS IN NATION BUILDING

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Abstract:

As the fastest growing economy today, India is home to a fifths of the worlds youth. Half of it's population of 1.3 billion is below the age of 25 and a quarter is below the age of 14. India's young population is it's most valuable asset. It provides India with a unique demographic advantage. The youth play a vital role in the constructive process of building social cohesion, economic property and political stability in a nation in an inclusive and democratic way. Youth in a country build a positive and efficient atmosphere that promotes the country's economic and social growth.

Key words: *Demographic advantage, economic property, countries economy, social growth, social cohesion.*

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Face Recognition Using Neural Network

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Abstract:

A neural network is a powerful data modeling tool that is able to capture and represent complex input/output relationships. In the broader sense, a neural network is a collection of mathematical models that emulate some of the observed properties of biological nervous systems and draw on the analogies of adaptive biological learning.

It is composed of a large number of highly interconnected processing elements that are analogous to neurons and are tied together with weighted connections that are analogous to synapses.

To be more clear, let us study the model of a neural network with the help of figure.1. The most common neural network model is the multilayer perceptron (MLP). It is composed of hierarchical layers of neurons arranged so that information flows from the input layer to the output layer of the network. The goal of this type of network is to create a model that correctly maps the input to the output using historical data so that the model can then be used to produce the output when the desired output is unknown.

Neural network is a sequence of neuron layers. A neuron is a building block of a neural net. It is very loosely based on the brain's nerve cell. Neurons will receive inputs via weighted links from other neurons. This inputs will be processed according to the neurons activation function. Signals are then passed on to other neurons.

In a more practical way, neural networks are made up of interconnected processing elements called units which are equivalent to the brains counterpart, the neurons. Neural network can be considered as an artificial system that could perform "intelligent" tasks similar to those performed by the human brain.

Key words: *Face recognition, neural networks, face detection, principal component analysis, data mining, image recognition.*

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Anti-Matter a theory of modern Physics

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Abstract:

The matter-antimatter asymmetry in the Universe is one of the most evasive and fascinating enigmas in physics. Antimatter, a mirror image of matter, is an idea so revolutionary that even its discoverer initially feared its consequences. In particle physics, antimatter extends the concept of the antiparticle to matter. If a particle and its antiparticle come into contact with each other, the two annihilate – they may be converted into other particles with equal energy in accordance with Einstein's equation $E = mc^2$. This gives rise to high-energy photons (Gamma rays) or other particle-antiparticle pairs. In this article, the existence of antimatter in the Universe is briefly discussed. Many different mechanisms can contribute to antiprotons and positrons production, ranging from conventional reactions such as $p + p \rightarrow p + +$ anything up to exotic processes such as neutralino annihilation.

Key words: *Antimatter, Einstein's equation, positrons, antiprotons, neutralino annihilation.*

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Paper ID: ICCIASH-2021/992

Self-driving and driver relaxing vehicle

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Abstract:

In the modern era, the vehicles are focused to be automated to give human driver relaxed driving. In the field of automobile various aspects have been considered which makes a vehicle automated. Google, the biggest network has started working on the self-driving cars since 2010 and still developing new changes to give a whole new level to the automated vehicles. In this paper we have focused on two applications of an automated car, one in which two vehicles have same destination and one knows the route, where other doesn't. The following vehicle will follow the target (i.e. Front) vehicle automatically. The other application is automated driving during the heavy traffic jam, hence relaxing driver from continuously pushing brake, accelerator and clutch. The idea described in this paper has been taken from the Google car, defining the one aspect here under consideration is making the destination dynamic. This can be done by a vehicle automatically following the destination of another vehicle. Since taking intelligent decisions in the traffic is also an issue for the automated vehicle so this aspect has been also under consideration in this paper.

Key words: *Automatic vehicle, Driver relaxed driving, API using GPRS module, Arduino, GSM- Global System for Mobile Communications*

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Paper ID: ICCIASH-2021/937

COMPLEX SYSTEMS

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Abstract:

Complex systems and the complexity science is developed for helping us to develop and evolve and nurture this relationship. It will help us to adapt ourselves to the environment better than before and push the world- including ourselves to the next stages of the transcendence. Complex systems research is becoming ever more important in both the natural and social sciences. It is commonly implied that there is such a thing as a complex system across the disciplines. However, there is no concise definition of a complex system, let alone a definition that all disciplines agree on. We review various attempts to characterize a complex system, and consider a core set of features that are widely associated with complex systems by scientists in the field. We argue that some of these features are neither necessary nor sufficient for complexity, and that some of them are too vague or confused to be of any analytical use. In order to bring mathematical rigour to the issue we then review some standard measures of complexity from the scientific literature, and offer a taxonomy for them, before arguing that the one that best captures the qualitative notion of complexity is that of the statistical complexity. Finally, we offer our own list of necessary conditions as a characterization of complexity. These conditions are qualitative and may not be jointly sufficient for complexity. We close with some suggestions for future work.

Key words: *Complexity, statistical complexity, information, complex system.*

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Paper ID: ICCIASH-2021/941

BARRIER BETWEEN ABILITY AND DISABILITY

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Abstract:

Barrier between ability and disability, can be considered as one the major barrier of our communism. We have around 1 billion of people with disabilities all-over the world, where as 100 million people are of India. We all know that disability means, a physical or mental condition of person that limits movements, senses and activities. Where as these people are treated separately with some special needs. Recently US govt bought a right towards people with disabilities that The ADA prohibits on the basis of disability in employment, state and local government, public accommodations, commercial facilities, transportation, and telecommunications. Like wise all other countries should implement special rights for disable people and should encourage their them.

Here we also mentioned a special word BARRIER, so what it is…? Here it literally meaned a difference between both kind of people. And people with disabilities face lot problems like getting teased or discriminated by others and not getting special services…etc what are the reasons for it ….

*Lack of accommodations *Lack of inclusion

*Unemployment *Poverty

*People who are able at all but disable at mindset….etc etc

IN THE PRESENCE of these all barriers also, we can see very talented people like nick Vujicic, Sudha Chandran, Stephen hawking…etc. but why not everyone so we shall discuss how we can make disable people successful….

Key words: *poverty, discrimination, accommodations, motivation, inclusion.*

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Paper ID: ICCIASH-2021/943

STRATEGIES OF FINDING MYTH AND FACTS

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Abstract:

Erroneous beliefs are difficult to correct. Worse, popular correction strategies, such as the myth-versus-fact article format, may backfire because they subtly reinforce the myths through repetition and further increase the spread and acceptance of misinformation. Here we identify five key criteria people employ as they evaluate the truth of a statement: They assess general acceptance by others, gauge the amount of supporting evidence, determine its compatibility with their beliefs, assess the general coherence of the statement, and judge the credibility of the source of the information. In assessing these five criteria, people can actively seek additional information (an effortful analytic strategy) or attend to the subjective experience of easy mental processing—what psychologists call fluent processing—and simply draw conclusions on the basis of what feels right (a less effortful intuitive strategy). Throughout this truth-evaluation effort, fluent processing can facilitate acceptance of the statement: When thoughts flow smoothly, people nod along. Unfortunately, many correction strategies inadvertently make the false information more easily acceptable by, for example, repeating it or illustrating it with anecdotes and pictures. This, ironically, increases the likelihood that the false information the communicator wanted to debunk will be believed later. A more promising correction strategy is to focus on making the true information as easy to process as possible. We review recent research and offer recommendations for more effective presentation and correction strategies.

Key words: *Erroneous, Beliefs, Backfire, Compatibility, Inadvertently.*

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Paper ID: ICCIASH-2021/973

COMPUTER VISION-VISUAL PROCESSING

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Abstract:

The present paper mainly deals with the topic of Visual Processing which comes under Computer Vision. Visual Processing pertains to the ability to perceive, analyze, synthesize, and think with visual patterns and involves the ability to store and recall visual representations via visual imagery and visual memory. Visual Processing (Computer Vision) is an area that mainly deals with Artificial Intelligence and Machine Learning. In the present paper, we mainly deal with Image Classification, Object Detection, Image Analysis, Face detection recognition, and Optical Character Recognition (OCR). Image classification mainly involves training a MI model to classify images, whereas object detection MI models are trained to identify the object and its location. Image analysis helps to analyse the image and extract information from it to use in tags, catalog, etc, and Face detection analysis analyses the image and recognizes the person based on their facial features. OCR is a technique to detect and read the text in images.

Key words: *Visual processing, Machine Learning, Object Detection, Image Analysis, Face Detection analysis, OCR.*

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Paper ID: ICCIASH-2021/961

Role of Greenfield Project on Growth and Prosperity

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Abstract:

Greenfield projects are the present requirement of the economy and are Sustainable in the long run. Thus the project commissioned with present requirements commissioned not only feasible for the economy but also brings growth and prosperity in the economy of a country. An increment to manufacturing production creates more economic activity both within and outside the section than does a similar increment in any other major sector because of manufacturing high multiplier effect and its extensive linkages to other parts of economy. Incremental growth in the Sector is likely to increase R&D activity which leads to increase the intensity of innovation in manufacturing, boosts overall Productivity growth and improve -of-living.

Rourkela Steel plant is the perfect example in the management of Greenfield project for prosperity and growth. Greenfield in many disciplines is a project that is lacking the constraints imposed by previous work. This project can be undertaken in a cellular network, computer networking or Greenfield investment opportunity in a marketplace that is completely untapped. The purpose of Our study is to find the problems faced by the steel industry, the steps taken for by Greenfield project and the contribution it has made to Orrisa by its growth and prosperity. In software development, a greenfield project could be one of developing a system for a totally new environment, without concern for integrating with other systems, especially not legacy systems. Such projects are deemed higher risk, as they are often for new infrastructure, new customers, and even new owners.

Key words: *Greenfield Project, Growth and Prosperity, Rourkela steel plant and cellular network.*

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Paper ID: ICCIASH-2021/989

DISTRIBUTED DENIAL OF SERVICE ON THE INTERNET

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Abstract:

Distributed Denial of service is costing the economy worldwide billions of dollars. The economy is the corner stone of our society and its collapse will certainly change the way in which humanity exists today. The three main goals of computer security are availability, confidentiality and integrity. The focus of this paper is on attacks that compromise the availability of systems. The internet service plays a vital role in everyday lives and also for the Information technology industry. It has become a basic necessity and hence is one of the best innovations of 20th century. With its major advantages, it also attracts the various types of attacks. DDOS is one of the serious threats to the structure and foundation of Internet and also its userbase. DDOS does not affect major part of security associated with internet but it hugely affects the economy. The DDOS prevents further attacks. We are implementing this process and so protecting the internet and userbase from further threats. This paper is a summary of literature study, with regards to the causes and effects of these attacks, as well as potential solutions to the problem.

Key words: *Distributed Denial of Service, Security, Availability, Integrity, Confidentially, Implementing.*

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SMART CITY

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Abstract:

"A City that thrives on SERENITY is smarter than a city that thrives on Technology"

The change is easily digested by broad minded. The feeling of unity makes us binded. We should begin our step by making city very fair. Definitely smart cities are many but consciousness is very rare. Being a student, it's our duty to build the feeling of smart city everywhere. Smart city not only defines big buildings and constructions but it is a city where students can celebrate their talents as profession. Most of the world's population today lives in cities. By 2030, the population of the cities around the world is expected to grow from 3.3 billion to 5 billion people. In Israel, about 6 million people live in urban areas. The main categories that define smart cities include the quality of the environment, energy, water and wastewater, transportation and traffic, information and communication systems, quality of life, government, economics, human resources, housing and land use, homeland security, and emergency preparedness. The degree of preparedness of the city for the collapse of the municipal systems, whether as a result of state security or natural disasters, should also be taken into account. There are many advantages in promoting smart cities in terms of national benefits: creating competitiveness, promoting the business sector, improvement of living standards, proper utilization of resources, and the like. There are examples of smart cities in the world, and a lot can be learned from their experience and achievements. Israel has unique conditions, which includes an educated populace, widespread use of information systems, and the fact that cities are not very large. It is important to learn from the experience of smart cities that has been accumulated worldwide. The work of David Boyd, who ranked a number of cities according to measures of innovation and sustainability, was presented to the Forum as an example.

It is important to examine the reference to the terminology of smart cities.

"When city is smart, people will become smart with heart very kind. While travelling, relish ambience, should let us know, it's our city!"

Key words: *Broad-minded, Collapse, Homeland-security, Preparedness,Widespread, Terminology, Relish, Ambience.*

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Paper ID: ICCIASH-2021/9C9

A STUDY ON NANOTECHNOLOGY

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Abstract:

Nanotechnology is science, engineering, and technology conducted at the nanoscale, which is about 1 to 100 nanometers. Nanotechnology is helping to considerably improve, even revolutionize, many technology and industry sectors: information technology, energy, environmental science, medicine, homeland security, food safety, and transportation. The father of Nanotechnology is the famous physicist Richard Feynman. Nanotechnology modifies the molecular structure of materials to create smart objects. Nanotechnology and its microscopic universe offer gigantic possibilities for contemporary science. How the nanomaterials are classified is explained. Nanotechnology also excels in the filed of harvesting energy in the form of piezoelectric materials capable of converting pressure into electrical energy ,and how it is helpful in the field of medicine and surgery using nanotubes, dentrimes, nanocrystales, nanowires etc, are given.

This paper mainly discusses Nanotechnology and its various applications to improve our life styles and applications in wide range

Key words: *Nanotechnology, revolutionize, physicist, contemporary, piezoelectric.*

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Paper ID: ICCIASH-2021/905

A Review on Dynamic Memory Allocation

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Abstract:

Memory management is a crucial part of fashionable automatic data processing system. Dynamic Memory Allocation plays an important role in Memory Management and becomes elementary part of today's automatic data processing system. it's classical downside in applied science by paying some complexness. it's minimizing the price of memory by providing economical use of it and it's art of handling computer hardware powerfully. Memory Management is often common in every of the foremost essential elements of software system, particularly the most memory. during this paper, we'll describe the role of Dynamic Memory Allocation in Memory Management, comparison with static memory allocation, and problems with exploitation DMA.

In C++, it will be terribly convenient to portion and deallocate blocks of memory as and that we would like. This can be definitely customary to follow in each languages. However, the handling of such dynamic memory will be problematic and inefficient. These difficulties will be neglected the problems isn't Associate in Nursing choice.

Dynamic Memory Allocation tends to be nondeterministic; the time taken to portion memory might not be foreseeable and therefore the memory pool might become fragmented, leading to surprising allocation failures. during this session the issues are printed intimately Associate in Nursing an approach to settle dynamic memory allocation.

Key words: *Dynamic Memory Allocation, data processing, memory.*

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Paper ID: ICCIASH-2021/960

Define you the way you want in media

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Abstract:

The advent of internet based social media technologies has enabled travellers to quickly and conveniently share their travel experiences. Shared information on social media sites is recognized.

As social media is increasingly adopted in health related discourse, we examine how these new platforms might be allowing honest and candid.

Bright side of social media:

In (Covid-19) pandemic has changed the world , lot of people were suffered by this situation, the advent of social media technologies, they shared their problems , by this so people came to help the poor people , some people share their situation in social network(Eg: FB, Twitter. Etc) for the help.

Dark side of social media:

The online terrorism, the current study examines the associations of the dark side of social media use and fake news sharing behaviour among social media users.

The social media in private life as well as workplaces calls for increased awareness and understanding of its risks and adverse consequences for individuals, organisations and societies. Psychological, managerial, and societal perspectives examines how social media can negatively effect our lives.

Key words: *Social network, Social media apps, Social media marketing, Social media sites, Social networking apps, Social networking sites, Social media manager.*

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SOFTWARE BUGS

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Abstract:

Software bug is an error, flaw or fault in a computer program or system that causes it to produce an incorrect or unexpected result or to behave in unintended ways. The process of finding and fixing bugs is termed "debugging" and often uses formal techniques or tools to pinpoint bugs and since the 1950s, some computer systems have been designed to also deter, detect or auto-correct various computer bugs during operations.

Most bugs arise from mistakes and errors made in either a program's design or its source code or in components and operating systems used by such programs. A few are caused by compilers producing incorrect code. A program that contains many bugs and/or bugs that seriously interfere with its functionality is said to be *buggy* (defective). Bugs can trigger errors that may have ripple effects. Bugs may have subtle effects or cause the program to crash or freeze the computer.

☐ **Types of bugs**

- Arithmetic Edit
- Logic Edit
- Syntax Edit
- Resource Edit
- Multi-threading Edit
- Interfacing Edit
- Teamworking Edit

Key words: *Debugging, Pinpoint bugs, Errors, Compilers, Buggy, Ripple effects, Subtle effects.*

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Paper ID: ICCIASH-2021/991

GREEN TECHNOLOGY

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Abstract:

Green technology (greentech) or clean technology (cleantech) is the application of one or more of environmental science, green chemistry, environmental monitoring and electronic devices to monitor, model and conserve the natural environment and resources, and to curb the negative impacts of human involvement. The term is also used to describe sustainable energy generations technologies such as photovoltaics, wind turbines, bio reactors, etc. The term "technology" refers to the application of knowledge for practical purposes. The field of "green technology" encompasses a continuously evolving group of methods and materials, from techniques for generating energy to non-toxic cleaning products. The present expectation is that field will bring innovation and changes in daily life of similar magnitude to the "information technology" explosion over the last two decades.

The emerging clean-energy economy can solve sets of problems. It has the potential to drive innovation to stimulate a sustainable economic recovery that changes the environmentally harmful "business as usual" practices of the past. 'Where other people might see problems and crises, innovative green business leaders see opportunity'. A wave of companies both large and small is using success in business to achieve social and environmental change. These emerging business models seek to preserve environmental quality, promote social equity, and stimulate sustainable economic growth. As someone thinking of starting a small business, starting a green business has two advantages over starting any other kind of business. First, environmentalism is still growing so you will be starting a business targeting a growing market. Second, starting a green business can be particularly satisfying as you get to make your own contribution to making the world a better place.

Businesses in the emerging green economy are as diverse as the people who start them. This paper focuses on only a handful of the countless opportunities in the marketplace. New entrepreneurs are not wasting any time crafting a future that looks a lot brighter-one where a small businesses provide products, services, training programs, and living wage jobs that preserve the environment and lift people out of poverty.

Key words: *cleantech, sustainable, photovoltaics, innovative, environmentalism, entrepreneurs.*

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Paper ID: ICCIASH-2021/9D4

Automotive Self-Driving Car with Auto Transmission Technology

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Abstract:

What is Automotive Self-Driving Car?

Self-driving cars have received a lot of attention in recent years and many stakeholders like Google, Uber, Tesla, and so forth have invested a lot in this area and developed their own autonomous driving car platforms. The challenge to make an autonomous car is not only the stringent performance but also the safety of the passengers and pedestrians. Even with the development of technologies, autonomous driving is still an active research area and still requires a lot of experimentations and making architecture entirely autonomous.

The intriguing area of self-driving car motivates us to build an autonomous driving platform.

Overview of the Project:

An autonomous car is a vehicle capable of sensing its environment and operating without human involvement. A human passenger is not required to take control of the vehicle at any time, nor is a human passenger required to be present in the vehicle at all. An autonomous car can go anywhere a traditional car goes and do everything that an experienced human driver does.

Key words: *Automotive Self-Driving Car, driving platform, human driver.*

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Paper ID: ICCIASH-2021/994

HOW WILL MODERN TECHNOLOGY CHANGE THE WAY OF TEACHING IN THE FUTURE

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Abstract:

Technology is the mother of civilizations of arts and sciences. Technology has certainly changed the way we live. Undoubtedly, technology plays an important role in every sphere of life. Several manual tasks can be automated, thanks to technology. Also, many complex and critical processes can be carried out with ease and greater efficiency with help of modern technology. Thanks to the application of technology, living has change and it has changed for better. Technology has revolutionized the field of education. The importance of technology in school cannot be ignored. In fact, with the onset of computers in education; it has become easier for teachers to impart knowledge for students to acquire it. The use of technology has made the process of teaching and learning all more enjoyable.

Key words: *Education, Modern technology, Teaching, Importance of technology in education, Technology integration.*

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Paper ID: ICCIASH-2021/9F5

The Emergence of Internet of Things (IoT): Connecting Anything, Anywhere

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Abstract:

Internet of Things (IoT) plays the role of an expert's technical tool by empowering physical resources into smart entities through existing network infrastructures. Its prime focus is to provide smart and seamless services at the user end without any interruption. The IoT paradigm is aimed at formulating a complex information system with the combination of sensor data acquisition, efficient data exchange through networking, machine learning, artificial intelligence, big data and clouds. Conversely, collecting information and maintaining the confidentiality of an independent entity, and then running together with privacy and security provision in IoT is the main concerning issue. Thus, new challenges of using and advancing existing technologies, such as new applications and using policies, cloud computing, smart vehicular system, protective protocols, analytics tools for IoT-generated data, communication protocols, etc., deserve further investigation. This Special Issue reviews the latest contributions of IoT application frameworks and the advancement of their supporting technology. It is extremely imperative for academic and industrial stakeholders to propagate solutions that can leverage the opportunities and minimize the challenges in terms of using this state-of-the-art technological development.

Key words: *IoT; smart environment; security and surveillance.*

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AUTOMATIC CELL PHONE DETECTOR WITH GPS TRACKING

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Abstract:

It has been some decades since human beings start using mobile phones. They has been minimizing and modernizing our costs and communication styles.

They are primarily designed for voice communications. In addition to the standard voice function, new generation mobile phones support many additional services and accessories such as SMS for text messaging, email, packet switching for access to the internet, gaming, Bluetooth, camera with video recorder and mms for sending and receiving photos and video, mp3 player, Radio and GPS. As long as the mobile network is there our mobile phone wouldn't stop communicating with The nearest cell (network station or tower) but when we receive a call, try to call for someone or connect to The internet our mobile receives a higher frequency signal from the previous one that's when we say our mobile Phone is in active mode.

Mobile phone detectors are devices that can detect active mobile phones around them by using antenna based detection system. As stated earlier when mobile phones are active there exist a radio frequency Signal transmitted and received by the trans receiver and the mobile, thus mobile phone detectors detect are design. To detect this kind of signal by their antenna and use it as an input then give us an output whether by a speaker Alarm, buzzer our any output device. They are mostly used for security purposes. During a test time or any place Where using mobile phones are forbidden, they can be used to detect any kind of cheating. In plane stations they also be used test whether the device in the hand of the customer are mobile phone or not, for the sake of security.

Key words: *Voice communications, mobile phone detector, mobile network.*

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LINKING GREEN INVOLVEMENT AND GREEN SATISFACTION THROUGH PERCEIVED GREEN ORGANIZATIONAL SUPPORT AND EMPLOYEE PSYCHOLOGICAL EMPOWERMENT

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Abstract:

The human factor is a very important factor due to its value, rarity, exclusiveness, and non- repeatability. They are key to implement environmental protection activities that can facilitate successfully meeting environmental objectives. The study attempted to analyze the influence of green involvement on job satisfaction through serial mediation of perceived organizational support and psychological empowerment in the IT sector based on the Delhi NCR region. The data has been collected from 384 respondents for analyzing the results in IBM SPSS version 26 and Amos 21. The results confirmed all the direct hypotheses except the insignificant role of green involvement and perceived organizational support in affecting job satisfaction Further, the study also failed to confirm the mediating role of perceived organizational support between the association of green involvement and job satisfaction. But the research has made a significant contribution by providing empirical evidence of sequential mediation of perceived organizational support and psychological empowerment between both of them. The results of the research will be highly beneficial for the IT HR practitioners in making strategies to encourage the employees to participate in the green activities by making full utilization of their environmental knowledge and skills ultimately leading to job satisfaction towards environment and sustainability.

Key words: *Green human resource management, GHRM, Green involvement, Job Satisfaction, Organizational support, Psychological empowerment.*

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Self-Refusal to Declaration: A Survey of Women in Novels of Bhabani Bhattacharya

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Abstract:

Literature is the best definite record of mortal spirit throughout it, the substance of our living is build foremost by fastening to an inventive encounter. It is a ever varying procedure and this alteration is because of the change that require location in our lives as good as obtain contemplated in Literature, about the appearance of Western education, freedom struggle, alteration in economic circumstances etc…act as a strong crowbars to carry women out of the envelop of arrogance in misery to watch herself as an person. In the novels Bhabani Bhattacharya, he has talked about around this journey of women from self –refusal to self-declaration through the steps of tradition and modernism. He has given with a crooked opened to get out from the cocoon to the spotlight. Bhattacharya states a bent of window opened to watch at the internal self of the woman and to assist them to get out from their crooked into the spotlight when one glimpses into the veranda of Bhattacharya's portrait of women to discover a broad scope of women from traditional to current one all of which are the quite conclusively determined in the regional background. The concept and role of woman portrayed provides us a perception into the ethnic philosophy, alterative and the idea of traditional Indian society in universal. They also endure, increase their voices and protest against the victimization and persecution in a male controlled society.

Key words: *Literature, women, Journey, self-declaration.*

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Paper ID: ICCIASH-2021/9F1

Xenobot: Neither a conventional robot nor a known species of animal

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Abstract:

"Xenobot" the first ever living robot which is less than 1 millimetre in size is a hybrid robot composed of entirely different organic cellular materials of frog's embryos and stem cells. These xenobots are invented by Sam Kriegman, Douglas Blackiston, Michael Levin and Josh Bongard in year 2020.

Purpose: This dissertation aims to know about the changes which can be brought out by Xenobots in the field of medicines and environmental remediation. Presently, the xenobots are fundamentally used as a scientific tool to acknowledge and understand the working principle of how cells work together to build complex bodies.

Approach/methodology: The Living, programmable organisms cooperate and work together in swarms to congregate piles of debris in a field of particles. These living mobile bio bots move in a specific direction (whether by spinning or linear motion) to perform tasks. Since these are actual living cells, these might show an emergent behaviour. These Xenobots are degradable in nature causing no harm to the environment.

Conclusion/practical implications: Potential applications of Xenobots are that they might serve crucial purposes like dissolving a brain tumour, removing plaque from arteries, collecting micro plastics from water bodies. Study and inventions in such fields are increasing the role of AI. They facilitate us a biological understanding. Further development in this field may bring progress in health and well-being of Homo sapiens.

Key words: *Programmable organisms, Biobots, Emergent behaviour, Environmental remediations, Degradable.*

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Paper ID: ICCIASH-2021/9D0

Artificial Intelligence and Robotics – A Detailed Review

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Abstract:

With the growing interest in Artificial Intelligence and Robotics in the areas of medicine, manufacturing, military, and household applications, there is a push to increase the usage of robots and machine learning in these areas. Over the years, machines and computers have performed various tasks and this process seems to be growing exponentially over time. The idea of combining these machines together with the computational power of computers to act or think in a way humans do, creating computers or machines as intelligent as human beings, has existed for some time. Robotics is that field concerned with the connection of perception to action. Artificial Intelligence must have a central role in Robotics if the connection is to be intelligent. Artificial Intelligence addresses the crucial questions of: what knowledge is required in any aspect of thinking; how that knowledge should be represented; and how that knowledge should be used in Robotics challenges AI by forcing it to deal with real objects in the real world. Techniques and representations developed for purely cognitive problems, often in toy domains, do not necessarily extend to meet the challenge. Robots combine mechanical effectors, sensors, and computers. AI has made significant contributions to each component. Object-oriented reasoning includes reasoning about space, path-planning, uncertainty, fitting, and friction. We concluded with three examples that illustrate the kinds of reasoning or problem solving abilities we would like to endow robots with. This article provides an introduction to artificial intelligence, robotics, and research streams that examine the economic and organizational consequences of these and related technologies. We discuss the implications of artificial intelligence, robotics, and automation for organizational design and firm strategy, argue for greater engagement with these topics by organizational and strategy researchers, and outline directions for future research.

