



3.4.4

FIRST PAGE OF RESEARCH PAPERS PUBLISHED IN  
SCOPUS/WEB OF SCIENCE/UGC CARE INDEXED  
JOURNALS IN THE YEAR 2021

  
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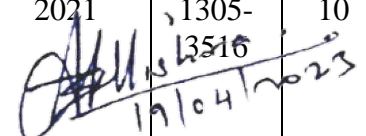
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## 3.4.4 First Page of Research Papers Published in Scopus/Web of Science/UGC CARE Indexed Journals in the Year 2021

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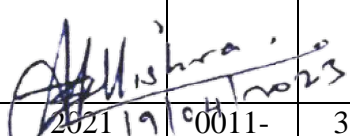
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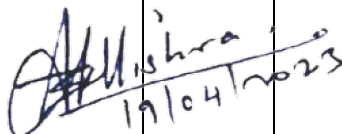
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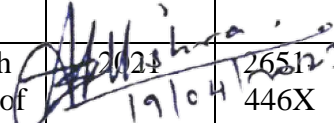
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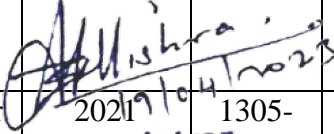
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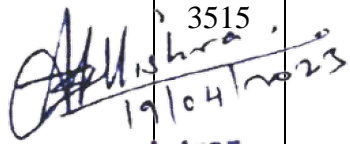
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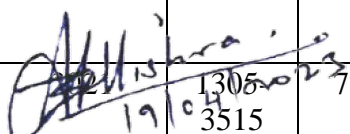
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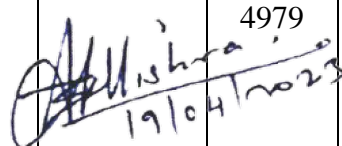
  
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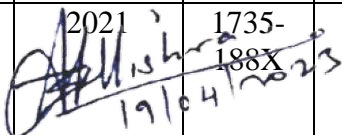
  
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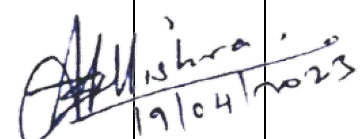
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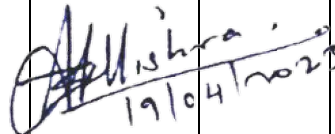
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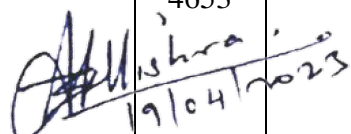
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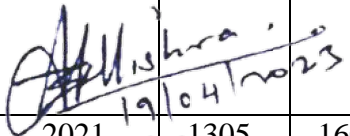
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# Mechanics of Advanced Composite Structures

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## Propagation Behavior of Love-Type Waves in a Poro-elastic Medium using Staggered Grid Finite Difference Scheme

J. Pal <sup>a\*</sup>, A. P. Ghorai <sup>b</sup><sup>a</sup> Department of Electronics & Applied Sciences, Usha Martin University, Ranchi, 835103, India<sup>b</sup> Department of Mathematics, BIT, Mesra, Ranchi, 835215, India

### KEYWORDS

Dispersion curves  
Phase velocity  
Stability analysis

### ABSTRACT

The analysis of the propagation behaviour of seismic waves in porous medium requires a mathematical backup. That is pictured here. The present study investigates the propagation behavior of Love-type waves in a poro-elastic medium. A staggered grid finite-difference (SFD) scheme in time-space domain formulation for Biot's equation of poro-elasticity is presented and applied to the problem. Complete theoretical seismograms for the horizontal and vertical components of displacement are obtained. The dispersion curves are evaluated considering the material parameters of different models. The stability analysis of the above numerical scheme is deliberated. From different graphs, it is noticed that there is a difference in phase velocity for various models. By observing the behaviour of the curve, we can understand the nature of the composite structure. Our outcomes also endorse that finite-difference modeling is an important numerical tool to acquire knowledge about the transmission of seismic waves in a porous medium. The agreement is excellent.

## 1. Introduction

We experience quite a few earthquakes every day throughout the world. Earthquakes can be violent enough to toss people around and destroy whole cities. Observations drive seismology, and improvements in instrumentation and data availability have often led to breakthroughs in seismology theory and our understanding of Earth structure. The information that seismology provides has widely varying degrees of uncertainty. The average radial seismic velocity structure of Earth has been known well, and the locations and seismic radiation patterns of earthquakes are now routinely mapped, but many important aspects of the physics of earthquakes themselves remain a mystery. Mathematics related to Earth systems faces major challenges by a new problem. It is also directly concerned with understanding the physical processes that cause earthquakes and seeking ways to reduce their destructive impacts on humanity. So, comprehensive research work can reduce the human losses and devastation of civil constructions. Therefore, these problems

may be analyzed more accurately by modeling seismic wave propagation in a different medium.

Generally, waves are classified broadly into two groups – progressive waves and standing waves. Seismic waves may fall into either of these two categories. Progressive ones propagate away from sources, whereas standing ones generated by strong earthquakes represent vibrations of the earth and are also known as free oscillations of the Earth. Based on the spatial concentration of energy, spatial waves are categorized into surface waves and body waves. Body waves can propagate deep into the inner part of the corresponding medium, whereas surface waves concentrate along the surface of the medium. Body waves are faster than the surface waves as it is observed that they arrive even before the surface waves are emitted due to an earthquake. The higher velocity of the body wave correlates to its higher frequency than a surface wave. Whereas the surface waves generally have higher amplitudes with lengthier wavelengths than the body waves. They are also exclusively accountable for any mutilation and demolition accompanying the earthquakes. Surface waves,



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## Materials Today: Proceedings

Volume 47, Part 17, 2021, Pages 6227-6230

## Development of mathematical model for drying of crops under passive greenhouse solar dryer

Asim Ahmad <sup>a, b</sup>, Om Prakash <sup>b</sup>  [Show more](#)  Share  Cite<https://doi.org/10.1016/j.matpr.2021.05.180> [Get rights and content](#) 

## Abstract

The design and development of greenhouse dryer operating under passive mode is being carried out under experimentation. The aim of the present study is to develop and fit a new model for drying of potato chips under greenhouse dryer operating under passive mode. The paper compares different mathematical models and it was found that the proposed model for drying of tomato flakes and potato chips followed by logarithmic model. Statistical evaluation of moisture ratio shows that the proposed model gives lowest root mean square error. The curve fitting ability of proposed model for both tomato flakes and potato chips is compared with other models. However there is no other theoretical basis offered for the best curve fit.

## Introduction

The utilization of solar energy is the most effective way to fulfill the present demand and decreases the utilization of conventional energy resources to a great extent. In the present study, the temperature for drying applications. Solar drying of agricultural product is one of the preservation methods because of its low cost and simplicity. Earlier scientists have developed various technologies for solar drying including direct solar drying, indirect drying, and

Greenhouse solar dryer is one of the types of direct solar drying. The simplest form of an insulated drying chamber with multiple drying trays where heated air is passed through and exposed to these hot air for a certain duration until get dried. Packed dried vegetables can be stored for several months at normal ambient condition [2]. Drying of crops is a complicated process involving simultaneous heat and mass transfer especially under transitory condition. The drying is performed under constant humidity velocity and drying condition of temperature. The measurement of loss of moisture with time. The plot of loss of moisture with time

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[Parabolic trough solar collectors: A sustainable and efficient energy...](#)

Materials Science for Energy Technologies, Volume 12, Issue 1, Ahmad, A., ..., Hasnain, S.M.M.