Key words: *Artificial Intelligence, Robotics, Future of Work.*

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Paper ID: ICCIASH-2021/930

A REVIEW ON FARM BILLS AND FARMERS PROTEST

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Abstract:

The three new farm acts legislated by the Government of India has been widely acclaimed at home as historical and long overdue. Some experts, states, stakeholders, including farmers, have been protesting against them and seeking their withdrawal. We are going to discuss about the context and significant reasons for undertaking these policy reforms, bringing up the actual contents and spirit of these three acts, and also how APMC (agricultural produce market committee) markets MSP (minimum support price), farmers and the rural economy will be impacted by the new policy environment and also addresses the concerns raised by farmers leaders and critics. We also addresses about the new act so that the underlying reform process is implemented in various states with their appropriate understanding. We also give reasons for expecting the new act to achieve the goal of taking Indian agriculture to new heights and unshering the transformation of the rural economy.

Key words: *Central government, Farmers, APMC (agriculture produce market committee), MSP(minimum support price), Farm bills*

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Paper ID: ICCIASH-2021/972

Principles of Artificial Intelligence

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Abstract:

Present paper deals with the types of AI, key principles of responsible AI, important principles in AI ethics, can AI have morals, and why are AI ethics important. In this study mainly we are going to explore why it is necessarily important to have principles in AI and what are the consequences of neglecting them, and how are the principles really useful to us. We also explore the application of AI in real life situations, the limitations of AI which cause decrease in work efficiency, and finally how do we build trust in AI.

Key words: *Responsible AI, AI morals, AI ethics.*

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Paper ID: ICCIASH-2021/987

E-BALL TECHNOLOGY

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Abstract:

A new concept of PC is coming now that is E-Ball Concept PC. The E-Ball is a sphere shaped computer concept which is the smallest design among all the laptops and desktops have ever made. This PC concept features all the traditional elements like mouse, keyboard, large screen display, DVD recorder etc, all in an innovative manner. E-Ball is designed to be placed on two stands, opens by simultaneously pressing and holding the two buttons located on each side. After opening the stand and turning ON the PC, pressing the detaching mouse button will allow you to detach the optical mouse from the PC body.

This concept features a laser keyboard that can be activated by pressing the particular button. E-Ball is very small; it consists of only 6 inch diameter sphere, with 120×120mm motherboard. This concept PC will measure 160mm in diameter and it was designed for Microsoft Windows OS, not for others. For the moment there is no word on pricing or when it's going to be available, however, I am sure that everyone would like to see a small spherical PC like this one. It is designed by APOSTOL TNOKOVSKI. It's not going to be like a PDA, it's going to be a PC with all conventional components like (1) mouse, (2) keyboard, (3) normal screen. As it is spherical in shape, it draws everybody's attention. E Ball concept pc don't have any external display unit.

Key words: *E-Ball, Spherical Shape, Traditional, Paper Sheet Holder, laser rays technique*

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Paper ID: ICCIASH-2021/801

DO WOMEN'S GLASS CEILING BELIEFS INFLUENCE CAREER SATISFACTION THROUGH SOCIAL SUPPORT?

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Abstract:

The role of career satisfaction is very important for the subjective success of employees. With the advancement in the economy, females' participation in the workforce is increasing but they are still underrepresented in senior positions. So understanding their psychological viewpoints about the glass ceiling and its association with career satisfaction is important. This study aims to articulate the association between glass ceiling beliefs and career satisfaction through social support. Social support is taken as a mediator in this study. For the study, a sample of 300 females working in corporate hospitals was surveyed. Data were analyzed through structural equation modeling in AMOS to understand the relationship. The results found that denial and resilience were positively significantly associated with career satisfaction and acceptance was negatively significantly related to career satisfaction as predicted. But resignation showed a negative significant relationship. Further, social support mediates the relationship between optimistic glass ceiling beliefs and career satisfaction. However, the relationship with pessimistic beliefs was found to be insignificant hence no mediation. Theoretical and practical implications are discussed.

Key words: *Career Satisfaction, Females, Glass Ceiling Beliefs, Social Support.*

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Paper ID: ICCIASH-2021/934

A REVIEW ON BIOLOGICAL WARFARE

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Abstract:

Biological warfare is the deliberate use of disease-causing biological agents such as bacteria, virus, rickettsiae and fungi or their toxins, to kill or incapacitate humans, animals, or plants as an act of war. The following characteristics of biological warfare make them weapons of choice for mass destruction and terrorist action: incubation period (not immediate), amount required is less than chemical warfare agents, odorless, colorless, production with no need for specialized equipment, and natural distribution means that they can easily be obtained. Biological warfare agents (BWAs) are disseminated as aerosol sprays, in explosive devices, in food or water, or by absorption or injection into the skin. Based on the risk to national security, BWAs have been prioritized into three categories by the Centers for Disease Control and Prevention. Anthrax, botulism, plague, smallpox, tularemia and viral hemorrhagic fevers are some of the diseases caused by category agents. Agents such as staphylococcal enterotoxin (type B), epsilon toxin of Clostridium perfringens, ricin toxin, abrin toxin, and trichothecene mycotoxins belong to category B. The agents classified as category C include hanta viruses, multidrug-resistant tuberculosis, Nipah virus, the tick-borne encephalitis viruses, the tick-borne hemorrhagic fever viruses, and yellow fever.

Key words: *Anthrax, biological warfare agent, Botulinum toxins, Botulism, Epsilon toxin, Plague, yellow fever, Ricin toxin, Staphylococcal enterotoxin (type B).*

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Paper ID: ICCIASH-2021/9G4

IMPACT OF COVID-19 ON GLOBAL ECONOMY

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Abstract:

COVID-19 (Coronavirus Disease 2019) was first identified in Wuhan city of China in December 2019. On 30th January, the World Health Organization (WHO) declared COVID19 as a Public Health Emergency of International concern (pandemic). As of 16th April 2021, more than 13 crores 90 lakh people were affected by Covid globally and nearly 30 lakh people died due to the virus.

Coronaviruses (CoV) are a group of viruses that affects animals and humans. The first coronavirus that can affect humans is discovered in the 1960s. Before COVID-19, this family of viruses caused the SARS outbreak in China in 2002, the MERS outbreak in Saudi Arabia in 2012.

COVID-19 is not just affecting the health of the people, but also the economies of many countries. So the topic – 'Impact of COVID-19 on Global economy' since this is only the trail version for the abstract I'm likely to say that the brief information will be produced in next version of assignment.

Key words: *COVID-19, economy, pandemic, impact.*

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Paper ID: ICCIASH-2021/9F3

C-Tracker: GPS and SMS-Based Child Tracking System Using Smart Watch

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Abstract:

The C-Tracker is an intelligent application that ultimately **aims for the prevention and protection against child abuse and to ensure their safety and security; especially for the school going ones**. The most important part of the proposed system is a smart watch that ensures the safety and provides security to the child by using an SOS button. Also it keeps track the locations of the child for further verifications and references.

The child application will send notifications to the parent application and to the saved official numbers that includes the location and picture of the child's surroundings in case of any trouble so that the associated ones can take necessary actions as soon as possible. The very important advantage of the system is that **the parent will receive alert message to their preset phone number even if the parent is offline**. Also, the application provides the facility to send a pre-alert message to the saved numbers in case if the child feels any source of insecurity.

Key words: *Child tracking system, SOS, pre alert.*

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Paper ID: ICCIASH-2021/9E3

USE OF HYPERLOOP IN TRANSPORTATION

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Abstract:

Hyperloop is a completely a new mode of fastest transportation, it is firstly proposed by Elon Musk and a team of engineers from Tesla Motors and the Space Exploration Technologies Corporation in August 2013. Existing conventional modes of transportation of people consists of four unique types: rail, road, water and air. These modes of transport tend to be either relatively slow (e.g., road and water), expensive (e.g., air), or a combination of relatively slow and expensive (i.e., rail).A Hyperloop comprises a sealed tube or system of tubes through which a pod may travel free of air resistance or objects at high speed while being very efficient. Hyperloop consists of a low-pressure tube with capsules that are transported at both low and high speeds throughout the length of the tube. The capsules are supported on a cushion of air, featuring pressurized air and aerodynamic lift. Passengers may enter and exit Hyperloop at stations located either at the ends of the tube, or branches along the tube length. It quickly becomes apparent just how dramatically the Hyperloop could change transportation, road congestion and minimize the carbon footprint globally. With the Hyperloop., extremely fast, inexpensive intercity travel would be widely accessible. If both people and goods can move more quickly and comparatively cheaply, rapid growth is a logical outcome.

Key words: *Enter, object, space.*

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Paper ID: ICCIASH-2021/9G6

Eye Movement-Based on Human Computer Interaction

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Abstract:

User-computer dialogues are typically one-sided, with the bandwidth from computer to user far greater than that from user to computer. The movement of a user's eyes can provide a convenient, natural, and high-bandwidth source of additional user input, to help redress this imbalance. We therefore investigate the introduction of eye movements as a computer input medium.

Our emphasis is on the study of interaction techniques that incorporate eye movements into the user-computer dialogue in a convenient and natural way. It discusses some of the human factors and technical considerations that arise in trying to use eye movements as an input medium, describes our approach and the first eye movement-based interaction techniques that we have devised and implemented experiences and observations on them, and considers eye movement-based interaction as an exemplar of a new, more general class of non-command-based user computer interaction.

Key words: *computer interaction, eye movement.*

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Paper ID: ICCIASH-2021/968

Technology and Early Childhood Education: A Technology Integration Professional Development Model for Practicing Teachers

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Abstract:

Despite the promise of technology in education, many practicing teachers are faced with multiple challenges of effectively integrating technology into their classroom instruction. Additionally, teachers who are successful incorporating educational technology into their instruction recognize that although technology tools have the potential to help children, they are not ends in themselves. This article describes a Summer Institute project that the authors facilitated in a medium sized midwest public university. The summer workshop afforded participating early childhood education teachers exciting opportunities to interact with various instructional tools and technology applications. Further, the practicing teachers explored various strategies to integrate specific technology tools into their lessons in a manner consistent with constructivist pedagogy. This article is intended to stimulate reflections on the need to adopt a suitable technology integration professional development model in early childhood education classrooms to support young learners.

Key words: *early childhood education, classrooms, technology.*

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Paper ID: ICCIASH-2021/9D9

AUTOMATIC ENGINE LOCKING SYSTEM USING ULTRA SONIC SENSOR

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Abstract:

This project presents the design and implementation of an alcohol detection with Engine locking for cars using the ultrasonic sensor and arduino UNO as the MCU (Master Control Unit). The system will continuously monitor level of alcohol concentration in alcohol detection sensor and thus turn off the engine of vehicle if the alcohol concentration is above threshold level. The model will also send the message of where abouts of the vehicle through SIM900A. The project provides an efficient solution to control accidents due to drunk driving. Alcohol driving is the leading cause of road accidents. Alcohol detection requires the stopping vehicles and it manually scan the drivers breadth analyzers. In the system that allows a alcohol sensor with arduino board along with a GSM module to send message notification and LCD display to show alcohol is detected and it automatically lock the vehicle motor. Then the system first allows configuring the user's numbers into the program. And the driver is drunk by alcohol above permissible limit sensed the input triggers by providing required voltage. Thus the system provides alcohol detection using engine locking through arduino incidents automatically.

Key words: *Alcohol Detection, GSM module, locking system.*

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Paper ID: ICCIASH-2021/9D6

Death ray fiddle sticks. It doesn't even slow them up

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Abstract:

Actually, scientists, futurists and science fiction writers have been talking about it for over a century, and fans of science Fiction and futurists have fantasized about it for just as long. The portable Directed-energy weapon that zaps your enemies, rendering them in capacitated or reducing them to a pile of ashes!

What is the DEATH RAY?

The death ray or death beam was a theoretical particle beam or electro magnetic weapon first theorized around the 1920s and 1930s.around that time, notable inventors such as Guglielmo Marconi, NIKOLA TESLA, Harry Grinoell Matthews, EDWIN R. SCOTT, ERICH GRIACHEN and others claimed to have invented it independently. In 1957, the national inventors council was still issuing lists of needed military intentions that included a death ray.

While based in fiction, research into energy based weapons inspired by post speculation has contributed to real life weapons in use by modern militaries sometimes called a sort of death ray, such as the US Navy And it's laser weapon system (LaWS) deployed in mid2014 such armaments are technically known as Directed-energy weapons.

Since the early 20th century, scientists have sought to develop a working Directed-energy weapons, based on ideas put forward by many inventors and scientists.

Key words: *Death ray, directed energy, energy-based weapons.*

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Paper ID: ICCIASH-2021/9F2

Hydroponics: "Old" is the new "New"

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Abstract:

Hydroponics has a long history, starting from very ancient city of Babylon with its famous hanging gardens which are listed as one of the **'seven wonders of the Ancient times'.** Currently it is gaining popularity all over the world. In the late 1920s and early 1930s, Dr. William F. Gericke of University of California extended his laboratory experiments and work on plants nutrition. In the process he termed these nutriculture systems as "hydroponics'.

According to the UN, the world is on the brink of its worst **food crisis** in the coming 5 decades with human population reaching about 9 billion. In 2019 alone, an estimated 124 million people faced acute food shortages. Thereby making food security **a pivotal in human survival.**

Hydroponics is the art of cultivation of plants without using soil. It involves growing plants by using **mineral nutrient solutions** in an aqueous solvent. Hydroponics can be practiced in green houses for commercial use and in open areas like your balcony for personal use. In this article we have discussed six main types of **hydroponic systems** viz. wicking, ebb and flow, drip system, aeroponics, deep water culture (DWC) and Nutrient Film Technique (NFT); their operations; benefits and limitations have been discussed.

It is possible with this technique to **meet the growing food demands** of the population which is difficult by the conventional methods without causing more harm to the land by chemical sprayers and at the same time saving about 70 to 90% water.

Key words: *food crisis, human population, mineral nutrient solution, green houses, saving water.*

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Paper ID: ICCIASH-2021/9D5

Adaptive and Cognitive Network in Wireless Technology Communications

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Abstract:

Cognitive Radio (CR) is a novel wireless technology communication that allows for adaptive configuration of the reception parameters of a terminal, based on the information collected from the environment. CR techniques may be applied to the resolution of emergency crisis to improve the spectrum utilization and the resilience of the wireless networks used by public safety organizations. Typically, such scenarios demand a mechanism for expressing and enforcing access control policies: that is, for stating what are the available resources (e.g. transmission/reception bandwidths), what are the parties that are allowed to access them and under what conditions. However, due to the intrinsically highly dynamic nature of such settings - in which unknown parties may suddenly appear and force a change in the configuration of other parties - it is extremely difficult to establish in advance what are the most suitable access control policies. Trust negotiation is a well-known approach for expressing and enforcing distributed access control policies which depend on two or more (initially mutually untrusting) parties. Such policies are determined on the fly by all the involved parties and do not require a centralized authority.

Overview of the Project:

This paper considers wireless random access channels in which terminals contend for access to a common access point (AP) as is the case in wireless local area networks and cellular systems. To exploit favorable channel conditions terminals adapt their transmitted power and access decisions to the state of the random fading channels linking them to the AP. The challenges in developing this adaptive scheme are that terminals have access to their own channel state information (CSI) only and that the probability distribution function (pdf) of the fading channel is unknown. The goal of this paper is to develop a distributed learning algorithm to determine optimal transmitted power and channel access decisions relying on local CSI only

Key words: *Cognitive Radio, common access point, channel state information.*

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Paper ID: ICCIASH-2021/9C8

A STUDY ON DATA SECURITY AND PRIVACY

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Abstract:

This paper deals with the privacy issues that we are facing nowadays. Data today is an asset more critical than ever for all organizations we may think of. Recent trends, such as sensor systems, IoT, cloud computing, and data analytics are making it possible to pervasively, efficiently and effectively collect data. Advancement in technology such as Mobility, Data Mining, Cloud computing, etc. brings unforeseen challenges and one of the major challenges is a threat to "privacy". Today we can access any information related to anyone from anywhere at any time but this arises a new threat to private and confidential information. Even though data security and privacy have been widely investigated over the past thirty years, today we face new difficult data security and privacy challenges. Some of those challenges arise from increasing privacy breaches concerning the use of data and from the need of reconciling privacy for security in applications such as homeland protection, counterterrorism, health, food and water security. Different countries have introduced different legal frameworks like DPA (Data Protection Act)1998 UK, ECPA (Electronic Communications Privacy Act of 1986) the USA, etc., from time to time, but in India, there is no such comprehensive legal framework that deals with the privacy issue. In this paper, we discuss relevant concepts and approaches for data security and privacy and identify research challenges that must be addressed by comprehensive solutions.

Key words: *Data privacy, privacy issues, data security.*

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Paper ID: ICCIASH-2021/9C7

THE RISK OF USING VIRUS INFECTED COMPUTER

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Abstract:

Computer viruses pose risks for certified public accountants. Viruses can damage firm equipment, data and programs and can also damage the data, programs, and equipment of clients.

Today's enterprise networks are distributed to different geographical location and applications are most centrally located; information represents the most important asset. With the growing number of data communication services, channels and available software applications, data are processed in large quantities and in a more efficient manner. This technological enhancement offers new flexible opportunities also measure security threats poses in the networks. These threats can external or internal, external threats divided as hacking, virus attack, Trojans, Worms etc. It appears that for most part these viruses have been only mildly destructive. However, whether or not computer viruses have the potential to cause major and prolonged disruptions of computing environment in an open.

The risk of using virus infected computer. The viruses and spyware can attack the computer. The opening infected email attachment such as exe files. Opening infected files from web based digital file delivery companies. The viruses and spyware very serious consequences.

There are thousand and thousands of different viruses these days which improve every day. Although the wild spread of new and strong viruses, it still infects and spread only with user's permission. This research paper highlights the phases of computer virus, history of worst computer attack, type of computer virus with effect on computer and few examples of virus on their types, working of computer virus and problem occur due to virus in computer.

Key words: *Network, virus, hacking, attack of computer virus, security threats, Trojans, Worms.*

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CYBER SECURITY

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Abstract:

Despite all visible dividers, the Internet is getting us closer and closer but with a great price. Our security is the price. The international community is fully aware of the urgent need to secure the cyberspace as you see the multiplication of security standards. As we know many cybercrimes are happening in now a days, like email and internet fraud, identity fraud, theft of financial or card payment data etc. As per In January 2019 alone, 1.76 billion records were leaked from various data breaches around the world. So there is urge to think about it and explaning the people about these cybercrimes. There are many solutions for these problems like network security, application security, information security and operational security. etc

Key words: *cybercrimes, security, network.*

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Cryptography Advances in Network Security

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Abstract:

Technology is on the ascendancy ever since it came to the foray. New and innovative technologies have been invented all over the world across all sorts of platforms. With such advanced technology around there are also an adverse side to it, security treats are most common nowadays leaving the network fragile and vulnerable. Of late we been hearing stories of hackers attack at various important government organizations and defense websites. There should be a proper security measures to counter these malicious attacks.

The concept of data security has attained an extremely paramount importance in this modern cyber world. The present scenario is very much vulnerable to unexpected malicious attacks even with all modern security measures. These malicious intruders include casual prying, snooping, commercial espionage etc.

To increase the security level of networks Microsoft suggested a new measure called palladium which will help bring more security to their software, it is basically a new set of features that not only upheld security of data and the integrity of the system but also provides some much-needed personal privacy. Palladium is integrated into windows kernel which couples with the hardware and various chipsets to form a secured subsystem.

The present security features in windows will not be compromised for this new feature and both will run hand in hand. Language and system interoperability is another feature of palladium; this means we can write the user specific programs for more security. The hardware components include a trusted space, sealed storage, secured input and output and in hand.

Language and system interoperability is another feature of palladium; this means we can write the user specific programs for more security. The hardware components include a trusted space, sealed storage, secured input and output and attestation whereas software component includes trusted operating root or commonly known nowadays as nexus technology and trusted agents which provides encryption features. The hardware used in this security measure are computer chips, keyboard, scanner, printer and an altered CPU and palladium component store files in a cryptography mode.

Key words: *Advanced technology, network, hackers.*

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Paper ID: ICCIASH-2021/9G9

A Prodigious Revolution: Internet of Things (IoT)

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Abstract:

The Internet of things (IoT) describes the network of physical objects—a.k.a. "things"—that are embedded with sensors, software, and other technologies for the purpose of connecting and exchanging data with other devices and systems over the Internet. Thanks to the arrival of super-cheap computer chips and the ubiquity of wireless networks, it's possible to turn anything, from something as small as a pill to something as big as an airplane, into a part of the IoT. Connecting up all these different objects and adding sensors to them adds a level of digital intelligence to devices that would be otherwise dumb, enabling them to communicate real-time data without involving a human being. The Internet of Things is making the fabric of the world around us smarter and more responsive, merging the digital and physical universes. Pretty much any physical object can be transformed into an IoT device if it can be connected to the internet to be controlled or communicated information. A lightbulb that can be switched on using a smartphone app is an IoT device. An IoT device could be as fluffy as a child's toy or as serious as a driverless truck. Some larger objects may themselves be filled with many smaller IoT components, such as a jet engine that's now filled with thousands of sensors collecting and transmitting data back to make sure it is operating efficiently. At an even bigger scale, smart cities projects are filling entire regions with sensors to help us understand and control the environment.

This paper will brief on how IoT works, strategically analyze its challenges and will brief the wide range of applications that IoT has.

Key words: *IoT-Internet of Things.*

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Importance of Food over Ethics

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Abstract:

There are varieties of people having different opinions and in my opinion. Food comes first then anyone can think about ethics later. Lets take an example of a hungry person who had not eaten anything for a week then how can he survive without food. First of all, food is required for his/her survival then anyone can think of ethics. So, according to me, food is the basic need of a person and one can't live without it.

Definitely, it is food that comes first. I came across an incident while I was watching discovery. There was a family who had been trapped in between the icebergs. Cause of the low temperature in that region all the family members had died except the two sisters. They were really starving at that point but nothing was available for them to eat. Suddenly one of the sisters cut the mother's body and started eating it. This was definitely unethical. But we all must be aware of the phrase 'survival of the fittest'. This exampe truely proves that life is the first priority for which a person can always become unethical.

I agree with the statement that food comes first than ethics. Food is the primary source of energy and its necessary to live a healthy life. Families of poor people who are not able to get their daily meal, ethics would not be their primary concern. They first need to feed their own families, in any way it's possible whether the ethics are broken or not. But for the middle class and rich people, ethics should be followed first. They should have equality in men and women, obedience towards law of land, concern towards natural environment etc. So, according to me, giving primary concern to food or ethics depends on the situation of one's life.

Key words: *Food, ethics, life, family.*

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RECENT ADVANCES IN CYBER SECURITY

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Abstract:

Cyber security accepts a vigorous role in the area Of information technology. Safeguarding the information has become an enroumous problem in the current day. The Cybersecurity main thing that originates in the mind is 'cyber crimes' which are increasing immensely day by day. Various government and companies are taking many measures in order to prevent these cyber crimes. The Cyberterrorism could make association lose billions of dollars in the region of organisations.

Major security problems are virus hackers, Malware, Trojan horses, password cracking. Virus is a programme that is loaded onto our computer system without our knowledge and runs against our wishes.

India stands 10th in the cyber crime in the world. In the last year's, we've witnessed a major increase in cyber attacks, situvation that forced government to create space on their agenda for a new topic is Cyber security of their public and private networks. We have to create message of influence because security is a culture and need business to take place and be a part of that security culture. This paper mainly focuses on challenges faced by cybersecurity on the latest technologies. It also focuses about December security techniques ethics and the trend changing the fact of cybersecurity.

Key words: *Cybersecurity, cyber terrorism, Trojan horses, Malware.*

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ARTIFICIAL INTELLIGENCE IS LIKELY TO BE THE BEST THING TO HAPPEN TO HUMANITIES

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Abstract:

Artificial intelligence (AI) is a wide-ranging tool that enables people to rethink how we integrate information, analyse data and use the resulting insights to improve decision making—and already it is transforming every walk of life.

The intelligence demonstrated by machines is known as Artificial Intelligence. Artificial Intelligence has grown to be very popular in today's world. It is the simulation of natural intelligence in machines that are programmed to learn and mimic the actions of humans. These machines are able to learn with experience and perform human-like tasks. As technologies such as AI continue to grow, they will have a great impact on our quality of life. It's but natural that everyone today wants to connect with AI technology somehow, may it be as an end-user or pursuing a career in Artificial Intelligence. Actually it is

- An intelligent entity created by humans.
- Capable of performing tasks intelligently without being explicitly instructed.
- Capable of thinking and acting rationally and humanely.

The purpose of Artificial Intelligence is to aid human capabilities and help us make advanced decisions with far-reaching consequences. That's the answer from a technical standpoint. From a philosophical perspective, Artificial Intelligence has the potential to help humans live more meaningful lives devoid of hard labour and help manage the complex web of interconnected individuals, companies, states and nations to function in a manner that's beneficial to all of humanity.

Currently, the purpose of Artificial Intelligence is shared by all the different tools and techniques that we've invented over the past thousand years – to simplify human effort, and to help us make better decisions. Artificial Intelligence has also been touted as our Final Invention, a creation that would invent ground-breaking tools and services that would exponentially change how we lead our lives, by hopefully removing strife, inequality and human suffering.

Key words: *Artificial intelligence, decisions, business.*

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Paper ID: ICCIASH-2021/9C5

DESIGN AND DEVELOPMENT OF DOMOTICS - THE FUTURE OF SMART, EFFICIENT AND SECURE LIVING

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Abstract:

The world around us keeps getting smarter, not only having advanced Al services like Google Assistant but now we have got the internet of things connecting physical objects to the digital world. Our homes aren't just about furniture, fixtures, and decor — they're also about safety, security and harmony. How we modify our homes with the present technology reflects our inner selves. Ever thought of a life where you could just command your home appliances to work as you need just by using your voice? This paper presents a proposal for smart, efficient and secure living using Google Assistant.

"Domotics" (from the Latin word "domus" - house) or Home Automation, the electrotechnics that makes a home become "smart". Over these years many home automation technologies like Zigbee automation, Amazon Echo, Google Home and Apple Home have been introduced. Automation of a device using Google Assistant also has a wide scope for the forthcoming generation.

One of the most useful features is that the Google Assistant can act as your own smart concierge. In this home automation, as the user gives commands to the Google Assistant, home appliances like Bulb, Fan and Motor, Kitchen Appliances etc., can be controlled accordingly. These commands are decoded and then sent to the microcontroller [Node MCU (ESP8266)], which in turn controls the relays connected to it. The device connected can be turned On or OFF as per the users request to the Google Assistant. The communication between the microcontroller and the application can be done via Wi-Fi (Internet). Soon there would be a natural back and forth conversation with the assistant which makes our work even easier as you won't have to say "Hey Google" for your every command.

Key words: *Domotics, Google Assistant, Domus, Home Automation, Micro controller, Electrotechnics, Concierge.*

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A REVIEW ON BLOGGING

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Abstract:

Blog is a word resulting from the simplification of the term blog. We can define blog as an online diary. The person who runs the blog is called "Blogger". Blogs are websites which are regularly published various contents, such as text, image, music or video, both can be dedicated to a specific subject as being quite generally. A blog is a place where you can share things you find interesting and useful not only to you as others. They can be held by one or more persons and usually have room for comments from your readers. Blogger is the name given to those who publish a blog and the blogsphere is the set of blogs. Many bloggers decide to use a blog to organize their thoughts, while some become influential with thousands of followers and loyal readers, because what they have to say to people is important and want to hear it may be even follow it. These are major types of blogs but there are a lot more to discover. There are also community blogs, nonprofit blogs, live webcam blogs, live game screencast blogs, device types blog, podcast blogs, various video and mixes all of types. Today there are more than 570 million blogs on the web. The number of bloggers in the USA alone is set to reach 31.7 million users by 2020.