# Thermal performance and energy consumption analysis of retail buildings through daylighting: A numerical model with experimental validation

Om Prakash <sup>a</sup>, Asim Ahmad <sup>a b</sup>, Anil Kumar <sup>c</sup>, S.M. Mozammil Hasnain <sup>a</sup>, Ali Zare <sup>d</sup>, Pur

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## Abstract

The simultaneous impact of a building's electricity consumption and thermal performance is analyzed by taking a thermal model of a retail building located in Ranchi, India. A Baseline case of a rectangular footprint area is compared with four buildings with different footprint shapes and the South-West orientation. The thermal models for lighting of retail building are developed and results obtained were validated experimentally. Intensity of light is reduced corresponding to the amount of energy saved by upgrading to a T8 fluorescent lamp. Average daylight factor of retail building in hot summer was found to be 34.80% through simulation. Based on energy consumption it is found that, for temperate buildings, buildings with L footprints, and buildings with H footprints are preferable where the results encourage architects and engineers to work out an effective framework for reducing illumination energy and suitable lighting according to buildings layout.



## Keywords

Building shape; Electricity consumption; Building orientation; Energy efficiency

## 1. Introduction

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# Impact of Exhaust Gas Recirculation (EGR) on the Emission of the Dual-Fuel Diesel Engine with Hydrogen as a Secondary Fuel

Original Contribution Published: 27 September 2021

Volume 102, pages 1489–1502, (2021) [Cite this article](#)

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## Abstract

Hydrogen is one of the best alternatives for conventional fuels because it is free from carbon. Hydrogen has its own benefits and limitations in its use as a conventional fuel in automotive engine system. However, hydrogen increases the performance along with NO<sub>x</sub> formation. One of the methods to reduce NO<sub>x</sub> without comprising its performance is addition of exhaust gas recirculation (EGR). In the present investigation, the formation of

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# Drying kinetics and economic analysis of bitter gourd flakes drying inside hybrid greenhouse dryer

Advancements in Clean Energy for Sustainable Development Published: 10 November 2021

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## Abstract

In this study, a heat storage–based hybrid greenhouse dryer has been developed and analysed for drying bitter gourd flakes under the climatic condition of Ranchi, India. Proposed heat storage–based hybrid greenhouse dryer consists of a solar air heater with a 2.12-m<sup>2</sup> area, greenhouse dryer and DC fan to induce and force the air. The significant objective of the present study is to analyse the drying efficiency, drying kinetics, property analysis, economic analysis, embodied energy and CO<sub>2</sub> mitigation of the hybrid greenhouse




# Dynamic analysis of daylight factor, the energy performance under clear sky conditions for building: An experimental validation

Asim Ahmad <sup>a, b</sup>, Om Prakash <sup>a</sup>, Anil Kumar <sup>c</sup>, S.M. Mozammil Hasnain <sup>d</sup>  , Puneer Gaurav Dwivedi <sup>g</sup>, Anukul Pandey <sup>h</sup>

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## Highlights

- Evaluation of daylight factor inside hostel room in Ranchi city analytically experimentally.
- Determination of best and worst building orientation for thermal performance.
- Analysis and evaluation of minimum number of hours a building requires for thermal gain.
- Optimization of room temperature using HVAC.
- Overall heat transfer coefficients through walls and roofs through simulation.

## Abstract

This work focuses on daylighting performance analysis and its energy savings potential using dynamic simulation and its experimental validation. The thermal performance comparison with conventional building material has also been analyzed. The daylight factor and 11% and 1–21% for the floor and wall, which is within the thermal comfort range compared with experimental values. The best building orientation was found to be south. Wind speed was found to be more than 30 kmph, which is used effectively for building envelop. It leads to optimization of the room temperature. The heat transfer

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# An Empirical Study on Usability and Security of E-Commerce Websites

| Conference paper | First Online: 05 January 2021

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## Abstract

Advancement of the World Wide Web and technological improvement has made a huge revolution in the Internet world, especially in the commercial sector. Although the usage of the Internet for commercial purposes was introduced in the 1994, but the prone to use websites for e-commerce has been increased gradually. Nowadays, websites are considered

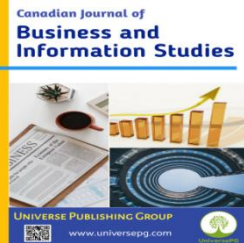


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**Canadian Journal of Business and Information Studies**

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## Assessment of the Heterogeneity Influencing the Superior of Non-Banking Finance Company for Assisting Consumer Durable Loans

Md. Saifullah Khalid<sup>1\*</sup>, Arvind Hans<sup>2</sup>, Mst. Sadia Arefin<sup>3</sup>, and Md. Rasel Hossain<sup>4</sup>

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### ABSTRACT

Customers purchasing behavior has changed radically in the course of the most recent couple of years. The study aimed to identify major factors determining consumer's choice rules of the non-banking financial company (NBFC) for availing consumer durable loans (CDLs). Essential information was gathered from 100 respondents by utilizing a survey including eight factors, recognized dependent on an audit of writing. Principal Component Analysis (PCA) was utilized as an extraction strategy by utilizing factor analysis. Three factors were isolated by using Eigenvalues standards and these three factors were assigned names such as service delivery, terms & conditions, and safety and security of fund respectively. It was suggested from the study that the non-banking financial companies aimed to expand their business should take cognizance of these factors in their marketing strategies.

**Keywords:** PCA, Durable loan, NBFCs, Selection criteria, Principal component method, and Factors analysis.

### 1. Introduction

With a simple admittance to banking administrations and accessibility of credit, they like to buy merchandise on credit. The purchase of durable goods on finance has increased to 55 percent. Individuals are updating their buys with the compensation of simple financing alternatives raising the customer bill value. General monetary incorporation has been a need on the approach plan of the administration according to the census 2011, only 59% of total households availed banking services, with 67.8% and 54.4% in urban and rural areas respectively. The financial stability report (FSR) of RBI, (2014) noted that NBFCs could play a major role in supporting the efforts towards financial

inclusion in India. They are, in effect, contributing immensely to financial inclusion by stretching out credit to the unbanked populace of the nation (Ray *et al.*, 2018).

#### 1.1. Consumer durable goods (CDGs)

While there is no universal definition of CDGs, hitherto it can be defined as goods that last for a longer time (durable goods, n.d.). They include consumer electronics or brown goods (such as television, laptops, digital cameras, electronic accessories, etc.) and consumer appliances or white goods (such as air conditioners, refrigerators, washing machines microwave oven, electric fans, etc. (IBEF, 2018).



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# An Investigative Analysis Of The Relationship Between An Effective Business Communication And Employee Performance

**Rajeev Sharma** Professor, Institute of Business & Management Mangalayatan University, Mathura - Aligarh Bypass Rd, Highway, Beswan, Uttar Pradesh.

**Md. Saifullah Khalid** Assistant Professor, Faculty of Business Management & Commerce Usha Martin University, Ranchi - Purulia Road, Highway, Angara, Jharkhand

**Dr. Nyarik Geyi** Asst.Professor. Department of Management. Himalayan University. Itanagar, A.P.

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## ABSTRACT

Organizations, according to Kotler, must consider both how we might get at our patrons as well as how our clients might approach us in order to be successful. Kotler (2009, p.564) describes the process as follows: This demonstrates the importance of communicative interactive marketing in the relationship between a firm and its customers. Today, according to Kotler, communication is an interactive interaction between a business and its customers 3 that occurs at all stages of the sales process, including before -sales, product-marketing and merchandise-consumption as well as after the customer has purchased the product. Additionally, Kotler asserts that mechanical advancements had a significant impact on communication methods.