Key words: *Narrow down your topic , Write and optimize your post, monitizing blog.*

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A REVIEW OF THEORY BEHIND SOLAR CELL & SOLAR SYSTEMS

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Abstract:

Solar cell is the Photovoltaic cell that convert the light energy (which come from sun) into electrical energy. The Solar cells are based on the principles of Photovoltaic effect. The PHOTOVOLTAIC EFFECT is the photogeneration of charge carriers in a light absorbing materials as a result of absorption of light radiation. When a solar panel is exposed to sunlight, the light energies are absorbed by a semiconductor materials. Due to this absorbed energy, the electrons are liberated and produce the external DC current. The DC current is then converted into 240-voltAC current with an invertor for different applications. Solar cell is clean and non-polluting renewable energy source. Solar cells do not produce noise and they are totally silent. Also, they require very little maintenance. Because of these features, it becomes necessary to review the theory behind solar cell and solar systems.

Key words: *Domestic power supply, Drying agricultural products, Water heating.*

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Status and Scope of Robotics in Agriculture

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Abstract:

Robotics is playing a significant role in agricultural production and management. There is a need for autonomous and time saving technology in agriculture to have efficient fam management. The researchers are now focusing towards different farming operational parameters to design autonomous agricultural vehicles as the conventional farm machineries are crop and topological dependent. Till date the agricultural robots have been researched and developed principally for harvesting, chemical spraying, picking fruits and monitoring of crops. Robots like these are perfect substitute for manpower to a great extent as they deploy unmanned sensing and machinery systems. The prime benefits of development of autonomous and intelligent agricultural robots are to improve repeatable precision, efficacy, reliability and minimization of soil compaction and drudgery. The robots have potential for multitasking, sensory acuity, operational consistency as well assuitability to odd operating conditions. The study on agricultural robotic system had been done using model structure design mingled with different precision farming machineries. Few prototypes were designed by European Union named CROPS, USA-ISAAC2 & Michigan-Hortibot, Australia AgBot, Finland- Demeter, India-Agribot and many other countries. The agricultural robots are designed using different localization techniques which are vision, GPS, laser and sensor based navigation control system. In this paper, comparative study including an overview of Robotics approach for precision Agriculture in India and worldwide development is explored.

Key words: *Precision Farming. Agricultural Robots, localization techniques, Mechatronics.*

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Paper ID: ICCIASH-2021/9C3

ANALYSIS OF SMART FARMING AND BIG DATA IN AGRICULTURE

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Abstract:

Our country is one of the largest producers of agriculture production in the world. For the growth of Indian economy and sustenance it is absolutely essential, which plays an important role in socioeconomic development of the country. But the agriculture is facing severe problems with the increase in the prices of food that have pushed nearly 40 million people into poverty since 2010. To overcome this and benefit greatly agriculture industry makes use of data in many practical ways. The combination of agriculture sector with bigdata leads to a concept known as smart farming, which emphasizes the use of communication technology and information in the cyber-physical farm management cycle in its development. In this article we see more about bigdata in smart farming and how they are useful in improving the economy of our country.

Key words: *Socioeconomic development, agriculture industry, agriculture sector, smart farming.*

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DEVELOPMENTS OF SMART POWER GRID

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Abstract:

The development and implementation of a smart grid for power supply is one of the pressing issues in modern energy economy, given high national priority and massive investments, although the entire subject is still in its infancy stage .The smart grid delivers electricity from producers to consumers using two-way digital technology, and allows control of appliances in the consumers' houses and of machines in factories to save energy, while reducing costs and increasing reliability and transparency. Such a modern electricity network is promoted by many governments as a way of handling energy independence, themselves constitute a smart grid. A smart grid includes an intelligent monitoring system that keeps track of all the electricity that flows in a system. It could incorporate the use of super-conducting transmission lines to reduce losses, as well as the ability to integrate electricity from alternative sources such as solar and wind. When the electricity cost is low, the smart grid can offer the customer to run intensive consumption household appliances, such as washing machines, or processes in plants that operate at flexible hours. On the other hand, smart grid at peak hours can, in co-ordination with the clients, turn-off selected appliances and machines to reduce demands.

In principle, the smart grid an upgrade of the common electricity grids that operate mostly to provide one-way power from several major power plants to a large number of consumers. These upgrade is expressed in the ability to operate in conditions of uncertainty in order to root the power supply in an optimal way that responds to a wide variety of situations, to encourage users in off peak hours and change premium rates from consumers who use energy during peak hours.

Key words: *Capability, accurate, two-way transmission, transmission in consumption.*

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Paper ID: ICCIASH-2021/9H3

Evolution of Processor Architecture in the Mobile Phones

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Abstract:

The Mobile phone has become a vital component of our daily life. Technological advancements have resulted in significant changes in the processor architecture of the mobile phones; transforming the typical mobile phones of 1990's to modern smart phones. The design and deployment of mobile processors over the years is largely affected by communication, performance, and low-power operation. The transition from analog to digital telephony has resulted in mobile devices delivering a wide range of data services to support these services, processor architecture has now become much more complex. The Mobile processors are growing rapidly with each passing generation. Balancing energy–performance trade-offs for smartphone processor operations is under going intense research considering the challenges with the evolving technology of the mobile computing. However, to guarantee energy-efficient processor operation, layout, and architecture, it is necessary to identify and integrate optimization techniques and parameters influencing energy–performance trade-off in various processor activity domains. Existing Literature on energy optimization in smartphones focuses primarily on individual sub-domains such as OS, GPU, and cloud offloading methods. It reflects multiple smartphone processor activities domains as being the most discussed but less integrated. We intend to provide the current state-of-the-art energy optimization techniques for smartphone processor operations through this study. It also classifies multiple energy-draining processor operations along with their thorough discussion ofmethodologiesandpopularoptimizationtechniques.Thestudymodelssmartphoneprocessorsub-components highlighting conventional techniques and performance parameters among its varied domains affecting the device's energy performance along with significant energy drainminimizationwithoutanyseriousperformancedegradation.Thestudyanalysestheseapproaches in the context of applicability, performance, and expected future demands along with revealing limitations of those approaches and open research issues prevailing in the available literature.Finally,weconcludeourstudybysummarizingthecurrentstateoftheartforsmartphoneprocessoractivities power consumption.

Key words: *Processor architecture, DSP, VLIW, SoC, ARM processors.*

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Paper ID: ICCIASH-2021/9G3

Effect of Alcohol on Youngsters

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Abstract:

Alcohol use by young people is dangerous, not only the risks associated with acute impairment, but also the threat to their long-term development and well-being. Traffic crashes are perhaps the most visible of these dangers, with alcohol being implicated in nearly one-third of youth traffic fatalities. Underage alcohol use is also associated with violence, suicide, educational failure, and other problem behaviors. All of these problems are magnified by early onset of teen drinking: the younger the drinker, the worse the problem. Moreover, frequent heavy drinking by young adolescents can lead to mild brain damage. The social cost of underage drinking has been estimated at $53 billion including $19 billion from traffic crashes and $29 billion from violent crime.

Alcohol use continues to be problematic for youth and young adults in the United States. Understanding of neurobiology and neuroplasticity continues to highlight the potential adverse impact of underage drinking on the developing brain. This policy statement provides the position of the American Academy of Pediatrics on the issue of alcohol and is supported by an accompanying technical report.

It is hardly surprising that alcohol use and alcohol products are frequently displayed or mentioned in prime-time television, movies, and music. Although the viewing or listening audiences for most of these media products are predominantly adult, some of them are disproportionately underage, and even the predominantly adult audiences inevitably include large numbers of young people.

That underage drinking cannot be successfully addressed by focusing on youth alone. Youth drink within the context of a society in which alcohol use is normative behavior and images about alcohol are pervasive. They usually obtain alcohol—either directly or indirectly—from adults. Efforts to reduce underage drinking, therefore, need to focus on adults and must engage the society at large.

Key words: *Adolescent Behavior, Traffic crashes, Depression, Alcohol Drinking Epidemiology, Violent Crime, Health Behaviour, Media Influence, Underage Drinking.*

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Paper ID: ICCIASH-2021/9H6

CYBER SECURITY

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Abstract:

In recent years, the widespread applications of open-source software (OSS) have brought great convenience for software developers. However, it is always facing unavoidable security risks, such as open-source code defects and security vulnerabilities. To find out the OSS risks in time, we carry out an empirical study to identify the indicators for evaluating the OSS. To achieve a comprehensive understanding of the OSS assessment, we collect 56 papers from prestigious academic venues (such as IEEE Xplore, ACM Digital Library, DBLP, and Google Scholar) in the past 21 years. During the process of the investigation, we first identify the main concerns for selecting OSS and distill five types of commonly used indicators to assess OSS. We then conduct a comparative analysis to discuss how these indicators are used in each surveyed study and their differences. Moreover, we further undertake a correlation analysis between these indicators and uncover 13 confirmed conclusions and four cases with controversy occurring in these studies. Finally, we discuss several possible applications of these conclusions, which are insightful for the research on OSS and software supply chain.

Key words: *Open-Source software, DBLP, vulnerabilities*

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Paper ID: ICCIASH-2021/9H5

Time Management and its Strategies: A Qualitative Study

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Abstract:

Time management is an essential component of leadership. Leaders need to develop strategies to maximize time in order to achieve personal and organizational goals. While there are numerous time saving methods, leaders will need to test and determine which patterns are most effective for their personal style. There are some organizational strategies that will benefit the individual leader as well the organization such as planning, goal setting, delegation, decision authority, and work life balance. By managing time, the leader is accounting for the important commodity of time within an organization. "Time management" refers to the way that you organize and plan how long you spend on specific activities. It may seem counter-intuitive to dedicate precious time to learning about time management, instead of using it to get on with your work, but the benefits are enormous: Greater productivity and efficiency. A better professional reputation. Less stress. Increased opportunities for advancement. Greater opportunities to achieve important life and career goals. Failing to manage your time effectively can have some very undesirable consequences: Missed deadlines, inefficient work flow, poor work quality, a poor professional reputation and a stalled career. Higher stress levels.

Key words: *Organizational goals, Inefficient work flow, Poor work quality.*

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Compiler Optimization and Embedded Systems

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Abstract:

Embedded systems have had tremendous growth in the last few years and account for more than 99% of microprocessors produced every year. The recent advances in the embedded processors increase the compilers complexity. Embedded systems have ever increasing demands for functionality and performance, while requiring very low cost. Optimizing compilers can play a role in achieving cost/performance goals for embedded systems by applying code transformations to improve performance, minimize memory footprint, and lower energy consumption. The compiler optimization in the synthesis phase is a program transformation technique, which tries to improve the intermediate code by making it consume fewer resources (i.e. CPU, Memory) so that faster-running machine code will result.When applying optimizations, a number of decisions are made using fixed strategies, such as always applying an optimization if it is applicable, applying optimizations in a fixed order and assuming a fixed configuration for optimizations such as tile size and loop unrolling factor. Optimizing embedded applications using a compiler can generally be broken down into two major categories: hand-optimizing code to take advantage of a particular processor's compiler and applying built-in optimization options to proven and well-polished code. In this paper, we present a framework that enables these decisions to be made based on predicting the impact of an optimization, taking into account resources and code context.

Key words: *Embedded systems, optimizing compilers, memory footprint, lower energy ,loop unrolling factor.*

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Paper ID: ICCIASH-2021/9H2

VIRTUAL NETWORK COMPUTING

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Abstract:

Virtual Network Computing is an ultra thin client system based on a simple display protocol that is platform independent. It achieves mobile computing without requiring the user to carry any hardware. Virtual Network Computing provides access to home computing environments from any wherein the world, on whatever computing infrastructure happens to be available-including, for example, public Web browsing terminals in airports. In addition, Virtual Network Computing allows a single desktop to be accessed from several places simultaneously, thus supporting application sharing in the style of Computer Supported Cooperative Work. The technology underlying Virtual Network Computing is a simple remote display protocol. It is the simplicity of this protocol that makes Virtual Network Computing so powerful. Unlike other remote display protocols such as the X Window System and Citrix's ICA, the Virtual Network Computing protocol is totally independent of the operating system, windowing system, and applications. The Virtual Network Computing system is freely available for download from the ORL Web site at http://www.orl.co.uk/vnc/. We begin the article by summarizing the evolution of Virtual Network Computing from our work on thin client architectures. We then describe the structure of the Virtual Network Computing protocol and conclude by discussing the ways we use Virtual Network Computing technology now and how it may evolve further as new clients and servers are developed.

Keywords: *Virtual Network computing, Screen mirroring, Joystick, Gyroscope, Remote Procedure call (RPC).*

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Paper ID: ICCIASH-2021/9B3

A Review on Everything about Reinforcement Learning

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Abstract:

Reinforcement Learning is an area of Artificial Intelligence; it has emerged as an effective tool towards building AI system and decision making problems. Recently, Reinforcement Learning (RL) strategies have attracted researcher's interest as a powerful approach for effective treating important problems in the field of production and project management. Reinforcement Learning is a part of Machine Learning and comprises algorithms and techniques to achieve optimal control of an Agent in an environment providing a type of artificial intelligence. Reinforcement Learning was efficient in solving some control system problems. Now days, it has a growing large range of applications. The objective of this work is to summarize, in brief, recently proposed studies using reinforcement learning strategies for solving project scheduling problems and production scheduling problems as well. Based on the review, we suggest direction for future research about approaches that can be proved interesting in practice.

Key words: *Reinforcement Learning, Artificial Intelligence, control system.*

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Paper ID: ICCIASH-2021/9H0

Characterizing and predicting early viewers for effective product marketing on e-commerce websites

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Abstract:

Online reviews have become an important source of information for users before making an informed purchase decision. Early reviews of a product tend to have a high impact on the subsequent product sales.

In this paper, Take the initiative to study the behavior characteristics of earlyre viewers through their posted reviews on two real second -world large e-commerce platforms, i.e., Amazon and Yelp. In specific, we divide the product lifetime into three consecutive stages, namely early, majority and laggards. A user who has posted a review in the early stage is considered an early reviewer. We quantitatively characterize early reviewers based on their rating behaviors, the helpfulness scores received from others and the correlation of their reviews with product popularity. We have found that (1) an early reviewer tends to assign a higher average rating score; and (2) an early reviewers tends to post more helpful reviews. Our analysis of product reviews also indicates that early reviewers' ratings and their Received helpfulness scores are likely to influence product popularity. By viewing review posting process as a multiplayer competition game, we propose the novel margin-based embedding model for early reviewer prediction. Extensive experiments on two differente-commerce data sets have shown that our proposed Approach out performs a number of competitive baselines.

Key words: *Behaviour-characteristic of early reviews, Rating behaviour, Margin-based on embedding model.*

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The role of Extended Reality (XR) in the Education system

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Abstract:

Education is the fundamental base of our society.

The purpose of this article is to appreciate the role of Extended Reality (XR) in the educational field. Visualization plays an extremely crucial role in student pedagogy, extended reality (XR) technology is a blend of Virtual Reality (VR), Augmented Reality (AR) and Mixed Reality (MR) which brings conjunction between the fictitious world and the natural world. Visualization enables students to remember concepts forever. With the help of Extended Reality (XR), instructors make students learn concepts effortlessly. Students have an opportunity to learn by doing rather than passively reading.

Extended Reality (XR) is the best way to transfer knowledge more easily, more effectively, and more quickly.

Key words: *Extended Reality (XR), Augmented Reality (AR), Mixed Reality (MR), visualization.*

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Paper ID: ICCIASH-2021/909

Intensity Monitoring System

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Abstract:

The Internet of Things (IoT) refers to a system of interrelated, internet-connected objects that can collect and transfer data over a wireless network without human intervention. A 'thing' in 'IoT', can refer to a connected medical device, a biochip transponder, a solar panel, a connected automobile with sensors that alert the driver to a myriad of possible issues like fuel, tire pressure, needed maintenance and more or any object, outfitted with sensors, that has the ability to gather and transfer data over a network.

The overview of the project is Intensity Monitoring System is a device that will continuously measure the light intensity and store the data in cloud. We can view this data on the phone in the form of graph frequency. Monitors the Intensity of the light at a particular area, how bright light is at a location. For example, we can check whether there is adequate light for the growth of plants or not.

Key words: *Internet of Things, Intensity Monitoring System.*

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Paper ID: ICCIASH-2021/932

Energy Generating Solar Tree

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Abstract:

Now a days with the growing population and energy demand we should take a renewable option of energy source and also we should keep in mind that energy should not cause pollution and other natural hazards.

In this case, the solar energy is the best option for us. India is a highly populated country. So we should take the advantage of such an energy, which requires a very less space to produce energy efficiently.

In this case, solar tree could be best one for us. We can also use the technique called "SPIRALLING PHYLLATAXY" to improve the efficiency of the solar plants. It can he applied in street lightening system. industrial power supply etc. Enoch is better than the traditional solar PV system in area point of view and also more efficient. So this will be a very good option and should be implemented It is a form of renewable energy resource that is a measure of competitive with fossil fuels. Hydropower is the source of energy of moving water it provides about 96% of the renewable energy in the united state. Hydroelectric power plants do not use any resources to create electricity or they do not pollute the air. The sun is a hydrodynamic spherical body of extremely hot ionized gases (plasma). generating energy by the process of the thermonuclear fusion. The temperature of interior of the sun is estimated at 8'10'6 k to 40'10'6 k. where energy is released by fission of hydrogen and helium. Solar energy is available in abundance and considered as the easiest and cleanest means of traping the renewable energy. For direct conversion of solar radiation into usable form. The routes arc: solar thermal. Solar photovoltaic and solar architecture. However, the main problem associated with traping solar energy is the requirement to install large solar collectors which requires a large area. To avoid this problem we can Install a solar tree in spite of a no of solar panels which require a very small space.

Key words: *Design, Solar Tree, Renewable Energy, CAD software.*

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Paper ID: ICCIASH-2021/9H4

ELECTRONIC PAPER DISPLAY

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Abstract:

It is also called E-paper. It is a display technology using organic electronics designed to mimic the appearance of regular ink on paper. Electronic Paper display is also known as EPD. It is a display Device that possesses a paper-like high contrast appearance, ultra-low power consumption, and a thin, light form. It gives the viewer the experience of reading from paper while having the power of Updatable information. Unlike a conventional flat panel display which uses a back light to illuminate its Pixels, electronic paper reflects light like ordinary paper and is capable of holding text and images indefinitely without Drawing electricity or using processor power, while allowing the paper to be changed. One important feature is that the state of each pixel can be maintained without a constant supply of power.

Key words: *electronic paper display, E-paper, power consumption.*

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Paper ID: ICCIASH-2021/9C4

BLUE ORIGIN: A BUSINESS MODEL INNOVATION IN SPACE TOURISM

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Abstract:

Blue origin is an initially start up founded by world's richest person jeff Bezos on 2002.This start up makes aerocraft which takes their passenger to the space. This company makes the aerocraft using reusable waste materials and put much effort to make their passengers to travel into space with highly comfort. This company CEO Bob Smith aims to access to space cheaper and more reliable through reusable launch vehicles.

This blue origin is much similar to Elon musk SpaceX. Thus, both the companies rushing to travel in space. Both uses same technology and prefer re-usable waste materials in there rockets. Though this start up initially failed several times later it suceeded. It is not even developing the rockets it even focuses on different technologies like as vertical landing and vertical take-off. Initially focused on suborbital spaceflight, the company has designed, built, and flown multiple testbeds of its New Shepard vehicle at its facilities in Culberson County, Texas. Developmental test flights of the New Shepard.

This blue origin main motto is *Gradatim Ferociter*, Latin for "Step by Step furiously". The company's Blue Origin refers to the blue planet, Earth, as the point of origin. Till it not yet conformed the commercial passenger travelling flights. In May 2019, Jeff Bezos revealed Blue Origin's vision for space and also plans for a moon lander known as "Blue Moon" set to be ready by 2024.

By the end of this study, we will get to know that how this company use the eco-friendly material and reusable materials to make aircraft and thus how this company provide the cheaper fare tickets to travel in space.

Key words: *Suborbital rocket, lunar lander, gradatim ferociter, aerocraft.*

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Paper ID: ICCIASH-2021/9C2

A STUDY OF ENGINEERING CONTRIBUTION TO MODERN WORLD INNOVATION

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Abstract:

In fact, Engineers have completely changed the world we live in, from modern homes, bridges, space travel, cars and the latest mobile technology.

Engineering plays a crucial part in making things happen using innovation, creativity and a wealth of knowledge. Engineering graduates are impacting the world unlike any others. The world is changing and Engineers are the on behind the development and innovation. Engineers must be "critical yet creative", "curious yet capable", as well as ready to handle the constantly changing world. In an advanced technological world, we need engineers to bring ideas into reality. By applying the principles of mathematics and science, engineers develop the solutions to the world's biggest technical issue.

Engineering is very closely linked to technology and the rise of it, which is why it has played a huge part in technological advances including computers, hospital machines, the internet and more.

It is proud to say that modern society would not exist without engineering. Imagine if we lived in a world without mobile phones, TVs, cars, planes, energy, medicines. All this are excellent examples of engineering, which show how important engineering for the society. If there is no mobile phones, TVs, cars, planes, energy, medicine, everyday life would look unrecognizable and our progress would set back hundreds - if not thousands of years.

Key words: *Engineering, creative, technology, innovation.*

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Paper ID: ICCIASH-2021/913

A REVIEW ON CINEMA OF INDIA

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Abstract:

"Everyone loves movies and storytelling as nation, it's simply human compulsion to concentrate to and tell stories". Movies have an effect on several people powerfully as a result of the combined impact of images, music, dialogue, lighting, sound and lighting tricks will elicit deep feelings. They can shed lightweight on political and religious matters too and might offer catharsis and perspective and will open our eyes to new ways in which of thinking, feeling and following our lives. Film is taken into account to be a very important art form, a supply of in style diversion, and a strong medium for educating—or indoctrinating—citizens. The visual basis of film offers it a universal power of communication. Indian cinema is known with the films of Satyajit Ray, Mrinal Sen, A door Gopalkrishna etc. Revenue of the screenland in Bharat in 2020 is seventy-two.2 billion Indian rupees. Indian cinema has challenged social injustices like caste, the oppression of Indian girls, non- secular intolerance, rural impoverishment, and also the pressures of life within the burgeoning cities. The business reflects the complexness and style of Indian society through the dramatic changes of the twentieth century, and into the beginnings of the twenty-one. India is that the largest producer of films within the world and second oldest screenland within the world. Indian screenland is multi-lingual and also the largest within the world in terms of price ticket sales however third largest in terms of revenue primarily thanks to having among very cheap price ticket costs within the world. The business viewed primarily by a huge film-going Indian public, and Indian films are gaining increasing quality within the remainder of the world—notably in countries with massive numbers of expatriate Indians. Indian screenland is additionally the dominant supply of films and diversion in its neigh boring countries of South Asia. There has never been done additional favourable time for Indian cinema than nowadays with a spirited artistic community, new technology and investment interest, we tend to are on the verge of seeing Indian cinema transcend its national borders to project Bharat socio-political and economic influence round the world.

Key words: *Movies, Indian cinema, producer of films.*

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A REVIEW ON QUANTUM TECHNOLOGY

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Abstract:

Quantum technology is rapidly emerging field all over the world. This technology is based on the principle of quantum mechanics which was initially used to describe microscopic particles. In the upcoming century, this revolutionary development enhances understanding of light, dark matter, technology, universe.

This technology is based on the quantum physics. From the phrase "QUANTUM TECHNOLOGY" a new era comes which goes in depth. Here we are going to discuss about important topics such as Quantum Computing, Matter, Quantum physics and from this we get know about Lasers, Semiconductors, Transistors related to quantum technology. We all also know lot more about quantum realm, quantum simulation and discoherence are going to be a small part of large topic quantum technology.

Atlast, I conclude that realizing the drastic changes occurring in the universe because of the quantum world and knowing about Quantum Technology will give us answers for many questions.

Key words: *Quantum computing, Quantum physics, Quantum simulation, Discoherence, Dark matter.*

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ELECTROCHROMIC GLASS – MATERIALS AND DEVICES (SMART GLASS/DYNAMIC GLASS)

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Abstract:

The increase of interaction between man and machine made the display devices indispensable for visual communication. Thus the information to be communicated from a machine can be often in the form of color images. The most powerful Electrochromic display device (EcDD) is used for this purpose as it has seveal merits such as multicolor, high contrast, optical memory with no visual dependence on viewing angle. Several electrochromic materials are available from all branches of synthetic chemistry. In this paper we have tried to describe the fundamentals of such electrochromic materials and their use in EDD's. The most important examples from major classes of electrochromic materials are described. Also their use in both prototype and commercial electrochromic devices are given.

Key words: *Electrochromism, Electrochromic displays (EDD), Conducting polymers, Optoelectronic materials.*

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Paper ID: ICCIASH-2021/9E9

NATURAL LANGUAGE PROCESSING

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Abstract:

Natural language processing (NLP) is a major area of artificial intelligence research, which in its turn serves as a field of application and interaction of a number of other traditional AI areas. Natural Language Processing is a technique where machine can become more human and thereby reducing the distance between human being and the machine can be reduced. In simple sense NLP makes human to communicate with the machine easily. Natural Language Processing holds great promise for making computer interfaces that are easier to use for people, since people will hopefully be able to talk to the computer in their own language, rather than learn a specialized language of computer commands. There are many applications developed in past few decades in NLP. Most of these are very useful in everyday life for example a machine that takes instructions by voice. Natural language processing sometimes also called "computational linguistics," uses both semantics and syntax to help computers understand how humans talk or write and how to derive meaning from what they say. This field combines the power of artificial intelligence and computer programming into an understanding so powerful that programs can even translate one language into another reasonably accurately. This field also includes voice recognition, the ability of a computer to understand what you say well enough to respond appropriately.

Key words: *Algorithm, Artificial Intelligence, Neural Network, Process, Semantics, Syntax.*

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IMPACT OF TECHNOLOGY

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Abstract:

Technology is a gift of god. It is the mother of civilizations, of arts, of sciences. Technology has certainly changed the way we live. It has impacted different facts in life and redefined our way of living. Technology undoubtedly plays a very important role in our sphere of life. Several manual tasks are automated. Also, many complex and critical process are done with ease and higher efficiency. It has also made an impact in education field by making an easy way to impart knowledge for students. The use of technology made the process of teaching and learning in a more enjoyable way. Even though it has so many good benefits, it has some negative impacts also.

"TECHNOLOGY IS A USEFUL SERVANT, BUT A DANGEROUS MASTER"

POSITIVE IMPACTS:

- Made an impact in medical field making things easier.
- Less man power is required.
- Technology boosts business.
- Easier communication across the world.
- Ease of mobility
- Cost efficiency and high accuracy
- Versatile working
- More learning opportunities

NEGATIVE IMPACTS:

- Less data security
- Crime and terrorism
- Social disconnect
- Replacing humans
- Overreliance on gadgets
- Addiction

Key words: *Technology, knowledge, teaching and learning, Ease of mobility.*

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Paper ID: ICCIASH-2021/9E6

Emotional Recognition by Facial Expressions

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Abstract:

In the article there are presented the results of recognition of seven emotional states (neutral, joy, sadness, surprise, anger, fear, disgust) based on facial expressions coefficients describing elements of facial expressions registered for a six subjects were used as features. the features have been calculated for three dimensional face model. The classification of features were performed using k-NN classifier and MLP neutral network.

Key words: *facial expressions, emotion recognition, action units, computer version, k-NN, MLP.*

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Paper ID: ICCIASH-2021/974

ROLE OF AI IN FIGHTING COVID-19

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Abstract:

The first few months of 2020 have profoundly changed the way we live our lives and carry out our daily activities. Although the widespread use of futuristic robotaxis and self-driving commercial vehicles has not yet become a reality, the COVID-19 pandemic has dramatically accelerated the adoption of Artificial Intelligence (AI) in different fields. A virus such as COVID-19 which uses human body as a host must be treated untouched to avoid infections and further complications. AI and its applications like deep learning and advancement in the field of drone, robotics, mask and sensor technology helped in mitigating the spread of COVID-19. The COVID-19 symptom-high temperature, automatic detection is a very common application of AI. This technology is helpful for proper screening, tracking and predicting the current and future of the patients. The human-AI interaction can help in careful balance between microorganism class data and public health services data to overcome the pandemic situation. AI is used for the development of drugs and vaccines and reduces the workload of healthcare workers. This paper helps understand AI technology strategies and framework is highlighted in terms of bulk data computing, redacting infection threats, providing medical assistance and analysing diagnosis results. We conclude the paper with ideas on how the problems can be tackled in a better way and provided some suggestions for future works.

Key words: *Artificial Intelligence, data computing, COVID-19.*

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Paper ID: ICCIASH-2021/9E7

Hackers and Hacking

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Abstract:

This article is an examination of impact of hacking and hackers on our society. Computer hacking is perceived as a crime and is frequently motivated by economic interests such as the stealing of personal and credit information, or by ideological interests such as the disruption of a company's service or the acquisition of classified information from government or corporate sites. Hacking is basically expertise in any field. Hackers are classified as per working and as per knowledge. The ethical hackers come under white hat hackers. Ethical hackers use hacking techniques in order to provide security. They are legally authorized hackers. The most common hacking technique used is phishing. Since, there is a rapid growth in the number of attack, there is a need for people to learn ethical hacking concepts to secure themselves. These days, largely due to wide media, most people have a misconception of hackers as computer criminal. The tech community now distinguishes between hackers, who identify security flaws in order to improve computer systems and crackers (Ethical), who attempt to exploit those flaws to their advantage (Unethical). Though hacking has become a very upcoming technological subject from last few years. Now the doubts remains with the true intentions of the hacker.

Key words: *Ethical hackers, white hat hackers (legally authorized), Black hat hackers, ransomware, Firewall.*

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REQUIREMENTS OF PATENT RIGHTS FOR NEW INNOVATIONS

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Abstract:

A **patent** is a type of intellectual property that gives its owner the legal right to exclude others from making, using, or selling an invention for a limited period of years, in exchange for publishing an enabling public disclosure of the invention. In most countries, patent rights fall under private law and the patent holder must sue someone infringing the patent in order to enforce his or her rights. In some industries patents are an essential form of competitive advantage; in others they are irrelevant. The term *patent* usually refers to the right granted to anyone who invents something new, useful and non-obvious. A patent is often referred to as a form of intellectual property right, an expression which is also used to refer to trademarks and copyrights.

Patent law in India: The Patents Act 1970, along with the Patents Rules 1972, came into force on 20th April 1972, replacing the Indian Patents and Designs Act 1911. The Patents Act was largely based on the recommendations of the Ayyangar Committee Report headed by Justice N. Rajagopala Ayyangar One of the recommendations was the allowance of only process patents with regard to inventions relating to drugs, medicines, food and chemicals.

Advantages of patents:

- A patent gives you the right to stop others from copying, manufacturing, selling or importing your invention without your permission.
- You get protection for a pre-determined period, allowing you to keep competitors at bay.
- You can then use your invention yourself.

Disadvantages of patents:

- Details of the invention are publicly disclosed.
- The application process can be lengthy and time-consuming.
- A patent can be an expensive process even if it unsuccessful.
- A patent has to be maintained, and there are costs associated with that.
- Alternatively, you can license your patent for others to use it or you can sell it.

Patents can provide great value and increased returns to individuals and companies on the investment made in developing new technology. Patenting should be done with an intelligent strategy that aligns business interests to implement the technology with a wide range of options in the search for how, where and when to patent.

Key words: *Intellectual property, patent, legal rights, Patents Act.*

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A REVIEW ON INTERNET OF THINGS

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Abstract:

This article explains the concept of Internet of Things with the advanced level applications in our regular life and focusses on how are they developed. It describes the collaboration with human life and also their effect in changing human life. The paper overviews the advantages and also challenges of internet. It discusses the thought of origin of Big Data and Big Data Analytics. The paper in detail explains how Internet of Things are linked in several areas like robotics, Automobile Industry, Smart Homing systems, Smart Cities etc. with the opportunities they provide followed by scope of Internet of things.

Key words: *Internet of Things, Robotics, Automobile Industry, Smart Homing systems, Smart Cities, loT, Big Data, Analytics etc.*

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STUDY ON UNDERWATER ROBOTICS

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Abstract:

Numerous worldwide research and development activities occurred in underwater robotics, especially in the area of autonomous underwater vehicles (AUVs) during 1990. As the ocean attracts great attention on environmental issues, scientific and military tasks, the need for underwater robotic systems has become more apparent. Hence several efforts have been made in developing AUVs to overcome problems caused by the unstructured and hazardous ocean environment. Thus about 30 new AUVs have been built world wide in 1990s. This is the beginning for more advanced, practical and reliable AUVs which can be achieved in new millennium. The paper describes some key areas in the current state-of-the-art underwater robotic technologies and presents future research direction.

Key words: *Underwater robotics, underwater vehicles, environmental issues, AUVs, unstructured and hazardous ocean.*

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Enhanced gas sensing performance on surface functionalization of single walled carbon nanotubes

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Abstract:

Carbon nanotubes (CNTs) based gas sensors have invited potential research interest. Their high surface-to-volume ratio, change in electronic properties (I-V curves) on gas exposure and hollow structure make nano materials suitable for adsorption of gas molecules. Gas sensors based on carbon nanotubes provide an edge over the conventional metal oxide semiconductors due to high sensitivity, selectivity and low operation temperature. The chemical gas molecules NH_3 and NO_2 are toxic but unavoidable in the air. Monitoring these toxic gas molecules using CNT based gas sensors is of great importance especially in the present scenario when lung health has taken a forefront.

In the present study, the gas sensing properties of Single Walled Carbon Nanotubes (SWNT) have been investigated. The change in resistance of Pristine SWNT sensor has been studied for different concentrations of NO_2 and NH_3 ranging from 0.5 ppm to 20 ppm. For improvement in response and selectivity, gas sensing has been also studied on SnO_2 functionalized SWNT sensor for same gaseous molecules. The results for pristine SWNT and SnO_2 functionalized SWNT (hybrid nanostructure) have been compared for their sensor response. Decoration of CNT with a functional group eases its uneven properties and agglomeration resulting in a better response.

Key words: *Carbon nanotubes, Pristine and Functionalized single walled carbon nanotubes, Gas sensors, Responsivity.*

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Paper ID: ICCIASH-2021/9E1

Development of Plastic roads in India

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Abstract:

There are many ways of laying roads in India today mainly talking about laying roads by plastic in India Was introduced by rajagopal Vasudevan in 2001at Madurai (Tamil Nadu) (India).

At first he laid an experimental road on Thyagaraja University campus. He was working as a professor which game and marvelous result the roads were undamaged for 10 decades (10years)

Easy doesn't need any new missionary for every kilo of stone 50 grams of bitumens is used and 1/10th of this is plastic waste this reduced amount of bitumen. Being used waste of plastic such as carry bags polythene covers thermocol ect. Shredded into sizes 1.6mm,2.5mm the granite stone around 170°c immediately added waste of plastic in just 30 seconds and now it's ready to construction road.

He hand over the project of plastic road to the government in year 2006

About11States are laying the plastic roads (there are Tamil Nadu, Andhra Pradesh, Kerala, Karnataka Goa, Maharashtra, Madhya Pradesh, Delhi, Himachal Pradesh, Jharkhand, Meghalaya).by laying Plastic Roads we can protect our environment.

Key words: *Child, person, area.*

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Paper ID: ICCIASH-2021/9F6

HIGH ALTITUDE AERONAUTICAL PLATFORMS (HAAPS)

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Abstract:

This article examined how airborne platforms- airships, planes, helicopters or some hybrid solutions which could operate at stratospheric altitudes for significant periods of time, be low cost and be capable of carrying sizable multipurpose communications payloads We intend 10 confront areas for the research community to track. Today global communications infrastructures of landlines, cellular towers and satellites are inadequately equipped to support the increasing worldwide demand for faster, better and less expensive service. Radio makes it possible to have communication "without wires." This is a highly attractive proposition for mobile personal communications; it is increasingly an economic alternative to traditional wired phone system and is a potential technology for high-speed Internet access. But in the terrestrial environment, radio signals are subject to scattering and multipath effects that limit the quantity of information possible to transmit in given bandwidth, as well as the distances over which it can be communicated. In cellular and **Personal Communication Systems (PCS)** radio coverage is deliberately restricted further to allow for frequency reuse.

As a consequence, terrestrial wireless networks comprise numerous antenna towers, base stations, wired or microwave links and mobile switching centres, all dispersed over wide geographical areas. Satellites can provide wireless coverage with much less terrestrial infrastructure, but only by introducing considerably problems of their own. Geosynchronous satellites require expensive and bulky user terminals and introduce large signal delay because of their great distance. Non-geosynchronous satellites, because of their motion with respect to points on the ground, greatly increase system complexity. Proposed **High-Altitude Aeronautical Platforms (HAAPS)** are an intriguing alternative. From a communications perspective, they would have many advantages over both their terrestrial and satellite counterparts. If **HAAPs** prove to be reasonably stable, reliable and not too costly, they will offer considerable opportunities for wireless services provision and introduction of innovative communications concepts such as cell scanning and stratospheric radio relay.

Key words: *HAAPS, HALO, Onboard equipment, Communication pod.*

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Paper ID: ICCIASH-2021/9D3

Biometric Authentication Systems Challenges and Future Trends

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Abstract:

Authentication is the key parameter to speak the truth of an attribute claimed by the real entity. There are several ways to make authentication more robust and biometric is one among them. From the past decades, Biometric technology is widely adopted and accepted everywhere to authenticate an individual's identity. Also the adopted technology overcomes the limitation faced by the traditional authentication processes such as knowledge-based issues including password and token for the authentication of an individual.

This paper makes a comprehensive study of existing biometric methodologies and their usage. It also presents the motivation for adopting biometric in current situations. In addition to this, it also makes an attempt to talk on the technical and security related issues concering biometric systems.

Key words: *Biometrics, authentication, password, security.*

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ANOTHER PERSPECTIVE OF INTERNET OF THINGS

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Abstract:

Internet of Things (IOT) is fast becoming a disruptive technology business opportunity, with standards emerging primarily for wireless communication between sensors, actuators and gadgets in day-to-day human life, all in general being referred to as "Things". This offers the capability to measure for understanding environment indicators. IOT as envisioned is billion sensors connected to the internet through the sensors that would be generate large amount of data which need to analysed, interpreted and utilized. Context aware capturing enables modelling, interpreting and storing of sensor data which is linked to appropriate context variable dynamically. Building or home automation, social smart communication for enhancement of quality of life, that could be considered as one of the application of IOT where the sensors, actuators and controllers can be connected to internet and controlled. This paper introduces the concept of application for internet of things and with the discussion of social and governance issues that arise as the future vision of internet of things.

Key words: *Monitoring, Internet of Things, Temperature sensors, Security, Radiofrequency identification.*

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EVOLUTION OF VIDEO GAMES

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Abstract:

The history of video games began in the 1950s and 1960s as computer scientists began designing simple games and simulations on main frame computers. In this project of ours, we are going to present you, how the gaming industry from the mid20th century till the early 21st century, has evolved in terms of software, hardware, devices, consoles and many more aspects. The early 1970s brought the first consumer-ready video game hardware: the first home video game console. By the mid-1970s, low-cost programmable microprocessors replaced the discrete transistor-transistor logic circuitry of the early hardware, and the first ROM cartridge-based home consoles arrived. Coupled with rapid growth in a golden age of arcade video games with titles such as Space- invaders and Pac-Man, the home console market also flourished. Nintendo released its Nintendo Entertainment System in 1985. The latter part of the 1980s and early 1990s saw video games driven by improvements and standardization in personal computers. The early 1990s saw two major shifts in technology, the introduction of optical media via CD-ROMs, and the ability to perform real-time polygonal 3D graphics from further advancements in computer microprocessors. while Sony used both in its fledgling PlayStation console line, pushing Sega out of the console hardware market while diminishing Nintendo's role. By the late 1990s, the internet also gained widespread consumer use, and video games began incorporating online elements. Microsoft entered the console hardware market in the early 2000s with its Xbox line. From the 2000s and into the 2010s, the industry has seen a shift of demographics as mobile gaming on smartphones and tablets displaced handheld consoles, and casual gaming had become an increasing larger sector of the market. In 2000s and 2010s saw the growth of independent game development. Hardware and software technology continued to drive improvement in video games, with support for high-definition video at high framerates, and for virtual and augmented based-reality games.

Key words: *Video games, virtual, ROM, technology.*

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Paper ID: ICCIASH-2021/9H1

USE OF EXO-SKELETON IN INDIAN ARMY

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Abstract:

A new era in the Indian Army is the Exo-Skeleton suits. Exo-Skeletons are gadgets worn as harness by the soldiers. Exo Skeletons can be worn over a regular uniform or combat gear so that a soldier's strength is fully augmented and this helps in ensuring soldiers who are on patrol duty in high altitude terrains wear leg-gear which assists in walking in the snow. This reduces fatigue and exhaustion which is faced by the soldier in a thin oxygen climate or the Indian soldiers, such futuristic technology can help in moving around in the minus 30-40 degrees Celsius temperature along the Line of Actual Control. Exo-Skeleton is also known as power armour, Exo-frame and powered by system of motors, hydraulics or pneumatics that delivers the least part energy to the limbs. The main function of the suit is to assist the wearer by boosting their strength and endurance. With these Exo-skeletons soldiers can survive in any kind of the survival phase irrespective of the climate conditions. Soldiers can lift any weights at ease with Exo-Skeletons. This is the next big thing happening in the future of the Indian Army and it's just a beginning.

Key words: *Exoskeleton, era, line of actual control.*

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Paper ID: ICCIASH-2021/9G2

SMART CITY: AN UNSTOPPABLE PROCESS OF EFFORTLESS AND ENDLESS REINVENTION

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Abstract:

Most of the world's population today lives in cities. By 2030, the population of the cities around the world is expected to grow from 3.3 billion to 5 billion people. In Israel, about 6 million people live in urban areas.

There are many advantages in promoting smart cities in terms of national benefits: creating competitiveness, promoting the business sector, improvement of living standards, proper utilization of resources, and the like. There are examples of smart cities in the world, and a lot can be learned from their experience and achievements.

The main categories that define smart cities include the quality of the environment, energy, water and wastewater, transportation and traffic, information and communication systems, quality of life, government, economics, human resources, housing and land use, homeland security, and emergency preparedness.

Key words: *Mobility Society Quality of Life, Environment, Economy Government.*

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IMPORTANCE OF CYBER SECURITY IN THE DIGITAL LIFE

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Abstract:

Cybersecurity encompasses a broad range of practices, tools and concepts related closely to those of information and operational technology (OT) security. Cybersecurity is distinctive in its inclusion of the offensive use of information technology to attack adversaries. Use of the term "cybersecurity" as a key challenge and a synonym for information security or IT security confuses customers and security practitioners, and obscures critical differences between these disciplines. Recommendation for security leaders is that they should use the term "cybersecurity" to designate only security practices related to the defensive actions involving or relying upon information technology and/or OT environments and systems. Within this paper, we are aiming to explain "cybersecurity" and describe the relationships among cybersecurity, information security, OT security, IT security, and other related disciplines and practices, e.g. cyber defence, related to their implementation aligned with the planned or existing cybersecurity strategy at the national level. In the case study given example of The National Cybersecurity Strategy of the Republic of Croatia and action plan is presented and elaborated. The strategy's primary objective is to recognize organizational problems in its implementation and broaden the understanding of the importance of this issue in the society.

Key words: *Action plan, cyberattackcybercrimecyberdefencecyberoperationscybersecuritynational cybersecurity strategy people-centric security.*

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Paper ID: ICCIASH-2021/9G0

MIND READING COMPUTER: A COORDINATION OF HUMAN PSYCHOLOGY AND COMPUTER TECHNIQUES

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Abstract:

Mind reading is a way to detect or infer other's mental states. The simplest way for mind reading can be done by simply seeing and understanding the facial expression. For example, a smile can give us an expression of happiness. But now it may be possible that a computer might understand the mental states of a person.

The key to this scheme is the electroencephalograph, a device used by medical researchers to pick up electrical currents from various parts of the brain. If we could learn to identify brain waves generated by specific thoughts or commands, we might be able to teach the same skill to a computer.

Key words: *Mind reading, Facial affect detection, Facial electromyography, Electroencephalography, Galvanic Skin response, Futuristic headband.*

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Big Data Analytics

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Abstract:

In the information era, enormous amounts of data have become available on hand to decision makers. Big data refers to datasets that are not only big, but also high in variety and velocity, which makes them difficult to handle using traditional tools and techniques. Due to the rapid growth of such data, solutions need to be studied and provided in order to handle and extract value and knowledge from these datasets. Furthermore, decision makers need to be able to gain valuable insights from such varied and rapidly changing data, ranging from daily transactions to customer interactions and social network data. Such value can be provided using big data analytics, which is the application of advanced analytics techniques on big data. This paper aims to analyze some of the different analytics methods and tools which can be applied to big data, as well as the opportunities provided by the application of big data analytics in various decision domains.

Key words: *Datasets, Valuable, Analytics.*

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INTRA-FAMILY RELATIONSHIP IN KAMALA MARKANDAYA'S NECTAR IN A SIEVE

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Abstract:

Shashi Deshpande is obviously the first woman in Karnataka to write fiction in English. Her novels generally attempt to explore the woman's psyche. She portrays the problems of the middle class educated women in her novels. Among the woman novelists her novels centre on women characters. She gives importance to family relationships. East-West encounter, rural life, poverty and hunger and tradition versus modernity human relationship and intra-family relationship are recurrent themes in her novels and much of her fiction is concerned with arresting the Indian mind in its conflict between the old and the new; the traditional values and the urge for westernized modernity. This paper highlights how intra-family relationship is portrayed in Kamala Markandaya's Nectar in a Sieve.

Key words: *Women, intra-family relationship, unemployment, poverty etc.*

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Paper ID: ICCIASH-2021/9A7

A STUDY ON SENSOR TECHNOLOGY

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Abstract:

The main objective of the sensor technology is to know about what actually a sensor. There are different types of sensors and some of the important applications of sensors in our daily life. sensor is an electronic device, which detects and response to some type of changes from physical environment and transmits this information into human readable display. Sensor is same as sense organs in our body, like sense organs. Sensors detect physical changes like light, heat, sound, touch. There are various number of sensors, which we use different places like shopping malls, mobile phones, cars etc., but generally a sensor is basically made up of some basic electronic units like sensing unit, processing unit, transceiver unit and power unit, which helps in sensing, Processing, transmitting data etc., Based on sensor application. sensors are advancement in technology. Sensors made our life easier, convenient, secure and efficient by reducing human efforts, at affordable cost, by reducing human risks and accidents and by making life comfortable.

Key words: *Sensor technology, Physical Environment, Secure, Efficient, Basic units, Advancement.*

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Paper ID: ICCIASH-2021/9D1

A STUDY ON EDGE COMPUTING

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Abstract:

Cloud computing has revolutionized how people store and use their data. However, there are some areas where cloud is limited; latency, bandwidth, security and a lack of offline access can be problematic. To solve this problem, users need robust, secure and intelligent on-promise infrastructure of edge computing. When data is physically located closer to the users to connect to it, information can be shared quickly, securely and without latency.in financial services, gaming, health care and retail, low levels of latency are vital for a great time, combine cloud with edge infrastructure.

Benefits:

1.By edge computing you can also solve the latency problem. edge computing on devises ensures that only non-critical data can be acted upon immediately.

2.By edge computing we can say that there us an additional layer of security too, because most of the data from it devises does not traverse though the network, instead at the point of creation itself it is processed.

Drawbacks:

1.One drawback of edge computing is that the addition of more smart devices into the edge servers and the devices that have robust built-in computers, there are new opportunities for malicious actors to compromise these devices.

Key words: *Cloud computing, edge computing, security.*

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ARTIFICIAL INTELLIGENCE: A REVIEW

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Abstract:

Engineering science refers to the simulation of human intelligence in machines that unite programmed to suppose like humans and mimic their actions. The term is also applied to any machine that exhibits traits associated with somebody's mind like learning and problem-solving.

The simplest characteristic of engineering science is its ability to rationalize and take actions that have the best chance of achieving a specific goal. A subset of engineering science is machine learning, that refers to the thought that computer programs can automatically learn from and adapt to new info whereas not being motor-assisted by humans. Deep learning techniques modify this automatic learning through the absorption of big amounts of unstructured info like text, images, or video. Engineering science is based on the principle that human intelligence are made public in associate extremely technique that a machine can merely mimic it and execute tasks, from the foremost simple to those that unit even a great deal of advanced. The goals of artificial intelligence embrace mimicking human psychological feature activity. Researchers and developers among the sphere unit or making amazingly speedy strides in mimicking activities like learning, reasoning, and perception, to the extent that these are concretely made public. Some believe that innovators would possibly presently be ready to develop systems that exceed the aptitude of humans to seek out out or reason any subject. but others keep sketical as a result of all psychological feature activity is laced with value judgments that unit subject to human experience.

As technology advances, previous benchmarks that made public artificial intelligence (AI) become superannuated. For example, machines that calculate basic functions or acknowledge text through optical character recognition don't seem to be to any extent further thought of to embody engineering science, since this operation is presently taken for granted as associate inherent computer operate. AI is endlessly evolving to be told many alternative industries. Machines unit wired using a cross-disciplinary approach supported arithmetic, computer science, linguistics, psychology, and more.

Key words: *Engineering science, human intelligence, artificial intelligence.*

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Paper ID: ICCIASH-2021/9E5

Internet safety insurance for kids

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Abstract:

In today's world, we have access to a vast amount of information online. While the Internet is a great resource and can promote world-changing communication and collaboration through research and knowledge sharing and it also presents safety and security risks. Threats to children's internet safety invasions of privacy, cyberbullying, sexting and harassment. Options to protect your children include parental controls, apps and tracking software. But the most effective way to keep your kids safe is to talk with them about online risks, how to avoid them and how they can come to you when something goes wrong. Internet safety for kids depends on parents being aware of online risks and understanding how to help their children and teens avoid them.

More than half of the total population of children and teenagers has access to the internet around the world. They socialize in online games or on smartphones just as they would on a playground. They live largely in a digital community. But like any community, there are risks and dangers. Especially during these covid times where kids need to use internet to connect with theirs.

Now here are few tips on how to make sure your child is using the Internet safety and responsibly.

- Set guidelines and/or parental controls. Use the resources you have available to disable certain features and block certain websites. Knowing what your kids are looking at is a very important first step in keeping them safe.
- Talk to them. Have honest conversations about the dangers of unsafe Internet use and take the time to educate them. Even if you've told them 100 times before, tell them again. They should never talk to strangers or disclose personal information about themselves or your family, even if they think the person they are talking to is a friend.
- Outline safe Internet use. After you've set the house rules and taken time to talk to your children, it is time to outline safe Internet usage with them. Talk to them about the types of behaviors that are appropriate on social media and what is not. Some parents like to create a contract with their child, so the rules and consequences are clear.

These are a few ways to help children against the dark side of the internet as you all know everything has its good and bad points. but that doesn't mean we don't allow them access to internet because in the current world internet is crucial which is important for current generation.

Key words: *Child, person, area.*

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WIRELESS CHARGING TECHNIQUES IN DEVELOPMENTS OF COMMERCIAL PRODUCTS

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Abstract:

Wireless charging is a technology of transmitting power through an air gap to electrical devices for the purpose of energy replenishment. The recent progress in wireless charging techniques and development of commercial products have provided a promising alternative way to address the energy bottleneck of conventionally portable battery-powered devices. However, the incorporation of wireless charging into the existing wireless communication systems also brings along a series of challenging issues with regard to implementation, scheduling, and power management. In this article, we present a comprehensive overview of wireless charging techniques, the developments in technical standards, and their recent advances in network applications. In particular, with regard to network applications, we review the mobile charger dispatch strategies, static charger scheduling strategies and wireless charger deployment strategies. Additionally, we discuss open issues and challenges in implementing wireless charging technologies. Finally, we envision some practical future network applications of wireless charging.

With mobile phones becoming a basic part of life, the recharging of mobile phone batteries has always been a problem. The mobile phones vary in their talk time and battery stand by according to their manufacturer and batteries. So, the concept of wireless charging has been evolved.

Key words: *Low, change, the, tube.*

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Paper ID: ICCIASH-2021/9F7

Face Detection Technology: A New method to change the way we live.

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Abstract:

Face detection can be regarded as a specific case of object-class detection. In object-class detection, the task is to find the locations and sizes of all objects in an image that belong to a given class. Examples include upper torsos, pedestrians, and cars. Face-detection algorithms focus on the detection of frontal human faces. It is analogous to image detection in which the image of a person is matched bit by bit. Image matches with the image stores in database. Any facial feature changes in the database will invalidate the matching process. A reliable face-detection approach based on the genetic algorithm and the eigen-face technique: Firstly, the possible human eye regions are detected by testing all the valley regions in the gray-level image. Then the genetic algorithm is used to generate all the possible face regions which include the eyebrows, the iris, the nostril and the mouth corners. Each possible face candidate is normalized to reduce both the lighting effect, which is caused by uneven illumination; and the shirring effect, which is due to head movement. The fitness value of each candidate is measured based on its projection on the eigen-faces. After a number of iterations, all the face candidates with a high fitness value are selected for further verification. At this stage, the face symmetry is measured and the existence of the different facial features is verified for each face candidate.

Key words: *Facial motion capture, Photography, Facial recognition, Marketing, Emotional Inference, Lip Reading*

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Blue Brain Technology: An Overview of World's First Artificial Brain

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Abstract:

Today scientists are in research to create an artificial brain that can think, respond, take decision, and keep anything in memory. The main aim is to upload human brain into machine. So that man can think, take decision without any effort. After the death of the body, the virtual brain will act as the man. So, even after the death of a person we will not loose the knowledge, intelligence, personalities, feelings and memories of that man, that can be used for the development of the human society. Technology is growing faster than every thing. IBM is now in research to create a virtual brain, called "Blue brain". If possible, this would be the first virtual brain of the world. IBM. in partnership with scientists at Switzerland's Ecole Polytechnique Federale de Lausanne's (EPFL) Brain and Mind Institute will begin simulating the brain's biological systems and output the data as a working 3-dimensional model that will recreate the high-speed electro-chemical interactions that take place within the brain's interior. These include cognitive functions such as language, learning. perception and memory in addition to brain malfunction such as psychiatric disorders like depression and autism. From there, the modeling will expand to other regions of the brain and, if successful, shed light on the relationships between genetic, molecular and cognitive functions of the brain.

Key words: *Artifial brain, Virtual brain, Mind institute, High speed electro chemical interactions., brain's interior, cognitive functions, brain malfunction, autism.*

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Paper ID: ICCIASH-2021/9G1

RESEARCH ON OPERATIONAL MODEL OF PUBG

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Abstract:

This paper mainly studies operational model of the famous Computer Games – Player Unkown's Battle Grounds (PUBG), be aimed at human beings in the game or human beings regarded as intelligent robots, including the influence of objective factors and subjective factors on the game results, linear programming model is established for the various factors and the game results, using Excel software, realized in different situations the relationship between various factors and the result of game problem solving and plotting table. To solve the problem 1: the paper find out the trend of the safety area and the solving and plotting table. To solve the problem 2: the paper find out the trend of the safety area and the random coverage circle of the safety area through statistical data and analyze the data, and then push it to random coverage circle of the safety area through statistical data and analyze the data, and then push it to game model based on the analysis of the distance between two sides, the judgement of the azimuth and the random running and attacking each other caused by the psychological state of the bullet avoidance, and then, according to experience, how to perform micro manipulation to improve the hit rate. To solve the problem 3: the paper make KDA as a measure of bureau of the game in the best performing team and the best individual (MVP) of the key indicators, through the calculation of KDA for the game and the individual scores and rankings, distribution to determine the winners of the prize gaming contest.