**Keywords:-**marketing organization, communication and management.

## INTRODUCTION

Company communication is an essential part of any successful business partnership or a profitable venture. The company association's progress or development is its central objective here. The interaction between management and employees is critical. As a result of the requirement for trust and engagement amongst managerial staff, the results of tiered demonstrations will be affected. Bani Hashmi believes that interaction is a channel, a means to an end, or even the end in and of itself. Interaction or communication is a cycle in which information is handed down from one person to the next in order to assist the job of the authority. It is only when the chain of command between management and the specialist is solid that the business association will be able to run smoothly. Communications play an important role in motivating and

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## **An Analytical Study Of Corporate Social Responsibility (Csr) Practices For Manufacturing Companies Of Delhi**

**Dr. Rajeev Sharma** Associate Professor & HOD, Department of Management, Mangalayatan University, Aligarh, (Uttar Pradesh)

**Md. Saifullah Khalid** Assistant Professor Department of Management Usha Martin University, Angara (Jharkhand)

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### **Abstract**

CSR (Corporate Social Responsibility) is still a topic of debate and misunderstanding for many people. Corporate social responsibility (CSR) has become a major topic in business strategy and conversations. We've used questionnaires as part of my survey questionnaire. To be more specific, "questionnaire" encompasses any method of collecting data that asks participants for answers to pre-determined questions in a pre-defined sequence, such as surveys. Businesses and non-profit organizations in India support a variety of CSR initiatives, which are well-received and well-accepted in the country's CSR portfolio. Since the early 1990s, corporate motives have been questioned and scrutinized by activist organizations, critical journalists, and consumer groups. There are a lot of companies that are getting into the attention-getting game. There's no doubt that corporations will have a difficult time proving to their stakeholders and audiences that they are worth their salt.

**Keywords:** Corporate Social Responsibility (CSR), practice, manufacturing, Delhi, etc.

### **1. INTRODUCTION**

CSR (Corporate Social Responsibility) is still a topic of debate and misunderstanding for many people. Corporate social responsibility (CSR) has become a major topic in business strategy and conversations. Socially responsible business practises acknowledge the relationship between economic, environmental, and social repercussions of corporate actions, according to the widespread consensus. One of the most important concepts to arise from the moral responsibility debate and the role of corporations in society as a whole is the concept of corporate social responsibility. To some extent, it is related to business ethics, which can be defined as the study of business related activities, circumstances or decision making in which ethical questions are addressed (Dr. Swati Ashthana & Dr. Unnati Jadon, 2019). Business ethics offer the

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**3997 | Dr. Rajeev Sharma      An Analytical Study Of Corporate Social Responsibility (Csr) Practices For Manufacturing Companies Of Delhi**

Roshan Raj Prajapati, Dr. Manisha Pallavi Chauhan, Prof. S.S. Prasad

Turkish Online Journal of Qualitative Inquiry (TOJQI)  
Volume 12, Issue 7, July 2021: 6669- 6682

Research Article

## **Corporate Social Responsibility And Sustainability Practises In Indian Overview**

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Director, Teaching Learning Centre

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### **Abstract**

This paper gives us a contemporary look at that segment of corporations that de...  
the environment and the entire human race, known as Corporate Social Respc...  
concept of CSR is gaining prominence in the corporate world. CSR is a too...  
buying like hotcakes. The notion of CSR was already embedded in developed co...  
even the developing nations are embracing this idea. Almost every firm pres...

## Research Article

# FQ-MEC: Fuzzy-Based Q-Learning Approach for Mobility-Aware Energy-Efficient Clustering in MANET

Naghma Khatoon <sup>1</sup>, Prashant Pranav,<sup>1</sup> Sharmistha Roy,<sup>1</sup> and Amritanjali<sup>2</sup>

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Different schemes have been proposed for increasing network lifetime in mobile ad hoc networks (MANETs) where nodes move uncertainly in any direction. Mobility awareness and energy efficiency are two inescapable optimization problems in such networks. Clustering is an important technique to improve scalability and network lifetime, as it relies on grouping mobile nodes into logical subgroups, called clusters, to facilitate network management. One of the challenging issues in this domain is to design a real-time routing protocol that efficiently prolongs the network lifetime in MANET. In this paper, a novel fuzzy-based Q-learning approach for mobility-aware energy-efficient clustering (FQMEC) is proposed that relies on deciding the behavioral pattern of the nodes based on their stability and residual energy. Also, Chebyshev's inequality principle is applied to get node connectivity for load balancing by taking history from the monitoring phase to increase the learning accuracy. Extensive simulations are performed using the NS-2 network simulator, and the proposed scheme is compared with reinforcement learning (RL). The obtained results show the effectiveness of the proposed protocol regarding network lifetime, packet delivery ratio, average end-to-end delay, and energy consumption.

## 1. Introduction

Wireless communication plays a major role in the previous few years and has become one of the most focused areas of the communication research world. Such communication is useful in establishing a kind of network which is completely established on the fly. One of the challenging issues in multi-hop ad hoc wireless networks is developing such a routing protocol, which can efficiently handle the frequently changing topology. In MANET, clustering and routing are the major problems that are taken into consideration. An efficient clustering algorithm has been designed in this paper where node selection for different responsibilities has been done using a fuzzy-based Q-learning approach of reinforcement learning, and loads on cluster heads are balanced using Chebyshev's inequality principle.

MANET is a collection of mobile nodes which establish a network very spontaneously. They share the information; basically, they communicate with each other through a shared

wireless communication channel. Thus, MANET does not require any preexisting infrastructure. They are purely based on rapidly deployable infrastructure-less services which are self-controlled, and they do not require any preexisting centralized administrator and are configured with very few resources available.

Clustering is a significant methodology that takes care of numerous issues of MANET and gives network scalability and expands its lifetime. Here, nodes are divided into virtual groups called clusters. It makes hierarchical routing possible where paths are established between clusters. Each cluster has a cluster head (CH), which serves as a local coordinator for its cluster. CHs are prudently selected from the set of ordinary nodes, which can retain their role of coordination for a longer period compared with other nodes, i.e., CHs should be less mobile with high energy than the other cluster members (CMs). Communication from source to destination is done via CHs and gateway (G) nodes, which are within the transmission range of more than one CH (Figure 1).



# STUDY OF VARIOUS SOFTWARE DEVELOPMENT METHODOLOGIES

**Dr. Ritushree Narayan**

Assistant professor,  
 School of Computing & Information Technology,  
 Usha Martin University, Ranchi

## ABSTRACT

*This paper conducts an analysis of various software development methods. Presently we can see technology in our fingers. Technology is reached beyond our imagination. This paper explains different types of software development methods and their advantages and disadvantages. Today there are varieties of software projects available which require security. These types of projects are based on different types of software development methods. Choosing the best software development method for any project.*

**KEYWORDS:** *software development model, advantage, disadvantage, comparison.*

## INTRODUCTION

Presently computer becomes an essential part of our life. It is used in various fields of life like, agriculture, industry, health industry, education and business. Some people use computers for playing game. Computer is also called time saving device its do lots of work in minimum time. Computers also do work with more accuracy. all these events required software. lots of software development methods are available to develop software projects. It's very difficult to identify which software development method is suitable for a

3. Helps in saving time
4. It helps in effortless

## Disadvantages

1. It depends on precise
2. It does not help in
3. There is no any project outcome.
4. It's not good for software projects.