Key words: *Intelligent robots, Objective factors, Subjective factors, Statistical data, Psychological state, Micro Manipulation, Bureau.*

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MULTISIGNATURE SECURITY PLATFORM FOR BITCOIN

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Abstract:

A purely peer-to-peer version of electronic cash would allow online payments to be sent directly from one party to another without going through a financial institution. Digital signatures provide part of the solution, but the main benefits are lost if a trusted third party is still required to prevent double-spending. We propose a solution to the double-spending problem using a peer-to-peer network. The network timestamps transactions by hashing them into an ongoing chain of hash-based proof-of-work, forming a record that cannot be changed without redoing the proof-of-work. The longest chain not only serves as proof of the sequence of events witnessed, but proof that it came from the largest pool of CPU power. As long as a majority of CPU power is controlled by nodes that are not cooperating to attack the network, they'll generate the longest chain and outpace attackers. The network itself requires minimal structure. Messages are broadcast on a best effort basis, and nodes can leave and rejoin the network at will, accepting the longest proof-of-work chain as proof of what happened while they were gone.

Key words: *bit, block chain ,BTC ,cryptography ,double spend,hashrate,P2P,mining,signature,wallet*

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Paper ID: ICCIASH-2021/9B4

USES OF ARTIFICIAL INTELLIGENCE IN E – COMMERCE

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Abstract:

The present study, insights on the role of artificial intelligence in e commerce. Artificial intelligence has the powerful ability to acquire and analyze large volumes of data and provide decisions for action. E-commerce is now adopting this technology to identify patterns based on browsing, purchase history, credit checks, account information etc. This data collected then form the basis of creating customized recommendations for each customer. Google and Microsoft are already investing into new AI initiatives. Many e-commerce businesses have started implementing different forms of AI to better understand their customers and provide an enhanced customer experience. Last few years can be dedicated to e-commerce era with its rapid expansion. At the same time the technological advances gave rise to different platforms which can be useful to update the trends and capture the market needs. Hence this study focuses on the uses of Artificial intelligence in e commerce business.

Key words: *Artificial intelligence, E-commerce, Automation, Business, Technology, Machine Learning.*

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Paper ID: ICCIASH-2021/9B0

EMERGENCY MANAGEMENT IN USA

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Abstract:

Decision makers in emergency management agencies must be able to access large volumes of highly current geospatial information to effectively respond to disaster situations and ensure stronger collaboration between agencies. Current photogrammetic solutions using manned aircraft for data acquisition and post-mission processing are limited in their ability to meet these requirements. The use of unmanned aerial system (UAS) technology during acquisition, combined with the state of the art techniques for automated data processing and delivery, promise the ability to meet the requirements of decision makers. This paper discusses a number of innovative components that form such a system: a modular image acquisition payload equipped with radio communications suitable for UAS missions, two strategies for accurate estimation of camara poses, a fully automated and real-time ortho-mosaic production system, and capabilities and help to save human lives by providing information and intelligence to disaster managers in a safe, timely, and critical manner.

Key words: *Innovation, Collaboration, Communication, Capabilities, Response.*

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Paper ID: ICCIASH-2021/9A5

STUDY OF THERMODYNAMICS: ENERGY SYSTEM

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Abstract:

Thermodynamics could be a relatively recent natural philosophy that was born with the calorimetry and thermometry experiments: so heat remains the central concept in relation with other styles of energy. The coupling between various forms is important and associated with conversion process. The primary conversion process that was analysed because the thermo mechanical one, at the time of Carnot. Equilibrium thermodynamics was fruitful in reference to the efficiency concept, to qualify engines. Since that point, mass and warmth transfers studies are strongly developed still because the second law aspects of thermodynamics. It results new appraisal for energy system and processes, relevant of a real thermodynamics approach. This was initiated by Onsager at the start of the 20th century by analysing the relation between fluxes and forces from a general, but a linear point of view. More recently, it had been developed through a lumped analysis for systems by Chambadal and Novikov in 1957. It had been rediscovered in1975 by Curzon and Ahlborn. And since this work, lots of books and publications are proposed within the literature. A review of them is proposed here, on the idea of a synthesis because of the dearth of place. The author's works are analysed and compared to the literature too. It results some original remarks and proposal relative to the obtained results: Comparison of entropy ratio method to entropy to flux method, Comparison of endoreversible case to irreversible case, comparison of adiabatic and non-adiabatic system, comparison of constrained and non constrained system, Main consequences of those comparisons are given, and future perspectives evoked on the most systems categories. Conclusion is that FDOT (Finite Dimensions Thermodynamics) appears as a promising tool to be enlarged within the future.

Key words: *Energy system, Thermodynamics optimization, Rediscovered, Entropy, Synthesis.*

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Paper ID: ICCIASH-2021/9D2

Role of Cyber Security in Today's Scenario

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Abstract:

Cyber Security is generally used as a substitute with the terms Information Security and Computer Security. This work involves an introduction to Cyber Security and history of Cyber Security is also discussed. This also includes Cyber Security that goes beyond the limits of the traditional information security to involve not only the security of information tools but also other assets, involving the person's own confidential information. In Computer security or Information security, relation to the human is basically to relate their duty in the security process. In Cyber Security, the factor has an added dimension, referring humans as the targets for the cyber-attacks or even becoming the part of cyber- attack unknowingly. This also involves the details about the cybercriminals and cyber risks going ahead with the classification of Cybercrimes which is against the individual, property, organization and society. Impacts of security breaches are also discussed. Countermeasures for computer security are discussed along with the Cyber security standards, services, products, consultancy services, governance and strategies. Risk Management with the security architecture has also been discussed. Other section involves the regulation and certification controls, recovery and continuity plans, and Cyber security skills.

Key words: *Cyber Security, Information Security, security of information, Cybercrimes, Risk Management, Security Architecture.*

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Paper ID: ICCIASH-2021/9B1

LOW-COST HOUSING

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Abstract:

The scope of the study covers national perspectives on housing for economically weaker sections of the society, defining the problems and efforts that should be made for solving the existing housing technologies. Housing is one of the fundamental needs of any living being. Whether, rich or poor,all of us need a place to live. But if we look at the cost of purchasing a house across the country and metros in particular, it's well beyond the affordable limit of the majority. In a society where the majority cannot afford a place of their own because of the skyrocketing property prices, low cost housing assumes crucial importance. Moreover, the Government of India has a vision "Housing for all by the year of 2022". Cost effective dose not mean low quality and low durability meant only for low-income or poor sections.

This paper also deals with the efficiencies of low cost housing and use of new materials and their experimentation on effected areas and also the introduction of paper and card board as a building material. This paper is based on reporting review.

Key words: *Low-cost, house, affordable,*

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Chemistry of Nanoreactors to Create Unique Chemical Environment

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Abstract:

This review aims to summarise the broad range of nanoreactors that have been constructed from artificial and biological materials using covalent and non-covalent approaches. The main centre of attention is on self-assembled systems that are variable in size from a few nanometers to micrometers. The major advantage of self-assembled nanoreactors, is their ability to mimics a cell easily and contain a cavity which provide surface area to take place a chemical reaction. This account also summarises their synthesis, characteristic features, and important biological applications in the field of Diagnosis, theragnostics and therapeutics. Block copolymers have inherent ability to self-aggregate in well-defined micelles which show excellent ability as nanoreactors to synthesize Au NPs. A fine grouping of micelle and nanoparticles makes them fine target delivery vehicles in various biological systems but the primary requirement to achieve the desired results in case of chemotherapy, cytotoxicity and other biological applications, is to use them in a highly precise manner. Hollow mesoporous @M/CeO2 (M=Au, Pd and Au-Pd) nano-spheres can be used as effective nanoreactors with superior catalytic activity and stability for reduction of 4- nitrophenol due to their hollow mesoporous structural features.

Polymersomes Nano reactors are small sized chemical reactors predominantly used in the field of nanotechnology and nano biotechnology, known for their high activities due to their large surface area. However, their blend is complicated in term of stability and reproducibility. But chemists can synthesize artificial nano reactors to control chemical reactions. The rise of nanotechnology has independently developed the new branch of chemistry which deals with different types of synthetically generated nano-reactors i.e., nano-pores, hollow nanoparticles, nano-holes, and tubular nano structures. nanoreactors change the basic chemical nature of molecules and an element within them and alter how they behave in chemical reactions. They can be used not only to speed up a reaction, but also to gain new fundamental understanding of a chemical system. Nanoreactors are the result of new and exciting research that provides vessels that carry out chemical reactions on a nanoscale.

Key words: *nano, change, speed, system.*

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Paper ID: ICCIASH-2021/9C6

PROJECT LOON: THE FLYING INTERNET FOR EVERYONE

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Abstract:

Internet has been the biggest revolution of last few decades. It would not be wrong to say that internet has dissolved the notion of physical boundaries and we now belong to global environment, enabling us to communicate with the people living far away from us in the matter of seconds and with extreme ease.

It can be said that internet has become an integral part of our modern lives playing vital role in numerous fields. Be it internet banking, seeking job, buying or selling a product, getting entertainment or getting education online with the help of reference books, study-oriented material and blogs filled with views and comments of expert"s of the domain, everything from pin to plane is available on the internet. In short, internet has brought information to our doorstep. But do all these facilities available to one and all? Certainly, the answer is, No'. Two-third of the world population comprising mostly the rural and remote areas, does not yet have access to internet. Consider yourself living without your smart phones and iPads for a week, certainly frightening, isn't it?

Project Loon is an ingenious initiative by the Google to provide a wireless network to remote areas thus providing Internet access to 4.5 billion people who are currently offline. This technology involves the use of specially designed helium balloons launched in the stratosphere, which work in coordination with each other and the ground antenna based on complex algorithms thus aiming to provide a cost effective yet reliable and environment-friendly way to beam the Internet from the sky to places lacking it. This preternatural phenomenon thus aims at innovating the connectivity worldwide.

Our main theme on this article is we came across few months ago the news that Google is 'winding down' work on Project Loon, an ambitious, multi-year project which aimed to spread internet access across the globe via high-altitude, self-navigating balloons. Alphabet The Google's parent company is to shut down Internet balloon company Project Loon. The company announced the news after nine years in development, saying that the project hadn't found a way to lower costs enough to build a long-term, sustainable business. Why and what consequences made Google to shut down "Project Loon" are to be studied in this.

Key words: *Internet, Reliable, world-wide connectivity, Integral part of Modern world.*

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Voice Assistant

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Abstract:

What is AI & ML?

Artificial intelligence (**AI**) is the simulation of human intelligence processes by machines, especially computer systems. Specific applications of AI include expert systems, natural language processing, speech recognition and machine vision. The basic objective of AI is to enable computers to perform such intellectual tasks as decision making, problem solving, perception and understanding human communication.

Machine learning (**ML**) is a type of artificial intelligence (AI) that allows software applications to become more accurate at predicting outcomes without being explicitly programmed to do so. Machine learning algorithms use historical data as input to predict new output values. Machine learning allows the user to feed a computer algorithm an immense amount of data and have the computer analyse and make data-driven recommendations and decisions based on only the input data.

Overview of Research

A **voice assistant** is a digital assistant that uses voice recognition, language processing algorithms and voice synthesis to listen to specific voice commands and return relevant information or perform specific functions as requested by the user. It uses Artificial Intelligence (AI) and Machine learning (ML) and does tasks such as making calls, sending text messages, looking things up online, opening apps, setting appointments on our calendars and many more.

Key words: *Artificial intelligence, Machine learning, voice recognition.*

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UNEMPLOYMENT: A CRITICAL VIEW

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Abstract:

Unemployment refers to situation in which the workers who are capable of working and willing to work do not get employment. Types of unemployment are Frictional unemployment, Structural unemployment. Cyclical or Keynesian unemployment, Seasonal Unemployment. unemployment in frictional occurs when a person move from one job to another next is Structural unemployment arises when the qualification of a person is not enough to meet his job responsibilities and it also arises when salary offered to a person falls short of the minimum wage that can be paid for the concerned job. When economy is in need of low workforce the cyclical or demand deficient unemployment occurs. So, the demand for labor increases with the economy in the growth phase and again. When economy passes through depression, demand for labor decreases and the extra workers are released as the unemployment labor force and Seasonal unemployment occurs when an occupation is not in demand at certain seasons. Finally, causes of unemployment are High Population Growth, Absence of Employment Opportunities, Seasonal Employment, Joint Family System, Increasing Number of Students from India Universities, Slow Developing of Industries, Insufficient Rate Of Economic Progress.

Key words: *Causes of unemployment, Types of unemployment, Seasonal employment, Population, Rate of economic progress.*

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IMPORTANCE OF 3D PRINTING TECHNOLOGY

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Abstract:

Additive manufacturing, often referred to as 3D printing. It has the potential to vastly accelerate innovation, compress supply chains, minimize materials and energy usage, and reduce waste. Originally developed at the MIT in 1993. 3D printing technology forms the basis of Z Corporation's prototyping process: 3DP technology creates 3D physical prototypes by solidifying layers of deposited powder using a liquid hinder. By definition 3DP is an extremely versatile and rapid process accommodating geometry of varying complexity in hundreds of different applications and supporting many types of materials. Z Corp. Pioneered the commercial use of 3DP technology, developing 3D printers that leading manufacturers use to produce early concept models and product prototypes. Utilizing HDP technology, 2 Corp. Has developed 3D printers that operate at unprecedented speeds, extremely low costs, and within a broad range of applications. This paper describes the core technology and its related applications.

It is a new way of making products and components from a digital model. Like an office printer that puts 2D digital files on a piece of paper, 3D printer creates components by depositing thin layers of material one after another only where required, using a digital blueprint until the exact component has been created.

By eliminating production steps and using substantially less material, 'additive process could be able to reduce waste and save more than 50% of energy compared to today's "subtractive" manufacturing processes and reduce material costs by up us 90% The use of additive manufacturing can potentially benefit a wide range of industries including defence. Aerospace, automotive, biomedical, consumer products, and metals manufacturing.

Key words: *HDP Technology, 3D Printer, prototyping.*

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SIGNIFICANCE OF ELECTRIC VEHICLES

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Abstract:

Electric vehicle drives offer a number of advantages over conventional internal combustion engines, especially in terms of lower local emissions, higher energy efficiency, and decreased dependency upon oil. Yet there are significant barriers to the rapid adoption of electric cars, including the limitations of battery technology, high purchase costs, and the lack of recharging infrastructure. With intelligently controlled charging operations, the energy needs of potential electric vehicle fleets could be covered by existing German power plants without incurring large price fluctuations. Over the long term, electric vehicles could represent a sustainable technology path. In the short to mid-term, however, exceedingly optimistic expectations should be avoided, especially with respect to the reduction of greenhouse gas emissions. Electric vehicles as such will not be able to solve all current problems of transportation policy. Yet they may constitute an important component of a larger roadmap for sustainable transportation.

Key words: *Electric vehicle; EV adoption; incentives; public policy; implementation; best practice.*

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Paper ID: ICCIASH-2021/9C0

Smart Car Parking System

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Abstract:

In metropolitan cities, vehicle parking has become a major concern in all busy area and a good traffic system needs a good parking system. Different types of vehicle parking are applied worldwide namely Multi-level Automated car parking, Automated car parking system, Volkswagen can parking, vertical car parking etc, Parallel parking is challenge for all drivers say amateur or the experts. An detail a simple and precise multistage car-parking introduction, advantages, characteristics, etc. This paper gives the information to develop a reduced working model of a car parking system for parking 6 to 24 cars within a parking area of 32.17m^2. The chain and sprocket mechanism is used for driving the parking platform and a one fourth hp brake motor shall be implemented for powering the system and indexing the platform. The platform is fabricated to suit.

Objectives:

- To develop an intelligent, user friendly automated car parking system which reduces the manpower and traffic congestion.
- To offer safe and secure parking slots within limited area

Key words: *smart car, park-automated, fabricated.*

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Paper ID: ICCIASH-2021/9B5

APPLICATIONS AND FUTURE SCOPE OF ROBOTICS

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Abstract:

Robotics is the confluence of engineering and science that includes mechanical engineering, electrical engineering, computer science also it is no more an emerging field as it has evolved so much in the last 10 years and it is nearing an apex point. The exponential advancement in artificial intelligence (AI), machine leaning, robotics, automation are rapidly transforming industries and societies across the world. The way we work, the way we live and the way we interact with others are expected to be transformed at a speed and scale beyond anything we have observed in human history. This article looks at the promises, challenges and future research directions of these transformative technologies. Not only are the technological aspects investigated but behavioral, societal, policy and governance issues are reviewed as well. His research contributes to the ongoing discussions and debates about AI, automation, machine leaning and robotics.

Key words: *Confluence, Artificial Intelligence, Automation, Robotics, Machine Learning.*

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CHILD LABOUR AND EMPLOYMENT: AN OVERVIEW

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Abstract:

Child labor is widespread, and bad for development, both that of the individual child, and of the society and economy in which she, or he lives. If allowed to persist to the current extent, child labor will prevent the achievement of the Millennium Development Goals of halving poverty, and achieving Education for All. Nearly all of the world's governments have ratified international human rights conventions, which call for the elimination of child labor, and the provision of universal primary education. There have been laws brought up against child labour which states children below 18 years of age are not allowed to work in any kind of industries.

But then there have been several countries which are still working on this law! And to bring out success in providing quality education for children.

Key words: *Child labour, Employment, Human rights.*

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THE FUTURE OF CRYPTOCURRENCY

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Abstract:

The World of money and finance is transforming before our eyes. Digitized assests and innovative financial channels, instruments and systems are creating new paradigms for financial transaction and forging alternative channels of capital. Instead of relying on traditional financial institutions who verify and guarantee your transactions, Cryptocurrency transactions are verified by the user's computers logged into the currency's network. Since the currency is protected and encrypted, it becomes impossible to increase the money supply over a predefined algorithmic rate. All users are aware of the algorithmic rate. Therefore, since each algorithm has a roof limit, no cryptocurrency can be produced or "mined" beyond that. Though there are more than 1000 crypto currencies in the Market but Bitcoin is the most widely known and used cryptocurrency in the world. The current market capitalization of Bitcoin is just

Over $260 Billion. Bitcoin began operating in January 2009 and is the first decentralized cryptocurrency originally developed by Satoshi Nakamoto. The present study is an attempt to find out the trend in the prize of Bitcoin and analyse the future challenges in acceptance of cryptocurrency. For the purpose collected secondary data will be analysed with the help of software e-views to apply some tests like Unit Root Test to test the stationary of time series data and OLS to forecast the prices.

Key words: *Cryptocurrency, Bitcoin, Market Capitalization, Future, Unit Root Test, OLS, Time.*

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Driving license generation system: Its importance

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Abstract:

Driving licence generation system project report deals with all kind of drinking applicants details like name, father's name, age, telephone no, aadhar number, licence number and etc. It tracks all the details of an applicant which can be used for all purposes and all these will be available for future generation too. Our program will have the data of applicant offered by the government.

A driver's licence is used as a protocal measure by employers to determine whether a candidate applying for a driving position is quanlified. This check allows an employer to verify whether or not the potential employee has extensive moving violations. The Departing of Motor Vehicle (DMV) within each state maintains a database of state records for all motorists, including a chronological history of traffic violations. Employers use this report as a yardstick for deciding whether or not a candidate is a potential liability to the company.

Government provides licence card to the public for the people so that only well trained people can drive a vehicle.

Key words: *Chronological, Yardstic.*

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Paper ID: ICCIASH-2021/9A1

TECHNIQUES TO RECYCLE ELECTRICAL WASTE

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Abstract:

Electronic waste or e-waste is any broken or unwanted electrical or electronic appliance. E-waste includes computers, entertainment electronics, mobile phones and other items that have been discarded by their original users. E-waste is the inevitable by-product of a technological revolution. Driven primarily by faster, smaller and cheaper microchip technology, society is experiencing an evolution in the capability of electronic appliances and personal electronics. For all its benefits, innovation brings with it the by product of rapid obsolescence. According to the EPA, nationally, an estimated 5 to 7 million tons of computers, televisions, stereos, cell phones, electronic appliances and toys, and other electronic gadgets become obsolete every year. According to various reports, electronics comprise approximately 1 – 4 percent of the municipal solid waste stream. The electronic waste problem will continue to grow at an accelerated rate. Electronic, or e-waste, refers to electronic products being discarded by consumers.

Key words: *Electronical Appliances, Landfill, Garbage, Incinerator, Recycle, Lead, Effluent.*

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Paper ID: ICCIASH-2021/9B7

A Study on Turbines – A review

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Abstract:

A turbine is a rotatory engine that excerpts energy from a fluid flow. Claude Bruin coined the term from the Latin turbines, or vortex during a 1828 engineering competition. A turbine operating in reverse is called a compressor or turbopump. It changes mechanical energy to fluid energy (fluid flow).The simplest turbines have one moving part, a rotor assembly, which is a shaft with blades attached. Moving fluid acts on the blades, or the blades react to the flow, so that they rotate and impart energy to the rotor. Gas, Steam, and Water turbines usually have a casing around the blades that emphases and controls the fluids. Ex: windmills and water wheels.

There are many types of turbines like steam turbine, gas turbine, transonic turbine, contra-rotating turbine, ceramic turbine, shrouded turbine, shrouded less turbine, water turbine, and wind turbine. Water and wind turbines have a thermodynamic cycle as a part of weather.

Uses of turbines: Nearly all the electrical power on earth is produced by the turbine of some type. The exclusions being solar panels, fuel cells, and diesel generators which are commonly used in small isolated towns (this practice is very common in Alaska for instance). Very high thermal efficiencies are achievable in gas turbine power generation facilities (60% or greater when using combined cycles). Most jet engines (excluding scramjet and ramjet engines) rely on turbines to supply mechanical work from their working fluid and fuel as do all nuclear warships and power plants. Turbine are often part of a larger machine. A Gas turbine for example may refer to an internal combustion machine that contains a turbine, ducts, compressor, combustor, heat exchanger, fan and (in the case of one designed to produce electricity) an alternator.

Key words: *turbine, engine, turbo, fluid, energy, machine.*

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Paper ID: ICCIASH-2021/9G5

AIR CARS FOR FUTURE GENERATIONS

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Abstract:

Now a days fuel (petrol, diesel) became more expensive and impractical. To overcome this a new generation type of vehicles are introduced they are know as air cars.

Air powered cars runs on compressed air instead of gasoline. This car is powered by a two-cylinder compressed engine. This engine can run either on compressed air alone or act as an IC engine.

Air cars are pollution free and easy to manufacture. It needs low maintenance. Production cost of air cars are less than fuel cars. It is easy for transportation within the organization and manufacturing plants.

The major problem with all compressed air cars is the lack of torque produced by the "engines" and the cost of compressing the air. The principal disadvantage is the indirect use of energy. Energy is used to compress air, which in turn, provides the energy to run the motor. Air cars has limited storage of compressed air. A tank containing compressed air is risky and dangerous.

Key words: *Air, IC engine, energy.*

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Paper ID: ICCIASH-2021/976

THE ROLE OF HUMAN-COMPUTER INTERCTION

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Abstract:

The consumption of energy is unlike most consumable goods. It is abstract, invisible, and untouchable. Without a tangible manifestation, home energy usage often goes unnoticed. Advance in resource monitoring systems will soon provide real time data on electricity, gas, and water usage in the home. This will produce a tremendous amount of data that can be analyzed and fed bank to the user- creating a rich space of opportunities for HCI research. This paper outlines common misconceptions of energy usage in the home, establishes the potential of feedback to change energy consumption behavior, and introduces ten design dimensions of feedback technology with which to build and evaluate.

Key words: *Feedback, Perceptions of energy, Design space- Ten Design Dimensions, Feedback Technology.*

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Paper ID: ICCIASH-2021/9B9

A Study on Augmented Reality

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Abstract:

This paper surveys the field of augmented reality (AR), in which 3D virtual objects are integrated into a 3D real environment in real time. It describes the medical, manufacturing, visualization, path planning, entertainment, and military applications that have been explored. This paper describes the characteristics of augmented reality systems, including a detailed discussion of the trade-off between optical and video blending approaches. Registration and sensing errors are two of the biggest problems in building effective augmented reality systems, so this paper summarizes current efforts to overcome these problems. Future directions and areas requiring further research are discussed. This survey provides a starting point for anyone interested in researching or using augmented reality. The primary value of augmented reality is the way components of the digital world blend into a person's perception of the real world, not as a simple display of data, but through the integration of immersive sensations, which are perceived as natural parts of an environment. The earliest functional AR systems that provided immersive mixed reality experiences for users were invented in the early 1990s, starting with the Virtual Fixtures system developed at the U.S. Air Force's Armstrong Laboratory in 1992. Commercial augmented reality experiences were first introduced in entertainment and gaming businesses. Subsequently, augmented reality applications have spanned commercial industries such as education, communications, medicine, and entertainment. In education, content may be accessed by scanning or viewing an image with a mobile device or by using mark less AR techniques. Augmented reality (AR) differs from virtual reality (VR) in the sense that in AR part of the surrounding environment is actually 'real' and just adding layers of virtual objects to the real environment. On the other hand, in VR the surrounding environment is completely virtual. A demonstration of how AR layers objects onto the real world can be seen with augmented reality games. Walla Me is an augmented reality game application that allows users to hide messages in real environments, utilizing geolocation technology to enable users to hide messages wherever they may wish in the world. Augmented reality also has a lot of potential in the gathering and sharing of tacit knowledge. Augmentation techniques are typically performed in real time and in semantic contexts with environmental elements. Immersive perceptual information is sometimes combined with supplemental information like scores over a live video feed of a sporting events. This combines the benefits of both augmented reality technology and heads up display technology Hud.

Key words: *Augmented reality, 3D, real time.*

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Paper ID: ICCIASH-2021/9B6

A Study on Cyber Security

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Abstract:

Cyber Security refers to securing data, information from the Cyber Crime. Cyber Security plays a crucial role within the field of data technology. Securing the knowledge has become one of the most important challenges of the present times. Whenever we think about the cyber security, the first thing that comes to our mind is cybercrimes which are increasing immensely day by day. Various Governments and corporations are taking many measures so as to stop these cybercrimes. Besides various measures cyber security remains a really big concern to several agencies. Cyber Security is a major concern for National Security in the field of Military, Intelligence, National Security, Important Assets of a Country (Nuclear Plant, Bank, Airport etc). Today data has become the new OIL for the whole world. Spying of important people (Scientist, Government Employs, Army Personal etc) has become common by other Nation. International Community has taken this issue very seriously and has signed Budapest Accords for Cyber Security in 2019, which was signed by 179 Countries. Awareness about this issue is important among common people as many frauds happen and many get trapped in it.

This Branch of Technology has a lot of opportunity. Creating Firewalls against unknown threats can protect data. Creating own server or Cloud Computing for Storing Data can help from Cyber Crime.

Key words: *Cyber Security, Cyber Crime, National Security, Firewalls, Cloud Computing.*

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Paper ID: ICCIASH-2021/9B8

A Study on Design for Manufacturing

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Abstract:

Design for Manufacturing (DFM) and design for assembly (DFA) are the integration of product design and process planning into one common activity. The goal is to design a product that is easily and economically manufactured. The importance of designing for manufacturing is underlined by the fact that about 70% of manufacturing reduces the total number of parts. The reduction of the number of parts in a product is probably the best opportunity for reducing manufacturing costs. Less parts implies less purchases, inventory, handling, processing time, development time, equipment, engineering time, assembly difficulty, service inspection, testing, etc. In general, it reduces the level of intensity of all activities related to the product during its entire life. The use of modules in product design simplifies manufacturing activities such as inspection, testing, assembly, purchasing, redesign, maintenance, service, and so on. One reason is that modules add versatility to product update in the redesign process, help run tests before the final assembly is put together and allow the use of standard components to minimize product variations.

Key words: *DFM, develop of modular designs, use the standard components, multifunctional of design part.*

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Paper ID: ICCIASH-2021/975

Analysis of possibility to eliminate Phishing in Cybercrimes

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Abstract:

Phishing is a form of cybercrime where an attacker imitates a real person / institution by promoting them as an official person or entity through e-mail or other communication mediums. In this type of cyber-attack, the attacker sends malicious links or attachments through phishing e-mails that can perform various functions, including capturing the login credentials or account information of the victim. These e-mails harm victims because of money loss and identity theft. We are going to do a detailed research on phishing and other cybercrimes related to phishing. We will also learn about other major cyber-crimes and the laws which are implemented and are on practice. We will also analyse the current and historical conditions and situations regarding phishing in and out of India.

Key words: *Phishing, cyber-crime, cyber laws, privacy and security.*

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Paper ID: ICCIASH-2021/9A9

Passive Solar Building: An Overview

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Abstract:

In passive solar building design, windows, walls, and floors are made to collect, store, and distribute solar energy in the form of heat in the winter and reject solar heat in the summer. This is called passive solar design or climatic design because, unlike active solar heating systems, it doesn't involve the use of mechanical and electrical devices.

The key to designing a passive solar home is to best take advantage of the local climate. Elements to be considered include window placement and glazing type, thermal insulation, thermal mass, and shading. Passive solar design techniques can be applied most easily to new buildings, but existing buildings can be adapted or "retrofitted".

Key words: *Solar, local climate, thermal insulation, energy, heating.*

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Paper ID: ICCIASH-2021/985

A REVIEW ON COVID-19

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Abstract:

Agent of an outbreak of viral pneumonia centered around Wuhan, Hubei, China in Dec 2019, now called as COVID-19. In this article, the current knowledge of deadly, pandemic human coronavirus SARS-Cov2 (COVID-19), with special reference to its zoonosis, susceptibility, and different strategies to develop its therapeutics, will be discussed.

Study design: Sources of Corona Virus and Zoonosis, Diagnosis of Corona Virus in Human; Approach for Finding Therapeutics, were highlighted.

Methods: All the information were taken from the several Review and guidelines published by CDC, WHO, NIH, etc.

Studies with many HCoVs indicate that HCoVs including COVID-19 may be more clinically important in the immune-compromised and/or elderly people than previously thought. Since vaccines are not currently available for any of these respiratory viruses, it is necessary to monitor epidemic patterns and investigate the spread of respiratory infections to efficiently identify, control and prevent epidemics.

A detailed study of COVID-19, both genomics and proteomics is needed to know the infection mechanism as well as to drug design. This, however, may be hampered by the lack of an appropriate *in vitro* as well as *in vivo* model. Further, future experiments with more sensitive diagnostic tools should yield a more accurate picture of the prevalence of this virus (COVID-19) and its association with respiratory diseases.

Key words: *SARS, MERS, COVID-19, therapeutics.*

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Paper ID: ICCIASH-2021/9A8

Anatomization of Ultrasonic Motors

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Abstract:

Ultrasonic motor is a sort of piezoelectric motor which is powered by the ultrasonic vibration of a component, the stator, placed against another component, the rotor or slider depends on the scheme of operation (rotation or linear translation). Ultrasonic motors differ from other piezoelectric motors in several ways, though both typically use some style of piezoelectric material, most frequently lead zirconate titanate and sometimes lithium niobate or other single-crystal materials. The foremost obvious difference is that the use of resonance to amplify the vibration of the stator in touch with the rotor in ultrasonic motors. A piezoelectric rotary ultrasonic motor is modelled for the aim of predicting, a priori, motor performance as a function of design parameters. The Rayleigh-Ritz assumed mode energy method is employed to model the distributed piezo ceramics and also the wave dynamics of the stator. Dry friction is usually utilized in contact, and also the ultrasonic vibration induced within the stator is employed both to impart motion to the rotor and to modulate the frictional forces present at the interface. A key observation within the study of ultrasonic motors is that the height vibration that will be induced in structures occurs at a comparatively constant vibration velocity no matter frequency. The vibration velocity is solely the time derivative of the vibration displacement in an exceedingly structure, and isn't associated with the speed of the wave propagation within a structure. Despite having low penetration rate and high-power consumption by ultrasonic motors they produce less heat, will be used for threading of hard materials and might do machining of hard yet as brittle materials in it.

Key words: *Ultrasonic motor, piezoelectric motor, vibration, stator, rotor, lead zirconate titanate, lithium niobate, single-crystal, resonance, piezoelectric rotary ultrasonic motor, piezo ceramics, stator, Dry friction, time derivative, wave propagation.*

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Paper ID: ICCIASH-2021/804

EVALUATION OF INDIVIDUAL'S SPIRITUAL GROWTH AND THEIR PERFORMANCE ORIENTATION ACROSS DIFFERENT GENERATIONS

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Abstract:

The purpose of this study is to measure the individual's performance orientation based on their spiritual growth across different generations. For the present study, a questionnaire was framed to assess seven spiritual growth parameters based on eight components, such as approach to physical reality, mental attitude, emotional makeup, social style, personal power and leadership style, financial choices, career options and spirituality, and individual's performance orientation factors: loyalty, workaholic, goal-orientation of various generations. Data from 490 respondents was drawn from service (academic, hospital, spiritual centre and IT) and manufacturing (textile and auto component) sectors in Coimbatore, Tamil Nadu (India). The questionnaire was subjected to reliability analysis and found to be reliable. It is inferred that individuals in upper hemisphere are comparatively more loyal and goal-oriented when compared with individuals in lower hemisphere. The results of this study will guide researchers, in how performance can be improved by progression of individuals from lower to higher hemisphere through spiritual management techniques.

Key words: *Generational Differences, Performance, Loyalty, Workaholism, Goal-orientation, Workplace Spirituality, Spiritual Growth.*

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Paper ID: ICCIASH-2021/803

A STUDY ON CONSUMER PURCHASE PERCEPTION IN INDIAN ORGANIC FOOD MARKET

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Abstract:

A developing worry among consumers for wellbeing and environmental perspectives had lead to spike in the interest of healthy and safe agricultural items among consumers over the globe. As an outcome of this, there is an expansion in tendency to produce and use organic food products acquired from organic farming. Trailing the globe movement, the interest for organic foods in India has additionally indicated an upswing. In spite of the fact that earlier, organic food producers principally traded to United states and Europe, as of now there is a steady move towards own domestic market. However the organic culture in India is still at its early stage, despite its demonstrated benefit of creating the great food with solid nourishment value. Most of the studies concentrated on the consumer behavior towards organic food while a few studies have been led on organic foods. The current study particularly tries to explore the consumer awareness and inclinations in regards to organic food items accessible in the market. To accomplish the aforementioned reason, primary data was gathered from 120 consumers of selected cities of north India with the help of organized questionnaire. The inferences drawn from the investigation featured fascinating and striking findings about organic food market in India. Despite the fact that high level of awareness and positive attitude of consumers for organic foods was observed, but in sharp difference to this, the buy recurrence of the equivalent was exceptionally low. Inspite of consumers finding these foods healthy, safe and environmental friendly, a disappointment and doubt concerning its information, availability, variety and value level combined with doubt/non-reliability on the wellsprings of flexibly was observed. The discoveries of the investigation have solid ramifications for organic food producers, retailers, consumers, marketers, policy creators. Apparently, the administrative bodies and advertisers ought to understand that accessibility of information, increased variety of organic foods alongside simple accessibility and standardized affirmation can possibly enhance the sale of organic food products.

Key words: *Organic food, consumer behavior, marketers.*

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Paper ID: ICCIASH-2021/9A6

STRESS FATIGUE FORMATION ON THE CRANE HOOK: A REVIEW

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Abstract:

A Crane is quite machine, generally equipped with a hoist wire ropes or chains and sheaves which is able to be used both to list and lower materials and to manoeuvre them horizontally. It's mainly used for listing simple machines to make mechanical advantages and thus move loads beyond the standard capability of someone. Cranes are commonly employed within the transport industry for the loading and unloading of freight, within the industry for the movement of materials and within the manufacturing industry for the assembling of heavy equipment's. Crane Hooks are highly liable components and are always subjected to failure due to accumulation of enormous amount of stresses which could eventually cause its failure. To test the strain pattern of crane hook in its loaded condition, a solid model of crane hook is prepared with the help of CMM and CAD software. We can obtain the Real time pattern of stress concentration with the help of 3D model of crane hook. The strain distribution pattern is verified for its correctness on an acrylic model of crane hook using Diffused light Polaris's cope founded. By predicting the strain concentration area, the shape of constellation is modified to increase its working life and reduce the failure rates.

Key words: *Crane Hooks, Components, Failure, Stress concentration, work life.*

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Paper ID: ICCIASH-2021/407

Transgenders' Journey of identity through pain and pathos with reference to Julie Anne Peter's Luna

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Abstract:

Most people identify themselves as a boy or a girl, or as a man or a woman, almost everyone identify their gender with the sex they were born with. But some people find it difficult to match their assigned sex with their gender and becomes a victim of gender dysphoria. People who experience gender dysphoria are typically transgender. *Luna* is one such story that talks about a transgender Liam O'Neil (Luna) his identification of himself as the 'other' of the constructed gender binary of society and his journey of matching the mismatch of his gender and sex. This paper deals with the journey of a transgender and his struggle to be accepted by the society. It also studies the condition of gender dysphoria often faced by transgenders.

Key words: *gender dysphoria, transgender, identity.*

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Paper ID: ICCIASH-2021/707

Automated Attendance Monitoring System Using Machine Learning

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Abstract:

This paper proposes the automated attendance monitoring system in which the students attending the class have to go through the AI built camera which detects the eye, face, and other facial impressions which mark the attendance before entering the class. After a detailed study on different algorithms, the paper is proposed with the state of art algorithm using python and java for development part and a restful API based web server for backend part is used, which is plotted below in this paper. The main idea behind this paper is to purpose a system which automates the attendance system, which otherwise is a very time consuming.

Key words: *Face recognition, Face detection, NGINX, RTMP, Python, Java, MySQL.*

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Paper ID: ICCIASH-2021/405

Marriage in Need: Love to be destined in context of Sebastian and Evie with reference to Lisa Kleypas'

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Abstract:

In today's twenty first century in majority of the cases love comes with an expiry date. Couples tend to fall in love, date each other, and try to impress each other with fancy exchange of gifts and often artificial gestures. The moment the comfort zone is broken they seek to get apart. The true meaning of love is still meaningless, as it does not contain any meaning in itself; it's free, without any calculations to get in to motion. But some love stories are destined, it makes through all odds. One such story is ***Devil in Winter*** a book from the Wallflower Series which truly gives a vast gist that how love makes its own path, and walks on the grassland which seemed to be barren before. A story which gives an inspiration to the young generation couples to fall in love, to abide themselves with respect for each other, a relationship with sacrifices and a bond of togetherness with almighty's blessings.

Key words: *Marriage in need, love is destined, Sebastian, Evie, Wallflower Series.*

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Paper ID: ICCIASH-2021/9F4

An analysis of cryptocurrency, Bitcoin and the future

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Abstract:

Cryptocurrency, an encrypted, peer-to-peer network for facilitating digital barter is a technology developed eight years ago. Bitcoin, the first and most popular cryptocurrency is paving the way as a disruptive technology to long standing and unchanged financial payment systems that have been in place for many decades. While cryptocurrencies are not likely to replace traditional fiat currency, they could change the way Internet-connected global markets interact with each other, clearing away barriers surrounding normative national currencies and exchange rates. Technology advances at a rapid rate and the success of a given technology is almost solely dictated by the market upon which it seeks to improve. Cryptocurrencies may revolutionize digital trade markets by creating a free flowing trading system without fees. SWOT analysis of Bitcoin is presented which illuminates some of the recent events and movements that could influence whether Bitcoin contributes to a shift in economic paradigms.

Key words: *Cryptocurrency, Eritherium, Bitcoin, Encrypted, Currency, Bitpay, Exchange Rates.*

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The Portrayal of Women in the Novels of Arun Joshi

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Abstract:

Arun Joshi has employed various modes of narration to bring out the real self and personality of his characters. He freely merges the past, the present and the future in an order to portray the psychological journey of his protagonists through their thoughts, response and inner sensibilities. But we know very little of the other characters specially of women characters besides protagonist or narrator in the novels. We know of them what the protagonist or narrator cares to inform us. We know very little about Ratan's wife and his daughter in The Apprentice, about Rima Kaul and Situ (Romi's wife) in The Strange Case. There is no remarkable female character in The City and The River. The Headman of the boat people is a woman but she lacks feminine grace. Again the novels are invariably narrated from the male point of view. The opposite point of view is conspicuous by its absence. Thus, important characters like Bilasia and Anuradha remain mere shadows before the overwhelming presence of their respective heroes. They are always in the background even though they impinge on the men's lives and at the crucial movement they perform the vital task of catalyzing the discontented heroes' progress towards self-recognition. Only June Blyth in The Foreigner succeeds in emerging as a self-asserting individual with her youthful vivacity, self-effacing passion for Sindi, and her ultimate despair and suffering. Joshi's major women characters, particularly Bilasia and Anuradha stand for the life-spirit in women.

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Department of Science and Humanities, St. Martin's Engineering College, Secunderabad (www.smec.ac.in) ISBN No 978-81-952677-9-8

Paper ID: ICCIASH-2021/601

Role of English Language listening skills in Legal Education

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Abstract:

In the light of the National Curriculum Framework, 2005, it is very clear that every student should be well versed in necessary skills of language. Therefore, every student must be trained in reading, writing, listening and communication skills of the English language. Each skill has its own importance. Accordingly students are required to develop each skill efficiently. It is ancient moral philosophical principle that, "listen more and speak less" which highlights the importance of listening skill. Therefore, listening skill is essentially foundation of effective understanding the context and reacting with the content of communication. Hence, it must be given much importance so as to develop English language pronunciation and effective understanding of legal concepts. The National Education Policy 2019 has therefore stressed on giving bilingual legal education to lawyers and judges to understand the law in better sense.

It is fact that listening skills are very important in legal education. But it is most neglected area of research. Listening skill is a peculiar capability of students which helps to students to understand the context mainly due to two reasons, firstly legal education is given in English language and secondly, it helps to law students to develop professional skills. Therefore, this research paper is focused on the role of English language listening skills in legal education.

Key words: *Ability, English Language, Knowledge, Legal Education, Listening Skills.*

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A STUDY OF CYBER SECURITY ATTACK USING MACHINE LEARNING AND DEEP LEARNING

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Abstract:

With the vast development of the internet, cyberattacks are developing quickly and the cyber security situation isn't optimistic. This study reports depicts key literature survey on Machine Learning (ML) and Deep Learning (DL) technologies in cyber security is getting more vigorous than earlier days. It basically initiates from IP traffic classification, malware detection, filtering malicious traffic for intrusion detection, ML and DL is one of the rising answers that can be effective against zero day attacks. An ML and DL techniques are to address the upcoming problem of cyber attack. In earlier they focus on threat predictions through the various deep learning approaches to produce very long patterns. This paper is focused to improve the precision of labeled dataset for ML and DL and built good learning dataset and introduce an algorithm that can detect malware for unknown malware families. Further examine DL algorithms for domain name grouping and prediction for this research process and estimate them on a real-world test bed. Datasets are more important when we use ML and DL techniques some frequently known datasets are also have to be mentioned.

Key words: *Machine learning, Deep Learning, Cyber security.*

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Paper ID: ICCIASH-2021/706

Application of Machine Learning in Composite Materials: A Review

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Abstract:

The usage of composite materials is increasing tremendously in various industries. Meanwhile machine learning and deep learning models has extended its horizons in various domains. This work concentrates on having an indepth study of the applications of machine learning models in various stages of employing the composite materials. In specific, usage of machine learning models in defect detection, manufacturing and prediction of properties in various composite materials are studied in detail. In addition to this, a study on the various tools for image acquisition and its methodology. This helps in better understanding of the processes that are used in coherence with the machine learning models. This study would provide a deep insight on the above specified applications of machine learning in composite materials.

Key words: *Detect defection, composite materials, property prediction, Deep learning.*

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Paper ID: ICCIASH-2021/101

Introduction to several integral transforms and their applications to solve some ordinary differential equations

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Abstract:

In this paper, we solve linear and non-linear ordinary differential equations using Sumudu transform, Polynomial integral transform, Natural transform (NDM) and Generalization of integral transform for initial or boundary conditions to obtain their exact solutions.

Key words: *Sumudu transform, Generalization of integral transform, Polynomial integral transform, Natural transform.*

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A Comparative study to detect Breast Cancer at preliminary stage using Machine Learning

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Abstract:

Cancer has become a primary cause of death globally. Breast cancer is a ubiquitous cancer with 22.6 lacs new cases in 2020 exceeding 22.1 lacs cases of lung cancer. Breast Cancer is the primary cause of death in females with a 15.5% mortality rate. Early detection of Breast Cancer has become exigent to reduce mortality rate and increase the survival rate. Breast Cancer evolves when normal cells begin to grow abnormally transforming into tumor cells in the breast itself. It can be classified as either benign or malignant cancer depending upon the shape and size of cells growing rapidly. The main aim of this paper is to compare several algorithms/techniques used by other researchers to detect Breast cancer at an initial stage. Henceforth, better and appropriate treatment can be provided to the sufferer. On analyzing and comparing the performance of algorithms including DNNS, CNN, SVM, DCNN, VGG16, and ResNet50, CNN is proved to be the best among all with an overall accuracy of 99.99%.

Key words: *Breast cancer detection, Machine learning.*

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Paper ID: ICCIASH-2021/502

SEGMENTATION IN MAMMOGRAM IMAGES USING MORPHOLOGICAL AND K-MEANS CLUSTERING

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Abstract:

Cancer is leading cause of death in worldwide. Cancer cells damages all cells surrounded by it and hence covers the complete area of the body. Amongst women breast cancer is most common deadly disease as compared to men. In any type of cancer early-stage detection plays vital role as it can save the patient's life. If cancer is diagnosed early by using breast self-examination (BSE) and clinical breast examination (CBE) at 40-49 years of age, the survival rate of breast cancer reaches 100 per cent. New strategies named CAD (computer-assisted diagnosis) programs for early detection utilizing multiple mammogram datasets, such as mini-mias, DDSM, etc., CAD (Computer Aided Diagnosis) systems are mostly used for the second opinion for radiologists. Many researchers are already developing different CAD systems. Different databases are available for the researchers to study and detect the cancerous tumors. In this paper Mini-Mias database is used. Mammogram images are low contrast and may contain noise. Filtering or pre-processing is required to remove any noises present in the image, here Weiner filter is used. Two methodologies are compared here. First using morphological operated segmentation and second is by using k-means clustering algorithm. Both methodologies show segmented output of the image, but K-means clustering gives more accurate region of interest as compared to morphological. In this paper, pre-processing and segmentation is carried out. ROC output from K-Means clustering algorithm can be used to train any network to detect any cancerous tumor present in the images.

Key words: *BSE, CBE, CAD, CT, DDSM (Digital Data Screening Mammography), GLCM, Mammograms, MRI, PET.*

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Paper ID: ICCIASH-2021/955

A Study on Pixie dust

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Abstract:

Pixie Dust is a technology, with the help of which you can do impossible things. It is the informal name. Pixie Dust's is technical name is anti-ferromagnetic ally coupled (AFC) media technology. The data capacities of the hard drives are increased up to four times with the current drives. A super permanent effect, which puts a limit to the use of current hard drives, AFC overcomes it. In a three-atom thick magnetic coating which is composed of ruthenium element present between the two layers, Pixie dust is used. Earlier storage was the biggest problem. Use of AFC by IBM helped to overcome the problem.

AFC uses more disk or heads to increase the data density. The sizes of the device became smaller, stored large data and operated at low power. In order to control the price, IBM found out a method to add AFC to its production method. The technology is not publicized in advance by the company which thinks to carry out the process. Anti-ferromagnetic ally coupled technology is popularly used by many companies. Like IBM, many other companies like Fujitsu have started to do research on the use of the AFC. They are also on the same path followed by IBM.

Key words: *pixie dust, anti-ferromagnetic, atom.*

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Paper ID: ICCIASH-2021/9E0

Effects of Corrosion on underwater metals

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Abstract:

Corrosion is the destruction of metals and alloys by the chemical reaction with the environment. During corrosion the metals are converted to metallic compounds at the surface and these compounds wears away as corrosion product.

Protective Coating

Surface coatings are broadly classified into three.

- Metallic coatings
- Inorganic Coatings
- Organic Coatings

In order to protect metals from corrosion, the contact between the metal. and the corrosive environment is to be cut off. This is done by coating the surface of metals with a continuous non-porous material inert to the corrosive atmosphere.

Though there is no absolute way to eliminate all corrosion on under water piles, there are some effective measures to control them. The cathodic protection is found to be quite simple to employ and mostly used in marine conditions. The protective coatings are used in vast and expensive structures. The FRP composites have many advantages over conventional methods such that they are light weight, possess high strength and chemical resistance and moreover have incomparable flexibility.

Of the various ways of wrapping of FRP composites, transverse wrapping is found to be the easiest as otherwise, the longitudinal pieces are awkward to handle and difficult to position. Bi-directional material is the best option. Scaffolding measures during the application of materials ensures safety and simplifies installation. Out of the two system of FRP application, the pre-preg system is easier to use. On-site FRP saturation can be problematic. High winds and high tides should be avoided during the process.

Key words: *FRP, flexibility, way, high.*

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ENGLISH LANGUAGE TEACHING FROM A PSYCHOANALYTIC PERSPECTIVE WITH REFERENCE TO SIGMUND FREUD

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Abstract:

With the advent of the 21st century, English Language Teaching and Learning has acquired a new dimension to cater to the changing needs of the millennial. The purpose of teaching English Language has become "communicative" unlike the last century. When it comes to communication, students from rural background face a lot of issues, of which most are psychological. Students of this century are hostile towards criticism and are easily hurt if faced with criticism or reprimand during language learning. This unpleasant situation creates "Language Anxiety" in most of the students. As a result of this anxiety, the human brain develops two types of defense mechanism on the basis of how the student takes the criticism. These two types of defense mechanisms are Repression and Suppression. Repression is a state of mind where the hurtful thoughts are repressed, forgotten and stored in the unconscious mind. Though these thoughts are in the unconscious mind, they strongly exert influence on the behavior of the individual, and in the language learning scenario, the student even stops learning the learning for fear of making mistakes and the criticism that follows. Suppression is another type of positive defense mechanism where the hurtful thoughts are suppressed in the conscious mind. As the conscious mind has the capacity to analyze the truth and act accordingly, the unpleasant thoughts can be analyzed like chewing the cud, and a proper solution can be obtained. This paper discusses the types of defense mechanisms and the one which can create a pleasant and comfortable learning environment for the students.

Key words: *Sigmund Freud's defense mechanism, defense mechanism in students, psychoanalytic approach in English language learning.*

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Paper ID: ICCIASH-2021/410

Aesthetics of Protest in Era Bell Thompson's American Daughter

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Abstract:

Era Bell Thompson was born in Des Moines. Her Autobiography American Daughter (1946) is an account of her girlhood days in North Dakota and her first hand experience of the prejudiced White Americans. Being a woman, she was the victim of double exploitation: as a member of African American community and also as a woman who had been the victim of the long-established patriarchal social structure.

A close and critical analysis of the autobiography brings out the heart-rending records of unending struggle of the 'self' of the author against the brutal socio-cultural and political milieu of her time. During the course of development, the psycho-social self of the author was cornered by a number of impediments created by this milieu and to protest itself from those forces, the 'self' was required to employ various means of protest. Accordingly, the autobiography of Era Bell Thompson voice all these content aspects of protest and also the strategies employs by her to defeat various social, religious and political institutions of the Whites.

Key words: *Self, Black Literature, Aesthetics of Protest, Autobiography.*

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Paper ID: ICCIASH-2021/805

STUDY OF CONSUMER BEHAVIOR IN THE INTERNATIONAL MARKET WITH RESPECT TO CULTURAL FACTORS IN DELHI, INDIA AND LONDON, UK

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Abstract:

This paper centre around the social components presents in the business sectors of Delhi and London. The investigation is done to discover the significance of social component on shopper conduct in the business sectors of Delhi and London. As the organizations are growing their business in the unfamiliar nations for expanding business productivity, it is engaged that the organizations ought not neglect to think about the social components while advertising the items and furthermore while setting up the methodologies.

Social contemplations are displayed as a significant factor that impacts the business sectors of Delhi and London. The social significance is expressed through models were discovered essential. The exploration depends on essential information that is creators' assessment, instructors talk and nearby individuals' assessment and auxiliary information that is gathered from diaries, magazines and web. The kind of relationship was found between both the business sectors of Delhi and London concerning the social components present in these business sectors. The connection strategy for discovering the relationship among the business sectors.

Key words: *Consumer Behaviour, Culture, Religion, Values, Language, convictions, Symbols and Colour.*

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Paper ID: ICCIASH-2021/304

The Role of Positive Interdependence and Translation in a Multilingual Second Language Classroom

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Abstract:

The study reported in this paper explored the role of Positive Interdependence and Translation in a multilingual second language classroom of advanced level students from the English and Foreign Languages University, Hyderabad. This University draws students from different countries, and therefore, on occasions, it gets difficult for them to work with each other in collaborative learning situations because of the culture gaps and language barriers. As a student, I have been a part of many group activities, and I have experienced a lot of situations where the students did not find it easy to contribute to the task at hand. This was because they have found the materials quite different from their cultural contexts, and also some of them were not fluent users of English Language. Moreover, it was not mandatory for everyone in the group to contribute for its success, and therefore, some learners used to rely on others. To solve these situations, I have carried out an intervention study, and translation based activities on positive interdependence which catered to their cultural needs were given to the students. Literature from their respective countries and languages was the main source of materials production. Questionnaire, classroom observation, and semi-structured interviews were the tools for data collection. It was found that the students liked positive interdependence more when compared to a collaborative work without it. They had also liked the materials, and felt that translation gave them an opportunity to use their mother tongue as a bridge to learn the second language. This shows that there is a need for positive interdependence, and translation, especially in a multilingual setting to make each learner feel he could contribute in a collaborative work successfully.

Key words: *Collaborative Learning, Cooperation, Culture, Positive Interdependence, Translation.*

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Paper ID: ICCIASH-2021/302

A Review on Zinc Oxide Nanoparticles and Their Applications

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Abstract:

Nanotechnology allocates with the production and usage of material with nanoscale dimension, nanoparticles are large surface area to volume ratio and thus very specific properties. Zinc oxide (ZnO) nanoparticles had been in current studies due to its large bandwidth and high exciton binding energy, and it has prospective applications such as antimicrobial activity, Antioxidant activity · Cytotoxic activity, Photocatalytic degradation's magnetic and chemical properties that are significantly different from those of bulk counterpart. The aims of this review to provide a comprehensive view on structural, synthesis and electrochemical properties of the ZnO nanoparticles, which were synthesized by different methods.

Key words: *ZnO nanoparticle, method, characterization, applications.*

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Paper ID: ICCIASH-2021/303

Review on Obesity, Nutrition and control

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Abstract:

Overweight and obesity are defined as abnormal or excessive fat accumulation that presents a risk to health. Obesity has surfaced as one of the most challenging worldwide problems that requires urgent attention from the healthcare providers, academics and policy makers. It is certain that obesity is due to imbalance between energy intake and energy expenditure. Most of the world's population live in countries where overweight and obesity kills more people than underweight. Obesity causes some potential health risks. Altering people's dietary habits would appear to be an obvious and simple starting point in tackling obesity. Obesity is a complex medical problem, it is caused not only by over eating but due to lack of sleep, medication, reduced physical activity, genetics etc. Obesity is a, heritable trait influenced by the interplay of genetics, epigenetics, metagenomics and the environment. It is a major risk factor for the development of type 2 diabetes. The genetic and regulatory factors that influence energy homeostasis is advancing rapidly.

Key words: *Obesity, health, diet, genetics, sleep, diabetes.*

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Paper ID: ICCIASH-2021/305

Corporate Social Responsibility (CSR) in India: A Conceptual Framework

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Abstract:

As the notion of corporate social responsibility (CSR) becomes increasingly widespread, the question of what CSR looks like in developing countries arises. India is an example of a developing country that is experiencing significant economic expansion, as well as societal issues, as a result of increased corporate activity. However, there is a scarcity of context-sensitive CSR research in India, despite the fact that the country's unique political, economic, social, and cultural context gives it a good place to test the relevance of universal CSR ideas in a local setting. This research examines the unique characteristics of the Indian context and develops a conceptual framework based on three specific institutional level elements that may influence the nature of CSR in India. Tradition, political governance, and modernism are examples of contextual influences. This study builds a theoretical framework that supports in the growth of CSR discussions, in particular the characteristics impacting CSR conceptualizations (CSR Thinking) and implementation (CSR Doing) in India, in addition to emphasising the context in which CSR is theorised and performed.