## Prototype Method



# A COMPARATIVE STUDY: RENEWABLE VERSUS NUCLEAR ENERGY

**Dr. Ritushree Narayan**

School of Computing and Information Technology  
 Usha martin University,  
 Ranchi, India

## ABSTRACT

*Capability to do work is depends upon the energy. energy conservation is different from the energy means we have to increase our energy efficiency by using less amount of energy resources . To conserve energy we have to control the carbon emission at least cost and least time. Energy has many forms like solar, chemical, thermal or nuclear and can be altered from one form to other form.*

**KEYWORDS:** *Renewable energy, Nuclear power, Energy.*

## 1. INTRODUCTION



Energy resources are generating heat or electricity. In today's culture humans consumes extra energy than ancient human beings. Appenzeller(2004). Energy resources are divided into three categories: renewable, fossils and nuclear. Appenzeller(2004) and Cohen(1983) Fossils fuels consume energy from sun but fossils' fuels are non-renewable energy. . Karnousko(2007) Solar energy is unlimited source and it is renewable and non polluting source of energy. Wind is also unlimited source of energy. It can be converted in to energy by

2. Continuous energy solar energy which is strong wind and constant energy. Pais
3. Reliability: sun and present so, reliability high.
4. Save natural resour resources are not using our natural resources Tsoutsos(2005)
5. Less operation cost:





# Experimental investigations on active solar dryers integrated with thermal storage for drying of black pepper

D.V.N. Lakshmi <sup>a</sup>, P. Muthukumar <sup>b</sup>  , Prakash Kumar Nayak <sup>c</sup>

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## Highlights

- Studied the drying characteristics of black pepper in active mode solar dryer
- Drying efficiency and specific energy consumption of solar dryers are evaluated
- Black pepper took 14h and 53h for drying in solar dryer and open sun drying
- Antioxidant value of black pepper dried in case-I is higher than other cases
- Mixed mode dryer with thermal storage is more suitable for black pepper drying.

## Abstract

This study focusses on the experimental analyses of two active horizontal solar indirect solar dryer (Case-II) integrated with latent heat storage system designed for drying of black pepper. The drying time required to reach the desired moisture content of 0.14 was 14h and 23h, respectively. While, it took 59h in open sun drying (case-III). The case-II saved 76% and 60% of drying time respectively compared to case-III. For the developed solar dryers are more beneficial. It is seen that the overall dryer efficiency is higher in case-II. Quality analyses in terms of proximate analysis and anti-oxidants of the samples were carried out. The carbohydrates and protein values were rich in case-II. The antioxidant contents of samples dried in case-I and case-III were 45.69  $\mu$  mol TE/g and 32.12  $\mu$  mol TE/g, respectively. The ash substance of the samples dried under case-III was high compared to case-II.

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Environmental Science and Pollution Research, Volume 29, Issue 1, 2022  
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Saikia, D., ..., Lakshmi, D.V.N.

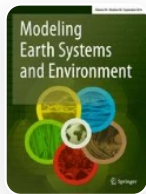
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Journal of Stored Products Research, Volume 57, Issue 1, 2021  
Muthukumar, P., ..., Srinivasan, G.

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# Forestry biomass and its role in controlling bronchitis in urban areas: a nonlinear modelling study

Original Article Published: 11 January 2021

Volume 8, pages 69–80, (2022) [Cite this article](#)[Modeling Earth Systems and Environment](#)[Aims and scope](#)[Submit manuscript](#)[Abhinav Tandon](#) , [Sankha Banerjee](#) & [Kumari Jyotsna](#) 197 Accesses [Explore all metrics](#) →

## Abstract

The present study explores the role of forestry biomass in controlling the disease of bronchitis in human population, which is being caused through air pollutants, induced by urbanization. For this purpose, a nonlinear mathematical model is formulated by taking into consideration the interactive dynamics among forestry biomass, human population and pollution. To get insight into disease dynamics of bronchitis, the human population is supposed to be divided into two classes—susceptible and infected, where susceptible

# TECHNOLOGY 4.0 FOR EDUCATION 4.0: INNOVATIONS, CHALLENGES & OPPORTUNITIES IN INDIA

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*(Usha Martin University)*

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## ABSTRACT

There is no denying the fact that education is the greatest tool to solve our problems. Education has been transformed from centuries in its form, levels, and format. Depending upon our needs and times, be it peace or exigencies (natural or human induced), educational pedagogies, assessment strategies, infrastructural provisions, student enrolment, faculty recruitment, finances, knowledge management and technology adoption, all have changed over a period of time. Such change in teaching and learning practices is constant. Flexibility of operations, rapidity of knowledge generation and transfer, creative practices and spatial arrangements have given rise to innovations in education. New pedagogies and technologies have opened up new possibilities. Students are offered new learning paths. This article discusses the innovations, challenges and opportunities as presented to us by the technology 4.0 for education 4.0.

**Keywords:** 4<sup>th</sup> Industrial Revolution, Educational Innovations, Internet of Things, Artificial Intelligence, Open and Distance Learning.

## RESUMEN

### TECNOLOGÍA 4.0 PARA LA EDUCACIÓN 4.0: INNOVACIONES, DESAFÍOS Y OPORTUNIDADES EN INDIA

No se puede negar el hecho de que la educación es la mejor herramienta para resolver nuestros problemas. La educación se ha transformado a lo largo de los siglos en su forma, niveles y formato. Dependiendo de nuestras necesidades y tiempos, ya sea paz o exigencias (naturales o inducidas por el hombre), pedagogías educativas, estrategias de evaluación, disposiciones de infraestructura, inscripción de estudiantes, reclutamiento de profesores, finanzas, gestión del conocimiento y adopción de tecnología, todo ha cambiado

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\*\* PhD in Physics from Delhi University, India. Pro Chancellor and Professor of Usha Martin University, Ranchi, India. E-mail: [prof1951@gmail.com](mailto:prof1951@gmail.com)

## General Article

# Covid-19 and Higher Education Learning Ecosystem: Challenges and Way Forward

Suresh Chand Garg\* and Ramesh Chander Sharma\*\*

\*Usha Martin University, Ranchi, Jharkhand, India

\*\*Ambedkar University Delhi, Karampura Campus, New Delhi, Email: rc\_sharma@yahoo.com

## Abstract

*In the history of humankind, interruption to education has been noticed earlier, however, the disruptions caused by COVID-19 pandemic are unprecedented. Affecting the whole world, it has halted our movement, which has been necessary to put a tab on the spread of virus. This also affected parents, teachers and students. World student and teacher population is facing challenging times in keeping pace with these happenings with the purpose of continuation of teaching learning during pandemic times. This paper discusses such challenges arising out of COVID-19 pandemic and proposes some way forward in dealing with this crisis.*

**Keywords:** COVID-19, Higher Education, Pedagogy, Online Teaching, Web Conferencing, Access, Social Distancing, Emotional Tenor

## Introduction

We are living in terrible times dominated by COVID-19 virus, which has locked down all economic activity in the world and forced people to live inside their homes. In fact, most National Governments are advising, and some are forcing, their people to stay at home to be safe. Though the fight is between unequal-the mightiest of all natural creations (humans) and the non-living microscopic entity (virus), no country on this planet has remained untouched by the devastating impact of the pandemic. Even those nations which have constructed missiles and nuclear devices that can destroy our planet in a matter of minutes and changed world order to satisfy their prejudices, dominated space and