Key words: *India, corporate social responsibility Institutions at the national level, conceptual framework, and context.*

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Paper ID: ICCIASH-2021/306

Role of Passivation Layer on the Performance of the Silicon Heterojunction Solar Cells

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Abstract:

This paper presents the effect of back surface field and passivation layer on the performance of c-Si/a-Si:H heterojunction solar cells by simulation. The c-Si/a-Si:H heterojunction solar cells have been successfully designed and evaluated by AFORS-HET simulation tool. The best values of open circuit voltage (V_{oc}) (760.8 mV), short circuit current density (J_{sc}) (36.97 mA/cm^2), fill factor (*FF*) (85.92%) and efficiency(η) (24.17%) were obtained for *Ag/a-Si:H(n)/a-Si:H(i)/c-Si(n)/a-Si:H(i)/a-Si:H(p)/ITO/Ag* (*ninip)* solar cells. Whereas, estimated values are 675.2 mV, 33.53 mA/cm^2, 83.34% and 18.98% correspond to V_{oc}, J_{sc}, *FF* and η for simple *Ag/c-Si(n)/a-Si:H(p)/ITO/Ag* (*np)* solar cell. This improvement in the performance of c-Si/a-Si:H heterojunction (*ninip*) solar cells is due to very thin a-Si:H(i) layer on both side of c-Si wafer has passivated the most of the dangling bonds on c-Si and defect density at interface between the c-Si and a-Si:H(p)/a-Si:H(n) layer. This passivation layer also extended internal electric field at junction to separate free charge carriers to reach metal contacts immediately.

Key words: *c-Si/a-Si:H heterojunction solar cells, Passivation, Back surface field and Simulation.*

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Paper ID: ICCIASH-2021/307

Definite Analytic arrangement of Advection Dispersion Equation utilizing Group Theoretical Method

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Abstract:

In portraying the shift in weather conditions scattering wonders the specific insightful arrangement of the shift in weather conditions scattering condition (ADE) is the excellent prerequisite. Present article manages the strategy to give the viable and pertinent answer for ADE. To satisfy the prerequisite, the novel logical arrangement of ADE is proposed through the current work. The utilization of the Group-hypothetical strategy for the proposed work makes the arrangement for all intents and purposes material and give degree to additional numerical examination. The Lie Symmetry strategy is embraced to acquire said arrangement to step shrewd diminishing in the factors.

Key words: *Advection Dispersion Equation, Lie group of transformation, characteristic function.*

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Paper ID: ICCIASH-2021/603

Application of digital tools in diet assessment: A review

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Abstract:

Precise assessment of food intake is important to evaluate the diet quality of individuals and population groups. An upcoming way to enhance the accuracy and usability of the conventional dietary assessment methods is the use of technology through computerized, online tools comprising digital food photograph series for quantification of food consumed (i.e. portion size estimation). The aim of this paper is to review the various digital diet assessment tools developed for adults based on 24 hour dietary recall method and food portion images. A total of 15 articles (period of search: January, 2005- May, 2021) were obtained from research databases (PubMed, Scopus and Science direct) and search engines (Google and Google scholar). Twelve digital tools were identified most of which were self-administered and online. Their main components were: population specific food composition database; recipe and food portion image database; and a multi-pass dietary recall form. Comparison with weighment method of dietary assessment, other dietary assessment methods using conventional portion size estimation tools and biomarkers showed acceptable (r=0.20-0.49) to good (r ≥0.50) association between actual intake and reported intake using these tools. The tools were also found to be acceptable by users in terms of administration, ease of use, practical feasibility and preference. Such digital tools, developed or adapted through application of technology, can be used in different population groups after validation and testing.

Key words: *Food intake, dietary assessment, 24 hour dietary recall, digital tools, validation, diet, nutrition, web, food photographs, technology.*

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Paper ID: ICCIASH-2021/308

A Review On-Biofuel Preparation from Cotton Wastes

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Abstract:

This article describes the different reviews on articles of III generation stages of biofuels production, preparation and the sources for biofuels. The cotton wastes are focussed as extensive source for the biofuels production and detailed discussion carried with cotton cultivation, extraction, conversion to biofuel.an elaborated discussion on pre-treatment methodologies, techniques involved and the challenges facing in the implementation of cotton wastes as sources. If the non-toxic, low cost biofuels will use in day to day life, how the Indian economy get befitted and get green environment. The above aspects discussed in this comprehensive review, which is useful tool in operative, identifying and innovative aspects of biofuel production.

Key words: *Biofuels, Cotton wastes, III generation.*

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Paper ID: ICCIASH-2021/411

INNOVATIVE PRACTICES IN TEACHER EDUCATION

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Abstract:

The nature of instructive cycle largely depends upon the nature of teachers. Though educating is being considered as a science and expertise, fundamentally it is superb craftsmanship. The educator unwittingly plans the development of plastic brain of the kid endowed to him. Accordingly, educating is anything but a mechanical interaction. For sure, it is a many-sided, demanding and an extremely testing one with great initiative and suitable showing techniques, the teacher's adequacy can be upgraded. Challenges in the instructive framework have no perpetual and fixed answers due to the inconsistent idea of human culture. The educators in the 21st century will have no arrangement with a world not the same as that of the twentieth century regarding academic and innovative progression. Along these lines, no educator or teachers training centres can get ready instructors for all circumstances that they are going to experience. Educators themselves should settle on the last decisions from among numerous other options. Therefore, it is basic for instructors to continually reexamine their decisions. This can be accomplished through presenting or advancement of inventive thoughts and practices in instructor training. This paper will zero in on groundbreaking thoughts and inventive practices like helpful learning, constructivism, intelligent educating and so forth.

Key words: *Innovative Practices, Constructive Learning, Education, Teaching.*

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Integrating Aubrey Fisher's ELT Theory into the Training of Group Discussion

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Abstract:

It is generally observed that the slow learners are not confident of their academic skills. Why interviews turn out to be futile attempts for those students? Students at schools and colleges do not have the required skills to become competent and in particular they are poor in discussion skills.

According to the researches made by B. Aubrey Fisher, interactions changed as the group decision were formulated at the different moments of the group. He noted this change on the basis of the contents in their responses to a decision-making process. With his observation, he created a code with which he could identify the interacting ants (ants which communicate with the fellow ants and decide the travel path creating a better colony) related to the decision-making levels. So, the application of his theory viz., Decision Emergence Theory proves to be successful in the training of Group Discussion.

Key words: *ELT, Reinforcement, Strength Deployment Inventory (SDI).*

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Paper ID: ICCIASH-2021/309

Conformational polymorphs of 2-amino-5-nitrobenzophenone: Spectroscopic, Structural and DFT approach

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Abstract:

The objective of this investigation is to compare the solid state modifications using the structure elucidated from single crystal X-ray diffraction analysis. Inter- and intramolecular hydrogen bonding interactions exhibit various supramolecular architectures in the crystal packing; these variations well confirm the polymorphism in 2-amino-5-nitrobenzophenone (ANB). Crystal cohesion is achieved by C–H···O, N–H···O, N–H···π, C–H···H–C and π···π stacking interactions, responsible for the formation and strengthening of supramolecular assembly. Variations in cell parameters, XRD patterns, FT-IR vibrational frequencies and fingerprint plots support the existence of polymorphism.

Key words: *FT-IR vibrational frequencies, 2-amino-5-nitrobenzophenone.*

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TECHNIQUE TO IMPROVE PERFORMANCE OF LTE RECEIVER USING EVM

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Abstract:

LTE (Long Term Development) is the first step towards 4G radio technologies designed to increase the efficiency and speed of cellular networks. In the RF receiver model signal mismatch occurs which is overcome by EVM (Error Vector Magnitude). Error vector magnitude or EVM (sometimes called relative constellation error) is a measurement used to measure the performance of a digital radio transmitter or receiver. The signal transmitted by the ideal transmitter or received by the receiver covers all interference points in the ideal position, but various defects (carrier leakage, low image rejection ratio, phase noise, etc.) cause the actual interstellar points to be distorted in the ideal situation Informally, EVM is a measure of how far points are from ideal locations. In this paper we have observed the EVM for LTE receiver at various filter orders and bandwidth.

Key words: *LTE, EVM, Carrier Leakage.*

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Paper ID: ICCIASH-2021/310

A Study on Applications of Engineering mathematics

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Abstract:

Mathematics or especially applied science is broadly utilized in each designing fields. In this paper, a few instances of utilizations of Engineering Mathematics in mechanical, synthetic, and electrical building are talked about. Applications here are the genuine ones found in the building fields, which may not be equivalent to talked about in numerous science course readings. The motivation behind this paper is to relate mathematics to designing subject. Many building understudies think that its hard to take care of designing issues which need science a great deal. The understudies have examined arithmetic previously (analytics, straight polynomial math, mathematical investigation) however when they study building subjects which include science they frequently can't relate science to those subjects. It is trusted that through models given, designing understudies can be inspired to comprehend their building issues better. Likewise it is normal that mathematics speakers can be urged to give science issues which are more identified with designing fields.

Key words: *Engineering Mathematics, designing fields.*

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Paper ID: ICCIASH-2021/301

Application of Anion Exchange Resin in Study of Heavy Metal

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Abstract:

In close proximity environment, the textile dyeing industrial waste water is discharged which causes contamination of receiving water body. Several other methods are available for heavy metal analysis but this is very simple and small scale work carried out to find the concentration of Nickel metal. The amounts of Nickel metal obtained from three different textile dyeing industries are compared with the standard values suggested by National or International body. After comparison it is found that the level of Nickel are very greater than the permissible limit set by standard body.

Key words: *Ion exchange resin, Nickel, Effluent water.*

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Paper ID: ICCIASH-2021/311

Non -Linearities of optical fiber affecting modern communication system: An Overview

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Abstract:

In recent years, even after the installation of erbium doped fiber amplifier which has a higher bit rate transmission usually suited for transoceanic communication, but people's demand for higher data transmission capacity is unprecedented and growing continuously. The paper is presented in the form of overview addressing all the non-linear effects encountered in fiber, and what are the advantages and disadvantages it will have on the optical telecommunication. Topics covered are the types of non-linear effect occur under non-linear scattering and changes in refractive index whenever the beam interacts with various components inside the optical fiber.

Key words: *Optical fiber, kerr effect, four wave mixing (FWM), self-phase modulation (SPM), cross phase modulation (CPM).*

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Paper ID: ICCIASH-2021/414

The Successful Savior – Margaret of Cat on a Hot Tin Roof

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Abstract:

Tennessee Williams involves a conspicuous place in American drama. In Williams plays, the attention is centered primarily upon the inner life of the characters. The difficulties of each character of his plays are more of a psychological nature rather than social or political. Williams talks a great deal about decayed southern aristocracy and in most of his plays there is a similarity with regard to the plight of women. Most of his women characters exhibit the psychological trauma faced in life and their futile attempts to escape from reality.

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Battery management using MATLAB

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Abstract:

As we move forward towards next generation of technology, the demand and usage of devices which use battery as their source of power like electric vehicles, machinery, small devices, etc. are going to increase in significant numbers. In order to manage battery inside them, a system is required which does not need human intervention for continuous work. To achieve this, we need new management tools and techniques. After reviewing different models and techniques which record and manage various parameters of a battery for better functionality. In this paper, we have developed a battery discharge circuit with three cells and another circuit separately to balance state of charge (SOC) and voltage of batteries. Batteries used here are Lithium-Ion. We have used MATLAB software to make these circuits and achieved results. We finally made Simulink model and various graphs to show battery discharging and balancing.

Key words: *Lithium-Ion Battery, SOC, Voltage.*

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Analysis of seasonal and annual trends of PM2.5 at Bareilly city, Uttar Pradesh

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Abstract:

According to a report published by Green Peace (2018), Bareilly city has been reported as one of the most seven polluted cities. Bareilly city do not have too much of industrialization but vehicular emission could not be ruled out which could be a potential cause of PM2.5 in air. Air monitoring of PM2.5 was done at Bareilly city as per CPCB guidelines from three monitoring stations (A,B and C) based on vehicular frequency for a period of two years(2019-2020) to analyze the seasonal and annual trends of PM2.5. During pre-monsoon season of 2019 all station reported PM2.5 values beyond the specified limits of 60µg/m^3. Station C which is considered to be low vehicular frequency site, also reported PM2.5 values beyond the permissible limits during 2019. Lockdown was imposed in March2020 due to the outbreak of novel corona virus in India and significant cut down in PM2.5 was reported. In a two way ANOVA test conducted, it was found $p<0.05$ and $F>F$ crit for seasons and monitoring stations. This paper focuses on the monitoring, analysis and interpretation of PM2.5 at Bareilly city.

Key words: *Bareilly, vehicular emissions, PM2.5, pre-monsoon, lockdown, coronavirus.*

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UTILIZING OPEN SOURCE SOFTWARES IN TEACHING AND LEARNING MATHEMATICS

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Abstract:

This article describes the utilization of open source softwares has encouraged for educators to develop their abilities in three aspects: 1) Solving Challenging Problems 2) Mathematical Modelling and 3) Constructing Student-Centered Projects. The specified models indicate that some of the challenging problems are presented to the students, it is practically unworkable or very hard to physically make the right drawings. To overcome this difficulty, the use of softwares seems to be crucial, or at least very desirable. In addition, the use of the softwares can stimulate students insight of problem solving and provide an easy and convincing way of verifying the solution. Furthermore, students can construct accurate visual representations to model real world situations very efficiently by using the softwares. This can save time significantly so students can concentrate on the practical aspects and comprehension. Good projects that take advantage of open source softwares can also effectively enhance students mathematics learning.

Key words: *Open-Source Software, Mathematics Education, Problem Solving, Mathematical Modelling, Student-Centered Project.*

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Paper ID: ICCIASH-2021/313

QUALITY OF GROUND WATER IN YADADRI DIST PAST AND PRESENT

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Abstract:

Valigonda is a village in Yadadri District of Telangana state. River musi, a tributary of Krishna flows through some of the villages of this mandal. Musi river is a boon to the agricultural production in this area as the production of different crops is very good. But the ground water quality in this area is worsened because of the pollution in the river water of musi. Hyderabad city is playing a major role in agriculture development of its downstream areas in Rangareddy, Nalgonda districts. Though peri urban areas are benefited from the water of Musi from Hyderabad, this area ground water is undergoing major changes in its quality. A water with a pH > 8.5 could indicate that the water is hard. Hard water does not pose a health risk, but can cause aesthetic problems. Abnormally large concentrations of Sodium or Potassium concentration indicate natural brines, industrial brines, or sewage. Calcium plus magnesium -- Cause most of the hardness and scale-forming properties of water. River water always influences the ground water. The quality of musi river water is known by its pollution by industrial wastes. These polluted water had influenced the presence of different ions in water. Though fluoride content had decreased, nitrate percentage had increased which clearly shows the influence of polluted water. By this effect the water once very useful for irrigation and industries became less useful. The pH levels also indicate the growing acidic nature of these samples. Because of their acidic nature their utility further deteriorated.

Key words: *peri urban areas, Hard water, Fluoride, Nitrate, pH.*

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Paper ID: ICCIASH-2021/415

ENGLISH AND MEDICAL EDUCATION - A REVIEW

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Abstract:

This is a review of five articles each one of them exploring the Importance of English in medical education. Significance of all the four skills of communication in any given field, has already been known but there is always difference in opinion about the sub skills among them. First two studies tries to find out the important sub skills needed for medical professionals. Basically needs analysis, both the articles talk about need for communicative skills for medical professionals, the benefits they harvest with it and problems that are to be faced without it. Third article talks about the changes in the medical treatment approaches towards patient, how communication plays a vital role in the patient satisfaction index, better treatments, helping in reducing the financial burden of treatment. Fourth review talk in support of the first three articles, in addition, pointing out the teaching methods that can be of use in EMP courses for example instead relying only on the Grammar translation method, EMP instructors can use problem based learning approach for clinical communicative skills. Fifth article brings out that even traditional medical students need EMP classes with its research findings.

Key words: *English for medical purposes, clinical communicative skills, medical education.*

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Paper ID: ICCIASH-2021/102

CARATHEODORY EXTENSION THEOREM AND MEASURES ON SEMIALGEBRAS OF PARTIAL LATTICES

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Abstract:

This paper describes the Caratheodory extension theorem for a measure on partial lattices and provides the definitions of semi-algebra, and algebra generated by semi-algebra $\hat{C}$ and finally proves a theorem that if $\hat{C}$ be a semi-algebra of partial lattices and μ a non- negative set function defined on $\hat{C}$ with $\mu(\phi) = 0$ [if $\phi \in \hat{C}$], then μ has a unique extension to a measure on the algebra λ generated by $\hat{C}$ with some special conditions.

Key words: *Semi-algebra, algebra generated by semi-algebra, semi-algebra of partial lattice.*

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Paper ID: ICCIASH-2021/203

Synthesis and Characterization of thermal, UV, Optical band gap of Thiourea doped Ammonium Chloride inorganic crystal

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Abstract:

A listless evaporative solution growth method is used to obtain thiourea ammonium chloride (TAC) seed crystals. The existence of various molecular groups was reported by FTIR analysis. The optical properties of absorption and transmission of the crystal are analyzed by ultraviolet-visible-near infrared spectroscopy. At the cut-off wavelength of 290 nm, the optical band gap resolution of the TAC crystal is 4.427eV. The XRD reading shows the intensity of the dust. Research on XRD powder shows that its crystal structure is orthorhombic crystal, and its lattice parameter are, a = 5.502A^0, b = 7.685A^0, c = 8.573A^0, α=β=γ=90^0, and it is located in the JCPDS manual the original space group (P) pointed out in. In this study, the thermal behavior of the named crystal was studied. Therefore, mass loss and endothermic and exothermic events are recorded at various temperatures. Besides the morphological study was done to examine its crystal perfection, the non-linear optics (NLO) function of TAC crystals has been proven through the second harmonic generation (SHG) test.

Key words: *TAC, NLO, XRD, SEM, Optical band gap, TGA, Photon energy, SHG.*

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Paper ID: ICCIASH-2021/419

Racial and Cultural Hybridity in the Select Novels of Amitav Ghosh

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Abstract:

Amitav Ghosh is one of the most cosmopolitan of contemporary Indian English writers. His significance has its roots in cosmopolitanism. He is a writer who travels and maps and re-maps the world drawing connections across the boundaries of modern states. His fiction has exhibited a remarkable geographical spread. The cultural space for most of Ghosh's characters is huge. It is a vast borderless region with its own hybrid languages, cultures, values, and practices which circulate without national or religious boundaries. His novels celebrate the characters through a succession of once imaginary homelands into that third space where boundaries are distorted and cultures collided, overlooking perplexities and complexities in their home atmosphere. This paper makes an attempt to analyze how Ghosh explores hybridity, culture and race in The Shadow Lines, The Hungry Tide, Sea of Poppies, River of Smoke and Flood of Fire.

Key words: *Hybridity, Culture, Race, Identity.*

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Paper ID: ICCIASH-2021/418

Globalization and Transnational Capitalism Giving Rise to a New Colonial Discourse – A Postcolonial Critique

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Abstract:

This paper is to focus upon how globalization, at the moment of decolonization in the aftermath of the World War II, represents a new way of perceiving the world that has distinguished the present from the world of colonialism and neocolonialism to such a degree that even the vocabulary of colonialism appears distant. It argues how the preoccupation with colonialism and its legacies with an exaggerated view of the colonial past over contemporary realities and an obliviousness to the reconfiguration of colonial legacies by the contemporary restructuration of power have changed the practices of capitalism into transnational capitalism and the nation-state has also called forth a reconsideration of the colonial past. Contemporary postcolonial criticism has called into question the very meaning of 'colonialism' due to a distinct shift in postcolonial discourse from the political and economic to the cultural and personal experiential. The transnational capitalism has reinvented and opened itself up to the formerly colonized who are now participants in the new global operation and this changing motion has forced a redefinition of both the nation and the national cultures. This paper will also explore how postcolonial elites seem to be trapped between neo-liberalism and traditionalism even though they have assumed responsibility for managing formerly colonial or even revolutionary societies and are unable to think beyond the world of transnational capitalism and the ideology of globalization. Colonialism as an idea today does not carry much weight when everyday life has been colonized and the postcolonial interpretation of the past tend to promote or play into the hands of a globalized capitalism.

Key words: *globalization, colonialism, transnationalism, decolonization, capitalism, postcolonialism.*

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Paper ID: ICCIASH-2021/605

EUROCENTRISM AND POSTCOLONIALITY IN THE WORKS OF ISMAIL KADARE

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Abstract:

Based on currently accepted definitions of postcoloniality, the erstwhile Soviet Union could be classed as a colonial power. However, the Eurocentrism inherent in the culture of its former members prevents them from acknowledging their postcoloniality. Albania is one such nation. Not only was it a province of the Ottoman Empire for centuries but also a satellite state of the Soviet Union. Although Albania broke away from the USSR in the 1960s, it remained under the aegis of Soviet ideology as its nationalist dictator Enver Hoxha was a staunch Stalinist. It was under these influences that Albania's greatest literary export, Ismail Kadare, was writing.

Kadare's position as a writer is unique. His desire to valorise Albanian culture betrays his postcoloniality. However, his intentions behind showing the superiority of his nation's culture over those of its colonists are Eurocentric. Concurrently, he believed in literary freedom and deliberately subverted the literary diktats of socialist realism. He refused to show an idyllic socialist society and created protagonists that took up their fated roles joylessly and reluctantly. It is in this way that he 'asserted difference', as Ashcroft et al stated in *The Empire Writes Back*, from the ideology of both his literary and ideological oppressors.

Key words: *Eurocentrism, Ismail Kadare, postcoloniality, Soviet Union, Albania.*

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Paper ID: ICCIASH-2021/604

Searches for a New Ideology in Feminist Perspective: A Theoretical Study

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Abstract:

Liberal Feminism has its roots in enlightenment. Enlightenment is a theory which gives importance on reason and knowledge. Liberal Feminism is a feminist theory which states that women like men are reasonable creatures. So women should enjoy equal rights with men. Like Liberal Feminism democracy also tries to provide equality of gender. One can taste the proper fruits of democracy when equality, freedom and justice are provided to the people without any discrimination on the basis of caste, class, religion, gender, etc.

The paper makes an attempt to discuss the link between Enlightenment, Liberal Feminism and Democracy. Attempt has also been made to discuss whether the ideals of Enlightenment, Liberal Feminism and Democracy are practiced for women or not in our own state Assam. Assessing the reality the paper tends to offer some suggestions in this regard.

Gender Democracy-- as a normative, ethical and moral concept, opposes gender hierarchies and gender roles. For the empowerment of women in true sense, Gender Democracy is a need of the time.

Key words: *Enlightenment, Liberal Feminism, Democracy, Gender Democracy.*

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Paper ID: ICCIASH-2021/204

Metasurface Lens- New Building Block of Multi-functional Optics

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Abstract:

Optical metasurfaces (OMs) have materialized as potential contender to break the borders of bulky optical elements. OMs offer a new technique of light manipulation based on scattering from resonant nanostructures rather than conventional refraction and propagation, consequently offering efficient phase, polarization and emission control. This viewpoint highlights state of the art OMs and represents new wave of research for future applications, such as active generation, manipulation and detection of light for quantum technologies, holographic projection and sensing. Specifically the depth of focus (DOF) indicates the tolerance of the imaging displacement. The axial long-focal-depth is significant in practical applications, including optical imaging and communication. The importance of extending the DOF is rapidly increasing with the advent of metasurface lenses. Angular modulation, as a promising way to extend the DOF, offers an additional degree of freedom to improve the imaging quality. Here we attempted review on an angular modulated metasurface lens for extended DOF imaging by means of applying the geometrical phase. The polarity of circular polarization independence and broadband characteristic of angular modulation yield the potential of robust and efficient extension of the DOF imaging, thus providing novel opportunities for highly integrated optical circuits.

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Paper ID: ICCIASH-2021/807

UNDERSTANDING ACADEMIC PERFORMANCE: PERSPECTIVES FROM SOCIAL NETWORKING USAGE

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Abstract:

In the networking era**,** social networking sites are a large part of the global online experience, which played a crucial role in people's lives. These sites are more popular among teenagers and young adults as they can easily interact with others who share a common interest in education, music, movies, and so on. Despite this popularity, these sites affect the student's personal as well as academic life. So, the fundamental purpose of this study is to understand the positive and negative impact of social media usage on the academic performance of students. A conceptual approach was used to gather extensive knowledge about the study. It is concluded that social media is a useful tool for students in their academic life as they can easily interact with their friends and professors, improve learning motivations, encourage flexible modes of learning and participate in group discussions online. Despite these benefits, there are many chances of addiction and distraction of attention caused by these social networking sites which can impact students' academic life like wastage of time on chatting, grammar and spelling mistakes, lower GPA. It is imperative that they can maintain a balance between the use of social media and academic life. Government and private institutions should take steps to raise intellectual awareness of the risks and benefits of using these platforms, as well as educate parents about how to track their children. Higher educational institutes should conduct further field studies on social networking sites, examine the realities of their use by different groups of society, and use them to aid the educational process.

Key words: *Social media, Social networking sites, Academic performance.*

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Paper ID: ICCIASH-2021/315

TRADITION VERSUS TRANSITION, A STUDY FROM THE NOVELS OF SHOBHA DE AND ARUNDHATI ROY

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Abstract:

A close study of the novels of Arundhati Roy and Shobha de portrays the fate of women protagonists who tried to break the traditional code of conduct and stood indomitable against the hegemonic forces, by paying a heavy price for transgressing the laws. This paper reveals the character of women protagonists and how they were torn between a society, deep rooted in traditional boundaries and modernity which gave rise to conflicts and confusion with the existing Indian values.

Key words: *Transgressing the laws, traditional code of conduct, conflicts, confusions.*

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Paper ID: ICCIASH-2021/504

Micropropagation of Pongamia pinnata L. from cotyledonary node

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Abstract:

An efficient protocol was developed for micropropagation of *Pongamia pinnata* L. from cotyledonary node. Cotyledonary node was cultured onto Murashige and Skoog medium (1962) supplemented with 6-Benzylaminopurine, adenine sulfate, 6-Benzylaminopurine in combination with adenine sulfate and 6-Benzylaminopurine in combination with kinetin. The greatest mean number of lateral shoots (8.77) was obtained when cotyledonary nodes were cultured on Murashige and Skoog medium with 1.0mg/L each of 6-Benzylaminopurine and adenine sulfate. Early and maximum root induction was noted when shoots were cultured on half strength Murashige and Skoog medium enriched with 0.2gm/L Activated Charcoal. *In vitro* grown plants were successfully hardened in a mixture of soil and cow dung in ratio of 3:1 and transferred to field. During hardening 86.67% plants survived and 100% survival rate was recorded in field condition. After three months of field transfer it was noted that *in vitro* raised plants were increased in size and developed new shoots.

Key words: *Pongamia pinnata, cotyledonary node, 6-Benzylaminopurine, adenine sulfate, activated charcoal.*

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Paper ID: ICCIASH-2021/207

Spectral and Thermal Analysis of Ho^{3+} Doped in Zinc Lithium Sodalime Magnesium Molybdate Glasses

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Abstract:

Glass sample of Zinc Lithium Sodalime Magnesium Molybdate (45-x) MoO_3:10ZnO:10Li_2O:10CaO:10Na_2O:15MgO:xHo_2O_3, (where x=1,1.5 and 2 mol%) have been prepared by melt-quenching technique. The amorphous nature of the prepared glass samples was confirmed by X-ray diffraction. Optical absorption, Excitation, fluorescence and Thermal spectra were recorded at room temperature for all glass samples. Judd-Ofelt intensity parameters Ω_λ (λ=2, 4 and 6) are evaluated from the intensities of various absorption bands of optical absorption spectra. Using these intensity parameters various radiative properties like spontaneous emission probability, branching ratio, radiative life time and stimulated emission cross–section of various emission lines have been evaluated.