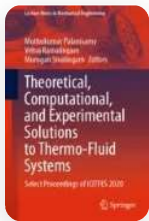
boast of conquering the cosmos, built airplanes that can travel at supersonic speeds and transport hundreds of people several thousand kilometers, are failing to win the battle against the enemy which is so tiny that we need the most powerful microscopes to view their structures or cannot travel more than a few feet at a time by itself. (It is another matter that we have aided to make its presence universally.) Globally, as of 26 November 2020, there have been 60,074,174 confirmed cases of COVID-19, including 1,416,292 deaths, reported to WHO (2020). In case of India, as of 27 November 2020, there have been 93,09,787 infected cases out of which 4,55,555 are active cases and 87,18,517 are discharged (mygov. in data dashboard). Number of deaths

Home > [Theoretical, Computational, and Experimental Solutions to Thermo-Fluid Systems](#) > Conference paper

# Energy and Environmental Analyses of Active Solar Dryer for Medicinal Herbs Drying

| Conference paper | First Online: 10 March 2021

| pp 297–307 | [Cite this conference paper](#)



## Theoretical, Computational, and

## Experimental Solutions to

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D. V. N. Laksh

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513 Accesses | 1 Citations

## Abstract

This work presents the dehydration behaviour of the stevia leaves dried in an indirect active solar dryer (IASD). The newly developed IASD comprises of a solar air heater (double pass), a parallel flow cabinet with six trays and a blower. The dryer was designed with a loading

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# An Approach Of Crystal Engineering For Solubility Enhancement Of Poorly Water-Soluble Drugs

Mr. Devendra Singh, Ms. Rojalini Samanta

## Abstract

*As a result of intermolecular interactions, crystal engineering involves the synthesis of novel structures and properties in medicinal molecules. For more than 40 percent of newly designed medicines, low solubility and low bioavailability have hampered their clinical implementation. Cocrystallization is a bicomponent system in which bonds are formed between drug and coformer, improving the solubility and flow properties of weakly water-soluble pharmaceuticals. It is important to note that cocrystallization has no effect on the drug's chemical properties or biological efficacy. Implementing cocrystallization for solubility improvement has the added benefit of improving flow and compressibility.*

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Mr. Devendra Singh, Ms. Rojalini Samanta. (2021). An Approach Of Crystal Engineering For Solubility Enhancement Of Poorly Water-Soluble Drugs. *Drugs and Cell Therapies in Hematology*, 10(3), 190–193. Retrieved from <http://www.dcth.org/index.php/journal/article/view/490>

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# Exploring Different Types And Clinical Perspective Of Postconditioning

Mr. Umang Varshney, Ms. Anjana Sinha

## Abstract

*Because it is feasible, effective and safe in clinical settings, and involves the administration of bioactive pharmacological agents during or before reperfusion Pharmacological postconditioning (pPoCo), it appears to be a more pragmatic and promising alternative to postconditioning. There are several ways to protect your brain after an ischemic insult. One of them is called pPoCo. Pharmacological postconditioning mechanisms were investigated in order to identify the pharmacological targets involved in neuroprotection in the current investigation.*

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Mr. Umang Varshney, Ms. Anjana Sinha. (2021). Exploring Different Types And Clinical Perspective Of Postconditioning. *Drugs and Cell Therapies in Hematology*, 10(3), 204–209. Retrieved from <http://www.dcth.org/index.php/journal/article/view/493>

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# Assessing The Types And Applications Of High-Performance Thin Layer Chromatography (Hpltc) Technique

Mrs. Sapna Sharma, Ms. Shivangi

## Abstract

*In all stages of the drug discovery and development process, analysis of pharmaceutical and natural compounds, as well as newer pharmaceuticals, is routinely used. High-performance thin layer chromatography is a sophisticated instrumental technique that takes advantage of thin layer chromatography's full potential. HPLC (high-performance liquid chromatography) has been widely used as an analytical method for many years and is an important instrument for the separation and analysis of pharmaceutical medications, drug monitoring, quality assurance, and life science research. Non-volatile compounds are often separated and analysed using HPLC. Numerous applications have been accepted for everyday use in the pharmaceutical industry, research laboratories, analytical laboratories, clinical laboratories, and colleges due to the flexibility of this technique.*

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# Demonstrating Mechanisms Of Ischemic Postconditioning

Mr. Anuj Saraswat, Ms. Puja Lal

## Abstract

*The potential mechanisms of ischemia postconditioning, the presence of comorbidities, and the prospective extrapolation to the clinical situation are reviewed. In the near future, large, multicentered, randomized, placebo-controlled, clinical trials will be necessary to evaluate if pharmacological and/or ischemic postconditioning can enhance the clinical outcomes of patients with IHD. This study reviews publications on the subject of ischemia postconditioning of the heart. The study demonstrates that postconditioning clinical trials using this approach in the context of predicted ischemia-reperfusion have achieved encouraging results, and other investigations to characterize the potential clinical utility of these tactics are ongoing.*

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# Discussing Current Knowledge On Saponins: Structure, Sources And Cytotoxicity

**Mr. Ramgopal Singh, Ms. Rupsa Seth**

## Abstract

*Various saponins, their anticancer efficacy and methods of action, as well as promising research in the previous two decades, are discussed in this review, along with future study recommendations and future research directions. The saponins extracted from diverse plants have a cytotoxic effect on cancer cells and induce apoptosis and autophagy, according to a number of researches on the subject. A number of useful qualities are found in saponins as well, such as antioxidant capabilities. On the basis of their therapeutic and preventive actions, saponins can be considered during anticancer treatment. This review summarises the present state of knowledge on different saponins, their anticancer potential, and future research recommendations.*

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Mr. Ramgopal Singh, Ms. Rupsa Seth. (2021). Discussing Current Knowledge On Saponins: Structure, Sources And Cytotoxicity. *Drugs and Cell Therapies in Hematology*, 10(3), 229–233. Retrieved from <http://www.dcth.org/index.php/journal/article/view/497>

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# An Overview Of Models And Current Challenges Of Molecular Docking

Mr. Yogesh Kumar, Mr. Adib Alam

## Abstract

*When it comes to drug design and analysis, molecular docking offers a variety of useful methods. On the desktop of a medicinal chemist, simple visualisation of molecules and fast access to structural databases have become vital tools. Virtual screening is the most important use of molecular docking. As a result of drug discovery paradigm shifts, some molecular docking characteristics must be revised. Molecular docking models, uses, and contemporary issues are discussed in this article. We also talk about some of the existing docking problems.*

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Mr. Yogesh Kumar, Mr. Adib Alam. (2021). An Overview Of Models And Current Challenges Of Molecular Docking. *Drugs and Cell Therapies in Hematology*, 10(3), 252–256. Retrieved from <http://www.dcth.org/index.php/journal/article/view/499>

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# Discussion Of Advanced Granulation Trechniques

**Dr. MD Nematullah, Ms. Richa**

## Abstract

*An important unit technique in manufacturing pharmaceutical dosage forms is granulation, which involves increasing particle size via agglomeration techniques. The granulation process turns fine powders into free-flowing, dust-free granules that are easy to compact. There is a new technique called theroplastic granulation, which incorporates both dry and wet granulation benefits. To achieve this, it has been devised a unique granulation technique that mixes and agglomerates pharmaceutical powders to produce homogenous granules suited for the manufacture of attractive solid dosage forms. We'll be focusing on numerous types of granulation techniques in this technique.*

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Dr. MD Nematullah, Ms. Richa. (2021). Discussion Of Advanced Granulation Trechniques. *Drugs and Cell Therapies in Hematology*, 10(3), 257-262. Retrieved from <http://www.dcth.org/index.php/journal/article/view/501>

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# Significance Of Secondary Prevention Of Cardiovascular Diseases And Related Lifestyle Intervention