Key words: *ZLSLMM Glasses, Optical Properties, Judd-Ofelt Theory, Thermal Analysis.*

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Paper ID: ICCIASH-2021/608

INHERENT AND INALIENABLE NATURE OF HUMAN RIGHTS: A DISCUSSION WITH SPECIAL REFERENCE TO THE PHILOSOPHIES OF LOCKE, PAINE AND KANT

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Abstract:

Human right is an important modernday concept which has gained wide coverage during the last few decades. Although modern coined ,the idea of human rights can be traced back to many centuries and cultures . Different philosophical thinking and ethical believes contributed towards the development of the idea of human rights. John Locke, Thomas Paine and Immanuel Kant etc were some of these philosophers. These philosophers discussed a lot about the inherent and inalienable nature of human rights in their philosophy. For these philosophers human rights are grounded in man's rational nature .As such they are the natural rights of human being which are deduced from his nature. Human rights are essentially related to human nature and as such cannot be alienated from the idea of human. They are inherently related to all human beings and are inalienable from them. To try to alienate human rights from human being is to destroy one's humanity. This paper is an attempt to make a conceptual analysis of inherent and inalienable rights and to show how the philosophers like Locke, Paine and Immanuel Kant spoke about inherent and inalienable nature of human rights a long time ago and thus contributed towards the development of the modern concept of human rights. The study is based on secondary source of information which is collected from books, journals and other published documents. The study is descriptive and analytic in nature.

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Paper ID: ICCIASH-2021/716

CFD Analysis of Earth Air Heat Exchanger (EAHE) for Storage system

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Abstract:

The temperature of earth at below ground level around 2 to 5m, is almost remain constant through out of year. This temperature called as Earth Undisturbed temperature EUT. This EUT is higher than atmospherics temperature in winter season. While in reverse condition can find in summer season. In summer season, EUT is always lower than atmospherics outside temperature. The heat exchange is set up at below ground approximately 2 to 5m. The heat exchanger is device exchange heat and give satisficed utilization of EUT. In summer, the ambient is air pass through this below ground heat exchanger and provide cooling effect to any domestic and industrial building with the help of EUT. while opposite in Winter season the ambient is air pass through this below ground heat exchanger and provide cooling effect to any domestic and industrial building with the help of EUT. In both seasons like in summer and winter; heat exchanger gives efficient result of cooling and heating result respectively. It was found that our aim of designing made us to face designing and analyzing of it by implanting various types of basic fundamentals related to the concepts of Heat Exchanger.

Key words: *Earth Air Heat Exchanger (EAHE), Earth Undisturbed temperature (EUT), ANSYS CFD, storage system.*

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Paper ID: ICCIASH-2021/205

GREEN SYNTHESIS OF SILVER NANOPARTICLES USING ARACHIS HYPOGAEA L. EXTRACT

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Abstract:

Silver nanoparticles (NPs) were rapidly synthesized by treating silver ions with a *Arachis hypogaea* extract. Plant extract is very cost effective and eco friendly and thus can be economic and effective alternative for the large scale synthesis of silver nanoparticles. Characterization of newly synthesized silver nanoparticles was made using UV-vis spectroscopy, Fourier Transform Infrared (FTIR) spectroscopy, X-ray diffraction (XRD) and Scanning electron microscopy (SEM).The results indicated that the plant extract, which have aldehyde groups, played a reducing and controlling role during the formation of silver NPs in the solutions.

Key words: *Arachis hypogaea extract, Silver Nitrate Solution, Silver Nanoparticles.*

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Characterization of MgO nanoparticles by green synthesis method using black vitex negundo leaf extract for their antibacterial activity

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Abstract:

Objectives: In the present research the novel pharmaceutic black vitex negundo (Karunochi) leaves are extracted from MgO nanoparticles Materials: The reduced lingering dampness fresh leaves were prepared. The concentrate utilized for the nano particles (MgO) was set up by putting 50g of washed dried fine cut leaves in 250 ml glass container alongside 100 ml of sterile refined water. The blend was then bubbled for 30 minutes until the shade of the fluid arrangement changes from watery to light green. The concentrate was allowed to cool to ambient temperature before being sifted through channel paper. The concentrate was put away in a fridge to be utilized for additional investigations. Methods: The residual sample characterized by the methods of X-Ray diffraction, Fourier transforms infrared spectroscopic analysis, UV spectral analysis. Results: Photon energy of MgO nanoparticles estimated as 5.9223eV in addition its optical absorption shown vital results also the FTIR study confirms the presence of more organic molecules. Novelty: In the present research the optical band gap energy was calculated which is not at done before this as per the evidence of literature and XRD studies evident used to estimate particle size as 22nm and its d spacing values (hkl). The present research is useful to treat covid-19 patients as supplementary medicine and can used to treat as garlic against pests control and for cough remedy and it has the nature of act as antiseptic.

Key words: *Karunochi, XRD, Particle size, FTIR, Photon energy.*

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Paper ID: ICCIASH-2021/424

THE PERSONAL AMIDST THE POLITICAL: UNDERSTANDING DISPLACEMENT-INDUCED TRAUMA IN SUSAN ABULHAWA'S MORNINGS IN JENIN

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Abstract:

The topic of healing trauma has entered the modern cultural dialogue due to the mainstream acceptance of alternative psychological healing. Past trauma has been proven to be unable to exit the body unless it has been confronted and worked through, as theorized by Cathy Caruth in *Unclaimed Experience*. Such disturbing conditions are especially prominent in the case of trauma stemming from violent political upheaval. Novelist Susan Abulhawa, in her novel *Mornings in Jenin*, captures the painful process of being forced to exit her homeland Palestine following the Nakba of 1948. Drawing on firsthand experience, Abulhawa expresses how trauma affects the Abulheja family as they navigate life in strange places while holding on to memories and hopes of returning to their homeland. This paper highlights the complex efforts of the displaced Palestinians to overcome their trauma, and explores the position that a multidimensional perspective on such conflicts provides genuine understanding on the harmful psychological effects of war.

Key words: *Trauma, Healing, Memory, Homeland, War.*

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A Conceptual Framework of application of Stakeholders theory towards Environmental Disclosure and Need of Environmental Disclosure

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Abstract:

The term Environmental disclosure is the public disclosure of environmental information by the firms. This also monitors environmental impact of the industries. It also provides information on Environmental management practices within the regulatory frame work. This prepares, presents and communicates information relating to an organization's interactions with the natural environment. The Stakeholder theory is a theory of organizational management and business ethics. The various stakeholders include employees, management, local communities, creditors and others. It addresses morals and values in managing an organisation. In this study an attempt has been made to understand the concept of Stakeholder theory. It also examines how the stakeholder theory can be applied to Environmental disclosure. The stakeholder's opinion of the need for adopting Environmental disclosure in companies has also been studied. The disclosure affects different stakeholders in a different perspective.

Key words: *Environmental Disclosure-Stakeholders Theory-Stakeholders Power.*

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Paper ID: ICCIASH-2021/729

Revolution in Teaching & Learning

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Abstract:

Offline education entails a student's attendance at a school, in a classroom, and in front of an instructor. It's easier to guarantee pupils are paying attention to the instruction when they learn offline. Some students also find that offline learning helps them retain knowledge and skills more effectively than online learning. Classroom instruction improves pupils' critical thinking skills. Online education, often known as online learning, is a flexible learning system that allows students to study exclusively online on their own computer at home or wherever they choose. Face-to-face contacts between students and teachers are not required, allowing students to learn from anywhere in the world. You can study online in a variety of methods. First and first, and by far the most efficient method, is to do it, is to book an online course with a teacher. This way, you'll get a well-structured education as well as all of the necessary learning resources. This study is based on a survey of students and teachers about online teaching and learning. In light of this, we examine the perspectives of "students" and "teachers" on online learning and teaching. An online survey is conducted for both teachers & students. Data was collected from different colleges . The result of this questionnaire revealed that regarding teacher's point of view & Students point of view is classroom teaching is best method. This case study aims to find out student's & teacher's View about Online Teaching & Learning.

Key words: *Online Teaching, Online Learning, Student's View, teacher's view, Offline Teaching & Offline Learning.*

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Paper ID: ICCIASH-2021/738

Predicting Foreign Tourists Arrival in India for Year 2025

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Abstract:

India is growing in tourism industry. The share of India in international tourist arrivals in 2018 was 1.2%. India accounted for 5.0% of international tourist arrivals in Asia Pacific Region in 2018, with the rank of 7th. Tourism continues to play an important role as a foreign exchange earner for the country. In 2018, foreign exchange earnings (FEE) from tourism were US$ 28.59 billion as compared to US$ 27.31 billion in 2017, registering a growth of 4.7%. Number of domestic tourist visits in India during 2018 was 1854 million (revise) as compared to 1657 million in 2017, with a growth rate of 11.9 %(as per Indian Tourism Statistics Report 2019). This paper attempt to forecast tourists' arrival using statistical time series modeling techniques—Double Exponential Smoothing and the Auto-Regressive Integrated Moving Average (ARIMA). Forecasting is very important in making future decisions which is useful in increasing the capacity of the available staff, infrastructure services in order to meet expected future service delivery. The data used in study is secondary data, collected from Indian Tourism Statistics 2019.Stationarity of data was checked with Autocorrelation Function (ACF) and Partial autocorrelation function (PACF), after confirming the stationarity, Autoregressive Integrated Moving Average (ARIMA) and Vector Auto regression (VAR) models were used. Akaike Information Criteria (AIC), Schwartz Bayesian Criteria (SBC), Mean Absolute Percentage Error (MAPE), R square and RMSE were used to test reliability of model. The forecasts from these models were validated. The results indicate that ARIMA (0, 1, 0) is more suitable method with the use of SPSS software package for forecasting of Foreign Tourist Data. Foreign Tourist is expected to be 13.5 million by 2025.

Key words: *Tourism, forecast, ARIMA, Foreign Tourist Arrival.*

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Paper ID: ICCIASH-2021/810

Practices and Public Perception on Municipal Solid Waste Management in Bhubaneswar

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Abstract:

Solid waste management is a key challenge to several municipal corporations across the globe. The growing urban population and mounting per capita waste rate are the major components making the problem more acute. Inefficient management of solid waste by municipalities lead to disgusting condition of streets and outbreak of diseases. Feedback from stakeholders help organizations to identify the performance gaps and to take actions for perfection. The contemporary study makes an attempt to assess the public perception on the performance of Bhubaneswar Municipal Corporation (BMC) in relation to solid waste management. The outcome of this study is prospective in supporting local governments and BMC in particular.

Key words: *Solid Waste Management, Bhubaneswar Municipal Corporation (BMC), Public Opinion.*

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Paper ID: ICCIASH-2021/721

MUTUAL COUPLING REDUCTION FOR ULTRA WIDEBAND COMMUNICATION USING G SHAPED ELECTROMAGNETIC BAND GAP STRUCTURE (EBG)

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Abstract:

This paper represents the design and performance analysis of fractal regular slotted antenna array for ultra wide band (uwb) communication system, by considering the rectangular microstrip patch antenna as reference antenna and analyzing different antenna parameters including reflection coefficient, vswr, transmission coefficient, mutual coupling between the arrays.

Key words: *Fractal antenna, rectangular slot configurations, ultra wide band, antenna parameters, reflection coefficient, transmission coefficient, mutual coupling.*

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Paper ID: ICCIASH-2021/318

Overview of Arsenic as a chemical contaminant in the freshwater environment

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Abstract:

The gift of water is one of the greatest blessings to humanity and other living organisms. The major source of consumption of water for most of the organisms present on earth is derived from either surface water or groundwater. The crucial role of groundwater is it is one of the major sources of water consumption for millions living in rural and urban areas worldwide. Due to the rapid progress in developing industries, agriculture and to make it easier and comfortable for survival there is a huge compromise with the environment. Surface water is the most susceptible to contaminants compared to groundwater. Arsenic being one of the most common metalloids to be found on the earth's surface is a natural contaminant present in groundwater. But, in India groundwater is used intensively for irrigation and industrial purpose, which is overexploiting causing aquifer contamination. Another major cause of groundwater contamination is the unscientific means and insufficient knowledge of groundwater flow dynamic processes which leads to mineralization and leaching of rocks thus increasing the mineral content in water more than the permissible levels of consumption.

Key words: *Arsenic, groundwater, arsenic poisoning, water table, contaminants.*

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Paper ID: ICCIASH-2021/317

Evolution and impact of e-learning due to outbreak of COVID-19 to education

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Abstract:

Educational e-learning methods is a new technique that has emerged and flourished in the educational system due to the growth of information technology. Social networks among students are highly prized both as regards communication and as a medium for knowledge sharing and for the establishment of academic groups. Mining of education data (EDM) may be described as the application of conventional data mining techniques to educational data analysis for educational problem-solving purposes. Increased control over students' success is required for academic institutions. This means that valuable information is required from the wide data sets of available students in order to advise instructional policies on how best to increase retention rates for students, delegate teaching and support resources, or develop action plans to reduce factors that negatively affect the performance of students. Although some works studied these methods in order to classify academic mistakes of students. In a few years, some optimization techniques have been developed to predict student performance, including Ant Colony Optimization and Grey-wolf Optimization. This study analyses the efficiency of a newly developed Elitist Optimization for Learning (TELBO) algorithm, which is used for real-world student classification by means of an efficient Pi sigma Recurrent Networking Network (PSRNN) pandemic . In the wake of the pandemic, most institutions of higher education have shuttered their physical campus for the academic year in developing and developed countries of the globe. Approximately one and half billion students of all primary, secondary and tertiary education in the world have stopped going to their Institutions. Educators were not finding short-term solutions. The students and Institution face several challenges related to financing and online infrastructure. College and University students are mature students who are mature enough to cope up with online work and technologically savvy enough to use new platforms. The use of online education solutions in recent months has been an essential phenomenon. Educators are applying a 'first aid' approach by switching entirely from blackboard to online methods, which becomes essential due to lockdown of Institutions. Many industries have come up with new technologies for online education which may extend beyond pandemic online education. This painful and stressful time may give us an introspection of our education systems. The pandemic has opened a challenge to educators, learners and society in developed and developing countries to restructure our education systems. A digital technology awareness becomes essential to progress in a world in which social distancing, greater digitalization and digitally-centered communications may become the norm of corona challenges to us to deliver education. About a decade, higher education has experienced rapid growth through the introduction of Internet and web-based technology as part of the student learning experience. Transition has resulted in the widespread acceptance of mixed learning processes. Advances in science have redefined the limits of online learning, identifying it as an evolutionary phenomenon that is made up of a variety of interrelated aspects involving students, instructors, technology and physical and virtual spaces. In this paper, we present an in-depth literature review of various educational data mining techniques to forecast academic success.

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TWITTER SENTIMENT ANALYSIS

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Abstract:

In today's world, Social Networking websites like Twitter, Facebook, Tumbler, etc. play a very important role. Twitter is a small blogging platform that provides a large amount of data that can be used for a variety of emotional analysis programs such as guessing, reviewing, selection, marketing, etc. Process Analysis is the process of extracting information from a large amount of data, and divides it into different categories called emotions.

Emotional analysis is the task of finding people's ideas and intimacy about certain interesting topics. Whether it's a product or a movie, people's opinions are important, and they influence the process of making people's decisions. The first thing a person does when they want to buy a product online, is to see the kind of reviews and comments written by people. Social networks such as Facebook, blogs, twitter have become a place where people post their ideas on specific topics. Emotions of tweets on a particular topic have many uses, including company stock market analysis, movie reviews, and psychology to analyze the feelings of people with a variety of applications. of attitudes, ideas, views and feelings from the text, speech, tweets and sources of information using Natural Language Processing (NLP) Emotional analysis involves the classification of ideas into categories such as "positive" or "negative" or "neutral". Also called participatory analysis, opinion polls and appraisal releases.

Sentimental analysis has a variety of applications. It is used to generate ideas for people on social media by analyzing the feelings or thoughts they express in a written way. Feature Analysis focuses on the domain, i.e. the results for one domain cannot be applied to other domains. Sentimental Analysis is used in many real-life situations, to get updates about any product or movies, to get the financial report of any company, to predict or market.

Twitter is a small blogging platform where anyone can read or write short forms of messages called tweets. The amount of data collected on twitter is very large. This data is not created and written in the native language. Twitter Sentiment Analysis is a process of finding tweets on a particular topic and predicts the sentiments of these tweets as constructive, negative or neutral with the help of different machine learning methods.

Key words: *Machine Learning, Tokenization, Grinding.*

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Paper ID: ICCIASH-2021/428

REPRESENTATION OF THE AMISH - A DISCOURSE OF STRUGGLE WITH MODERNITY

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Abstract:

The Amish are seemingly unique in their lifestyle, detaching themselves from the advanced world that evinces modern behavior. They engage in simple living, robustly embracing the stauch beliefs of Christianity by propagating their ideas from the Bible. The Amish way of life, to a greater extent, is at odds with modern society, and they live in perpetual tension with the mainstream American ethos. However, the Amish have persistently defended their fabric of culture and beliefs against the pressures to assimilate into the mainstream culture. This paper probes the representation of the Amish and the discourse of their struggle with modernity. It aims to divulge the clash of worldviews between the Amish ethos and mainstream America. The paper also unveils points of misrepresentation of the Amish in popular culture and the social fragmentation of the community.

Key words: *Amish Community, Culture, Tradition, Identity, Mainstream, Struggle, Representation, Religion, Clash of worldviews, Beliefs.*

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Paper ID: ICCIASH-2021/105

Existence and Stability of Equilibrium Points in the Elliptic Restricted Four Body Problem with Radiating and Oblateness

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Abstract:

This Paper studies the existence and stability of equilibrium points in the elliptic restricted four body problem with bigger primary as a source of radiation and two as oblate when masses of the two primary bodies are equal. In the restricted four body problem, where three of the bodies are moving in elliptical around their common centre of mass fixed at the origin of the coordinate system, while fourth one is infinitesimal. The fourth body does not affect the motion of the three primaries. We considered that the two masses of the primaries m_2 *and* m_3 are equal to μ and the dominant mass m_1 is $1-2\mu$. We found the equilibrium points of the system and we investigate their variation. Stability for various values of radiation factor and oblateness is also studied.

Key words: *Elliptic restricted four body problem, Equilibrium points, Oblateness, Radiation factor.*

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Paper ID: ICCIASH-2021/104

Modeling of Subthreshold Drain Conduction of Ballistic of Gate All Around Silicon Nanowire MOSFET

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Abstract:

In this paper, present analytical modeling of subthreshold drain current gate all around MOSFET in subthreshold region is developed for low power and CMOS inverter applications. Based on the center/surface potential model derived subthreshold drain current in subthreshold region by using 2-D poisson equation in cylindrical coordinates with suitable boundary conditions. Further, comparative analysis of various device parameters such as oxide thickness (t_{ox}), silicon thickness(t_{Si}) and drain to source voltage (Vds) respectively on subthreshold drain current. The proposed model exhibits reduce DIBL of 15.2 mV/V, improved subthreshold slope of 63.56 V/decade, higher ON $5.93E^{-05}$ A and lower leakage current $3.73E^{-13}$A, higher threshold voltage 0.33V. An analytical result well matched with TCAD simulation under various biasing conditions.

Key words: *DIBL, sub threshold conduction, SCEs, subthreshold drain current, GAA.*

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Paper ID: ICCIASH-2021/740

To Enhance Security by Customize Novel Blowfish Technique

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Abstract:

With the advent of the internet, protection has become a major issue today. The past of safety permits a superior expertise of the development of safety tools. The net arrangement itself permitted for plenty of safekeeping fears to arise. Many corporations secure themselves from the net with the help of firewalls and encryption mechanisms. The corporations can create an "intranet" remains connected to the internet and secured it from possible threats. To maintain integrity of data healthier encryption techniques are required for improved safety. It is required to consider various issues such as key size, block size and encryption ratio for better encryption. Encryption is required to provide security of documents that are exported to secondary storage devices (such as pen drive, SD card) so that unauthorized access is not possible. It is very easy to decrypt the document if a key is stored along with the document on secondary storage. Instead of storing the key along with document it is better to generate cryptographic keys from user password while encrypting or decrypting the file. A new scheme to customize blowfish variable parameters (Key generation from user defined password) is proposed and evaluated on the hardness of keys for various encryption standards with proposed algorithm.

Key words: *Cryptography, Cipher, Encryption, Decryption, Data Encryption Standard, Advance Encryption System.*

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Household Consumption Expenditure on Energy in Urban India, 2005-12

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Abstract:

Over 2 billion people across the globe rely on traditional biomass for their daily energy needs. To overcome the negative effects of traditional energy on human health and the environment and to enhance the livelihood conditions of the poor, a transition towards cleaner and more efficient forms of energy is needed. Understanding household fuel choice and fuel switching is of vital importance in search for policies to support such a transition process.With consumers' purchasing decision being guided by the media at large, the expenses incurred on non-food items has visibly increased. Although income per capita has increased, the increase in income is less compared to the increase in expenses on non-food items. Hence, the only way out of the consumers is to substitute expenditures in favour of non-food items. In this paper, an attempt has been made to assess the role of micro and macro factors in determining the consumption expenditure on household energy consumption across the major 25 Indian States at the urban level considering three rounds of NSS Unit Level Data on Household Consumption Expenditure.

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Paper ID: ICCIASH-2021/742

Color and Texture Features based Skin Cancer Classification

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Abstract:

Skin cancer is a disease that affects the skin cells of the body. Skin cancer develops when the skin's cells are damaged and grow abnormally. Skin cancer is usually treatable if detected early. Skin cancer, on the other hand, can be fatal if not treated. From this paper we have made an attempt to classify the skin cancer by considering benign and malignant type of skin cancers. To classify the skin cancer in this proposed work we have considered the widely used texture features namely, HOG and LBP along with the color moments features are taken into consideration. The dataset contains 1800 benign and 1497 malignant skin cancer images are taken from standard dataset available in internet. As for recognition accuracy, in individual features the color moment features using KNN classifier have given 82.00%, in bi-feature combination, LBP with color moment features is obtained 81.90% from SVM classifiers, and at last combining all three features the highest 97.96% recognition accuracy is obtained from SVM classifier. The proposed method is robust and reliable as compare with other work.

Key words: *HOG, LBP, KNN, SVM, LDA.*

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Paper ID: ICCIASH-2021/743

Some Analysis on SINR of Ultra – Dense Multi – Tier Future Cellular Networks for 5G

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Abstract:

One of the important means by which 5G can be implemented is Ultra- Dense Multi – Tier (UDMT) future cellular network. For providing high data rate, low latency and better quality of service in mobile communication system its capacity must be high. It requires Signal to Noise plus Interference ratio (SINR) of the system must be high. SINR of a communication system is very important and its quality solely depends on this. In this paper we have done some analysis on SINR of UDMT system. It has been found that for high SINR, Spectral efficiency and Network Bandwidth should be high. We have to choose correct values of cell load and densification factor of network so that it can support SINR and channel capacity of this system. These are directly related with spectral efficiency and energy efficiency of the system.

Key words: *5G, Densification, Network Load, Spectrum Efficiency.*

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Paper ID: ICCIASH-2021/425

Humanitarian precepts and the relevance of Jawaharlal Nehru's Tryst with Destiny speech and ideals today: A critical review

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Abstract:

The persuasive first Parliament speech of Jawaharlal Nehru's Tryst with Destiny in free India has been an inspiration for many to transform the society in large, and the whole the nation itself to restore the democratic ideals of peace and prosperity. The humanitarian, social and secular approaches of Nehru's philosophy can be witnessed through this landmark speech of the twentieth century. The transfer of power, the sense of unity in diversity, the taste of equality, the spirit of freedom, and the feel for humaneness remains quintessential in visualizing the building of any good nation and to promote convivial connectivity with the whole world. This paper attempts to reflect the democratic doctrines of Nehru and highlights the essentiality of those creeds and dogmas to eradicate poverty and strengthen social justice in the society. Further, this paper emphasizes on highlighting the self-consciousness move of a great leader in evoking the spirit of reformation and accelerating the masses towards democratic move and new nation building.

Key words: *Democracy, freedom, humanitarian, Jawaharlal Nehru, secularism, social justice, Tryst with Destiny.*

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Energy management strategy of a photovoltaic electric vehicle charging station

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Abstract:

The adoption of the photovoltaic electric vehicle charging stations has been on the rise. In this paper, a grid connected electric vehicle charging station powered a by photovoltaic solar system and a pack of batteries as storage system, is evaluated and analyzed. The most important parameter for supervising the system is the direct current bus voltage. The grid or the energy storage system can supply the electric vehicle charging station to maintain the bus voltage at its level. This supervision is tested by simulating the charging system under different irradiance conditions taking into account the cost of the energy transmission and the state of charge of the battery. The results validate the performance of the proposed energy management and the proper operation of electric vehicle charging station.

Key words: *Electric vehicle, charging station, photovoltaic, Management.*

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The Influence of Pulsating Throughflow on the Onset of Electrohydrodynamic Instability in Rotating Nanofluid Saturated Anisotropic Porous layer: A Realistic Model

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Abstract:

In this paper, a theory of pulsating throughflow a rotating nanofluid saturating anisotropic porous layer heated at the lower surface with the inclusion of a vertical AC electric fields is developed for realistic boundary conditions, in which volume fraction flux of nanoparticles is taken to be zero on the isothermal boundaries. The basic profile for temperature gets altered for this flow and the volumetric fraction of nanoparticle vary from linear to non-linear with layer height, which marks the stability expressively. The exact solutions of the eigen-value problem are obtained analytically using one term Galerkin technique and the expressions of the thermal Rayleigh number for onset of both oscillatory and stationary modes are derived in terms of a variety of non- dimensional involved parameters. The numerically computed values of the thermal Rayleigh number for stationary modes are plotted graphically. The pulsating throughflow, thermal anisotropic parameter, mechanical anisotropic parameter, rotation, and Lewis number are found to decrease size of the cellular stationary modes, whereas it is increase with the rise in the values of the modified diffusivity ratio, the electric Rayleigh number, the medium porosity and the nanoparticle concentration Rayleigh number. The occurrence of oscillatory mode is ruled out for the realistic boundary condition.

Key words: *Nanofluid, Galerkin Weighted Residual method, Pulsating throughflow, Electric field, Rotation and Anisotropy Porous medium.*

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Teachers attitude towards Information and Communication Technology (ICT) in relation to their Possession and Usage of Computers

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Abstract:

Technology is not an event; it's just part of the everyday learning. Information and Communications Technologies (ICT) education is basically our society's efforts to teach its current and emerging citizens valuable knowledge and skills around computing and communications devices, software that operates them, applications that run on them and systems that are built with them. ICT has the potential to be used as a supportive educational tool enabling students learning by doing. ICT can make it possible for teachers to engage students in self-paced, self-directed problem-based or constructivist learning experiences; and also test student learning in new, interactive, and engaging ways that may better assess their understanding of the content. The evolution of Information Communication Technology (ICT) gave birth to the cyber space wherein internet provides equal opportunities to all the people to access any information, data storage, analyze etc. with the use of high technology. ICTs open up new horizons for progress and the exchange of knowledge, education and training, and for the promotion of creativity and intercultural dialogue. ***Method:*** The Survey method was adopted for this study. The present study consisted of 160, secondary school teachers of Ranga Reddy, Medchal, Warangal and Khammam Districts, Telangana state. Attitude towards the use of Information and Communication Technology in Teaching Scale (ATUITS) developed by Dr.S.Rajasekar was used for the present study. For statistical analysis and hypothesis testing, Mean and F-test were applied. ***Findings:*** The result reveals that there was a significant difference between the information and communication technology (ICT) knowledge of secondary school teachers with respect to possession and usage of computers. Teachers those who uses computer daily, were better than weekly usage teachers and monthly usage teachers.

Key words: *Information and Communication Technology, Knowledge, Computers.*

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