**Mr. Akash Upadhyay, Ms. Suchita Shalini**

## Abstract

*Human health and well-being are one of the most important and pressing topics. The World Health Organization's aim of a 25% reduction in premature mortality from noncommunicable diseases by 2025 will be met only if secondary prevention of CVD is implemented successfully. Addressing secondary CVD prevention effectively will have a significant impact on health outcomes as well as the accompanying economic burden. Finally, this article discusses the relevance of secondary cardiovascular disease prevention and widely given therapies for high-risk patients.*

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Mr. Akash Upadhyay, Ms. Suchita Shalini. (2021). Significance Of Secondary Prevention Of Cardiovascular Diseases And Related Lifestyle Intervention. *Drugs and Cell Therapies in Hematology*, 10(3), 263–267. Retrieved from <http://www.dcth.org/index.php/journal/article/view/503>

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# Discussing Concept Of High-Performance Liquid Chromatography: Automation And Advantages

Mr. Gyaneshwar Singh, Ms. Komal Kriti

## Abstract

*In all stages of the drug discovery and development process, analysis of pharmaceutical compounds and newer pharmaceuticals is routinely used. In most pharmacopoeial monographs, thin layer chromatography investigations are one of the most important identity tests. HPLC (high-performance liquid chromatography) is a vital qualitative and quantitative technique for determining the concentration of pharmaceutical and biological materials. It is the most versatile, safest, most reliable, and fastest chromatographic approach for drug component quality control. The purpose of this article is to discuss several aspects of HPLC, including as the principle, kinds, apparatus, and application.*

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## A Theoretical Study on Introduction to Ferrocement Hollow Slabs and its Kinds

Dr. Harit Priyadarshi, Mr. Nanda Shakti

Keywords: **Ferrocement, Hollow, Slabs, Fiber, Force, Inertia**

### ABSTRACT

A brief introduction to the performance of ferrocement hollow slabs as a roofing and flooring unit is provided in this article. It is also argued whether or not hybrid ferrocement is required to increase the strength and durability of roof slabs. An explanation is provided for the function of fibers. When it comes to building roof slabs, ferrocement has gained widespread acceptance. The behavior of ferrocement roof slabs has been the subject of a number of studies. There has been just a little amount of research into the elastic stiffness of ferrocement hollow slabs. When contrast to reinforced cement concrete slabs, ferrocement hollow slabs have a lower self-weight and, as a result, draw a lower inertia force during an earthquake.

 PDF

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Mr. Nanda Shakti, D. H. P. (2021). A Theoretical Study on Introduction to Ferrocement Hollow Slabs and its Kinds. *Design Engineering*, 7268-7273. Retrieved from <http://www.thedesignengineering.com/index.php/DE/article/view/7806>

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## Framework of the Electoral System on the Election Commission and Practices in India

Dr. Pankaj Choudhury, Mr. Animesh Rishi

Keywords: **electoral, system, election, commission, practice, India, etc.**

### ABSTRACT

Democracy is recognized as the best form of government in the world today since practically everyone believes in democracy and the electoral process. Despite the few instances of democracies turning into authoritarianism, democracy has shown to be the most durable type of government. A democratic election is required to determine the will of the people. Therefore, elections are unavoidable events in a democratic system of government. The elections are the means by which the people choose their representatives to serve in the electoral offices, chosen from among them. Persons found guilty of corrupt acts were disqualified from running for office under the Indian Election Offences and Inquiries Act, 1920, which also made several revisions to the Indian Penal Code. Elections to the legislature held over the previous 46 years or so have, with the exception of a few minor anomalies, been overwhelmingly successful and largely applauded both inside the country and internationally. There are certain fundamental principles of election that must be adhered to in order for the system of representative democracy and the electoral process to function successfully. Without these principles, the system of representative democracy and the electoral process becomes delicate and fragile, much like glass and crockery. As a result, in order for the system to be successful, it must adhere to the fundamental rules of election. The electoral roll serves as the foundation for free and fair elections to take place.



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## Impact of Sellers' in Buyers-Sellers Relationship (BSR): Reference to Process Industry

Dr. Surendra Kumar, Ashutosh Kumar

### ABSTRACT

All process industries today assume augmented significance towards improvement in their relational effectiveness, and because of this, externalization of business processes by Organizations has been heading. With the increase in dependency, the relationship among Organizations within the supply chain and not just at the superficial level has hence assumed crucial importance. The paper attempts to identify the various antecedents of a seller that lead to the development of an Industrial Buyer Seller Relationships.

Earlier purchasing strategies were cost focused. But current scenario if a buyer-seller business bonding relationship becoming back bone of long term business as well as mutual benefits. In current scenario buying process has become supplier relationship process. The researchers discover that the different stages of the buyer-seller relationships evolve, buyer understanding towards supplier as a customer. Buyer-seller relationship develops mutual trust from personalized trust sources. Trust creates always procurement flexibility to get competitive advantage too. BSR helping in adopting cross cultural values, cross national rules and regulations as well as service procurement.

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## An Extensive Review on Task Scheduling in Grid Computing

Dr.Javed Wasim, Dr.Ritushree Narayan

Keywords: **Task, Scheduling, Grid, Parallel, Computing.**

### ABSTRACT

To address big calculation problems, a grid computing environment is a parallel and distributed platform that pools the resources of several computers to work together in parallel. Task scheduling is a crucial problem in grid computing, which maps jobs onto a parallel and distributed system in order to achieve excellent performance while reducing the total execution time. Grid computing is a type of computing that maps tasks onto a parallel and distributed system. Scheduling in Grid computing has been a thriving field of research from the introduction of the technology. However, because of the steep learning curve associated with Grid computing, it is extremely difficult for beginners to grasp the ideas involved. There is hence a requirement for an in-depth grasp of scheduling in the Grid computing field. The purpose of this work is to offer a succinct knowledge of scheduling, as well as a related understanding of the Grid computing architecture. Throughout the article, the general picture of Grid computing is presented, as well as essential subsystems that make Grid computing feasible.

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## Modeling of Environment and System Testing of Real-Time Embedded System

Dr. Md Oqail Ahmad, Mr. Prasant Pranav

Keywords: **Embedded, Testing, Real, Feasible, Simulation**

### ABSTRACT

Real-time embedded systems (RTES) are generally utilized as a part of a wide range of spaces, from integrated control systems to consumer electronics. RTES system testing necessitates contact with the real-world environment or, where necessary and feasible, with a simulation environment. Our essential objective RTES in this proposition are fragile real time systems with time cutoff times in the solicitation of numerous milliseconds, with a good jitter a few milliseconds as needs be time. The principle motivation behind the theory is to give a reasonable way to deal with automated discovery system testing of RTES in light of their surroundings. It demonstrates an abnormal state perspective of the structure for RTES system testing.

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#### HOW TO CITE

Mr. Prasant Pranav, D. M. O. A. (2021). Modeling of Environment and System Testing of Real-Time Embedded System. *Design Engineering*, 7293-7303. Retrieved from <http://www.thedesignengineering.com/index.php/DE/article/view/7809>

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## Impact of Green Recycled Aggregate Concrete on Civil Construction in India: A Study

Dr. Mahesh Kumar, Mr. Manish Kumar

### ABSTRACT

In this paper we explored the impact of green recycled aggregate concrete on civil construction in India. Waste materials have a lot of promise for making Green Concrete. "The use of waste materials and byproducts in lieu of conventional concrete components allows for the production of cost-effective and environmentally friendly concrete. The use of waste materials and admixtures to partially replace components results in enhanced compressive and tensile strength, sulphate resistance, reduced permeability, and improved workability. Concrete mixes including waste elements such as quarry dust have a lower cost per unit volume than control concrete mixes. To understand the resulting concrete characteristics, a thorough life cycle study of Green Concrete using different criteria is required. To prevent mixing and overflowing into adjacent regions, the Construction and Demolition waste produced at the site must be removed at the necessary frequency." It is necessary to guarantee the safety of both equipment and personnel. Switching entirely to Green Concrete for building is the greatest method to decrease CO<sub>2</sub> emissions as part of a worldwide effort to reduce CO<sub>2</sub> emissions. More research is aviated in this field.

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## Cyber Laws Relating to Social Networking for Legal Solution and Constitutional Protection in India

Dr. Pankaj Choudhury, Ms. Nimisha Sinha

Keywords: **cyber law, social networking, legal, constitutional, protection, etc.**

### ABSTRACT

The increasing global demand for social networking websites has pushed to the forefront the urgent necessity for a single piece of law to enforce and regulate the practise around the world. With each passing minute, it becomes more difficult to protect the internet and the interests of the general public. Due to the adoption of the UNCITRAL model law, each country has enacted some form of cyber regulation, despite the fact that the laws already in force in these countries have included provisions that deal with limited jurisdiction, while interpreting the law based on the swim lanes of their jurisdiction on numerous occasions involving international conflicts. Understanding the legal obligations of users as well as networking sites towards this online networking has become necessary in recent years. Even though the legal system and rules in any country, including India, are still in the process of being established and evolving, there have been some fascinating changes enacted by some states that have set a precedent that is worth considering. The widespread and unhindered dissemination of information across numerous groups is made possible by the easy and speedy dissemination of information across various groups. This type of misinformation may not only fool the users, but it may also cause unrest and violence, which may result in criminal activity and homicide in the public domain. It is the purpose of this study to identify various legal challenges and regulations on cyber law, specifically within the scope of social networking sites, in order to relate

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## Analytical Study Simulation Model of Site Specific Live Load

Mr. Sheezu Azmat, Mr. Arjun Kumar

Keywords: **Vehicle, Truck, Traffic, Movement, Weigh, Distribution.**

### ABSTRACT

The required information data is the percentile of every vehicle class which adds to nearby truck traffic and the quantity of vehicles which should be created. Moment proportions will be haphazardly created for each set utilizing ordinary distributions and parameters. Next they will create esteems which will separate to fulfill the limit states of each set. Each class comprises of created esteems from various sets. The quantity of qualities taken from each set will be figured based on set percentile. The Weigh-in-movement (WIM) information will be assembled from all sources and handled into a uniform configuration. Unpleasant information will be sifted by concurred conditions to evacuate traveler vehicles and wrong readings. Entire information was partitioned into normal truck traffic and allows vehicles.

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#### HOW TO CITE

Mr. Arjun Kumar, M. S. A. (2021). Analytical Study Simulation Model of Site Specific Live Load. *Design Engineering*, 7325-7336. Retrieved from <http://thedesigengineering.com/index.php/DE/article/view/7812>

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## Incorporation of Wim for Load Spectra for Service Limit States of Rcc Bridges: A Theoretical Approach

Mr. Ashish Jain, Mr. B. N. Dubey

Keywords: **Bridge, Structural, Health, Vehicle, Building.**

### ABSTRACT

The condition monitoring of the bridges against aging effect in the transportation infrastructure have drawn great attention, which leads to the maintenance and inspection of highway bridges. The concept of bridge weigh-in-motion (BWIM) is one of the structural health monitoring systems to acquire the moving vehicle's information such as its weight, speed, axle spacing and frequency of vehicles over the bridge. As the bridges are long, a large number of sensors data have to be record with respect to time, while the vehicle crosses over the bridge. The recorded data is enough to exploit the dynamic information of the moving vehicle at a proposed nominal speed of high way on the building these days.

 PDF

#### HOW TO CITE

Mr. B. N. Dubey, M. A. J. (2021). Incorporation of Wim for Load Spectra for Service Limit States of Rcc Bridges: A Theoretical Approach. *Design Engineering*, 7337-7346. Retrieved from <http://thedesigengineering.com/index.php/DE/article/view/7813>

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## Studying Index Architecture for Querying Resource Description Framework Emerging from the Web

Dr. Mahesh Kumar, Mr. Dilip Kumar Ranjan

Keywords: **Uniform, Resource, Data, Storage, Semantic, Web.**

### ABSTRACT

RDF is basically a network of entities, where enterprises and connecting connections are specified by Uniform Resource Identifiers (URIs). The entities and related connections can be looked for by dereferencing the URIs. RDF is one of the primary components of Linked Data. Linked Open Data cloud is used for defining RDF datasets connected to each other using RDF connections. RDF data management has got a lot of interest in the past decade due to the broad expansion of Semantic Web and Linked Open Data efforts. RDF data is given in the form of triples (as Subject - Predicate - Object), with SPARQL used for querying it. Many innovative database systems such as RDF-3X, TripleBit, etc. — store RDF in its native form or within standard relational storage – have shown their capacity to scale to huge amounts of RDF material.

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#### HOW TO CITE

Mr. Dilip Kumar Ranjan, D. M. K. (2021). Studying Index Architecture for Querying Resource Description Framework Emerging from the Web. *Design Engineering*, 7357-7368. Retrieved from



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## Converting Weakness into Strength by Utilizing New Defense against Adversarial Images

Dr. Md Oqail Ahmad, Mr. Rahul Kumar Gupta

### ABSTRACT

Experts have long recognized that deep neural networks (DNNs) are sensitive to adversarial perturbations, which poses a significant danger to DNN-based decision systems. A distinctive aspect of our method is that, in addition to offering robustness versus assaults, it also improves picture quality while maintaining model performance on clean images, which is a unique combination. Furthermore, the suggested technique does not require any modifications to the classifier and does not necessitate the use of a separate system to detect adversarial pictures. Extensive tests have proved the efficiency of the strategy, which has proven to be a robust defense in gray-box situations when tested. There are several advantages to the suggested method, including the fact that it requires no model training or parameter optimization, that it complements other extant defense mechanisms that it is agnostic to the attacked model and attack type, that it provides superior performance across all famous attack algorithms, and that it is simple to implement.

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## A Study on Geopolymer: Its Necessities, Constituents and Curing

Dr. Javed Wasim, Dr. Venkata Naga Lakshmi Durga

### ABSTRACT

For the beam-column connection of a reinforced concrete structure, Geopolymer Concrete should be exploited to its full potential. Geopolymer concrete will also be utilized in the construction of the infrastructure. Aside from that, the Fly ash will be efficiently utilized, resulting in the elimination of the need for fly ash disposal in landfills. In the medium term, geopolymer concrete applications for bridges, such as precast structural components and decks, as well as structural retrofits utilizing geopolymer-fiber composites, have a lot of promise, particularly for precast structural elements and decks. Due to the relative simplicity with which delicate components (e.g., high-alkali activating solutions) may be handled and the requirement for a regulated high-temperature curing environment required by many contemporary geopolymers, precast applications are where geopolymer technology is at its most advanced.

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#### HOW TO CITE

Dr. Javed Wasim, Dr. Venkata Naga Lakshmi Durga. (2021). A Study on Geopolymer: Its Necessities, Constituents and Curing. *Design Engineering*, 7600 - 7606. Retrieved from

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## Image Classification and Annotation Using K-Nn and Concept Ontology

Dr. Md Oqail Ahmad, Dr. Asim Ahmad

### ABSTRACT

This step creates a feature extraction from training and test pictures, which is then used in the feature recognition phase. It is not possible to obtain exact pictures using image retrieval based on characteristics alone. The semantic gap between the picture searched for and the image returned appears to exist when simply image content is taken into account. A K-NN classifier was used to further classify the characteristics in order to solve this issue. This chapter describes the categorization and annotation phases, as well as the approach used to create a concept ontology, in further detail. Further investigation into other areas of radiology such as CT, PET and X-ray may be necessary to complete the intended job successfully. It is possible to add more extensive annotation in the ontology generated since it is easily updatable.

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#### HOW TO CITE

Dr. Md Oqail Ahmad, Dr. Asim Ahmad. (2021). Image Classification and Annotation Using K-Nn and Concept Ontology. *Design Engineering*, 7607 - 7614. Retrieved from <http://thedesigengineering.com/index.php/DE/article/view/7849>

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## Planning the Architecture of Intelligent Agent based System in Enhancing Cloud Resource Management (Crm) Policies

Dr. Harit Priyadarshi, Ms. Karuna Kumari\*\*

### ABSTRACT

The cloud offers clear advantages for calculations just as for capacity for different application regions. Security concerns are by a wide margin the best hindrances to the more extensive take-up of cloud registering, especially for protection delicate applications. The point of this article is to propose a methodology for building up trust among clients and suppliers of cloud infrastructures (IaaS model) in light of guaranteed confided in agents. Such methodology would eliminate hindrances that forestall security delicate applications being moved to the cloud. The center innovation incorporates a protected agent stage for giving the execution climate to agents and the safe authenticated software base which guarantees the respectability of the host stage.

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#### HOW TO CITE

Dr. Harit Priyadarshi, Ms. Karuna Kumari\*\*. (2021). Planning the Architecture of Intelligent Agent based System in Enhancing Cloud Resource Management (Crm) Policies. *Design Engineering*, 7615 - 7621. Retrieved from <http://thedesigengineering.com/index.php/DE/article/view/7850>

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## A Survey based Study to Determine the People Perception towards Electric Vehicle for Indian Roads

Mr. Sheezu Azmat, Mr. Arjun Kumar

Keywords: **Electric vehicles, people perception, Use of electric vehicles, Environmental concern.**

### ABSTRACT

All EVs (electric vehicles) which are commonly called battery electric vehicles are using a rechargeable battery so as to retain the electrical energy used to control the motor. The vehicle electric battery is charged by hooking it into an electric power source. Despite the fact that power generation contributes to air pollution, all-electric vehicles are classified as zero-emission vehicles by the Environmental Protection Agencies because they emit no direct exhaust or tailpipe emissions. The module evaluates the result of authorized ciphers which perform the functions indicated below. EVs not only lessen fossil fuel reliance, but they also eliminate ozone harmful materials and facilitate renewable energy deployment on a massive scale. Electric vehicle production and networking devices keep evolving and be restricted, despite substantial study on the characteristics and specifications of electric vehicles, and also the nature of its charging structure. This research aims to determine the perception on common people towards electric vehicles and the factors associated with buying of electric vehicles for Indian Roads. The survey method is to be adopted for this purpose

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## Impact of Automated Teller Machine (Atm) on Growth and Development of Banking Sector in India

Dr. Swati Ashthana, Dr. Dinesh Kumar Pandey

Keywords: **Automated Teller Machine (ATM), growth, development, banking, India, etc.**

### ABSTRACT

The rise of the Indian banking industry has been more qualitative than quantitative, and it is projected to continue in this manner in the coming years. The use of technology in the delivery of financial services is becoming increasingly common, as it is being used to cut costs and eliminate uncertainties in the banking industry. Customers benefit from greater convenience and multiple options while banks benefit from tremendous cost savings. Customers are also growing more sophisticated as a result of having access to the most up-to-date sorts of delivery channel technology. As a result, many financial institutions must concentrate their efforts on enhancing client satisfaction and customer retention by improving the overall quality of their services. Despite the fact that technology advancements such as mobile banking and internet banking have contributed to the entire transformation of the banking sector, ATMs continue to be a significant influence in the business. The Indian financial system is the fastest-growing industry in the country, with a compound annual growth rate of more than 20%. In technology diffusion, the transmission of technical information and know-how is combined with the eventual acceptance of new technologies and procedures by users to create a cascade of effects. The findings of this study contribute to the rise of high technology in the Indian banking industry. It also investigates the impact of globalization on

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## Comparative Analysis of MATLAB and Lab View Software for Purpose of Virtual Laboratories in the Field of Instrumentation

Dr. Yatendra Pal Singh, Dr. Abhishek Pandey

### ABSTRACT

National Instruments as well as Mathworks, primarily American software businesses, produced LabVIEW and MATLAB, that are 2 main programming languages and frameworks. These platforms are used by a range of engineers and scientists to help with all stages of the development process of product, including design to simulations and then to test prototype. The teaching of automation techniques in the academic sector, notably in instrumentation engineering, necessitates laboratory equipment (control and automation plants), which due to their high cost, causes problems with availability when executing practises. As a result, plant virtualization is being recognised as a realistic and cost-effective option for the advancement of laboratory techniques. This paper attempts to provide a comparative analysis of the two software and its applications in the virtual laboratories. Commonly used areas and purposes of each of these have also been discussed.

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## DESCRIPTION OF CHILDOOD AND ASLO FEMALE IN CONTEMPORARY CINEMA OF INDIA

Dr. Poonam Rani\*, Ms. Shahnaaz Zabi\*\*

\*Assistant Professor-2 & HOD, \*\*Assistant Professor

Department of Visual & performing Arts\*, Department of Journalism and Mass  
Communication\*\*

\*Mangalayatan University, Aligarh, (Uttar Pradesh)

\*\*Usha Martin University, Angara (Jharkhand)

### ABSTRACT

*Having established itself as the prime locus of popular culture, Indian cinema as an academic discipline has grown in tandem, especially through the last two decades. The preliminary motive of this dissertation emerged with the recognition that little has been said and written about a particular segment of Indian cinema—children’s cinema in India. In order to comprehend a vast subject such as children and films within the Indian context, this thesis looked at the various perspectives that a subject like this brings to the mind. Perspectives such as that of definition, genre, audience, content and themes. Through an extensive survey of literature on the definitional aspects of a category such as children’s cinema one finds how it includes films that are exclusively aimed at child audiences while it also includes films that deal with aspects about children and childhood that bring the adult and the child together in a more intimate way. In other words, children’s cinema is a much-debated subject, a fluid concept with changing meaning based on the context, content, and audience.*

**KEYWORDS:** culture, Audience, Theme, Cinema, Film.

### I. INTRODUCTION

A plethora of scholarship on Indian cinema has been published in both academic journals and popular media, and it has covered a wide range of topics related to this segment of Indian culture. There are a variety of topics covered in these Indian film studies, including socio-historical transformation, fan culture and fame, industry dynamics, Bollywood, and a variety of other topics. However, in this vast field of research, there has been relatively little spoken or published about the subject of children's films and about childhood in India, despite the importance of these topics. The creation of childhood in modern Indian film is the subject of this research dissertation. There is a strong emphasis on the role of children in films, as well as the numerous issues that they symbolize within the cinematic imagination of modern Indian cinema. Nonetheless, when it comes to a wide subject such as children and cinema, there are several viewpoints and elements that must be considered and explained before one can begin to specialize in a specific field of study within the subject area in question. Approaching this subject from the perspective of various commentators writing about children's cinema is a good way to start the conversation. When one begins to investigate the history of the link between children and cinema, one learns that this relationship dates back to the very beginning of the invention of film itself. One is transported back to the 1890s, to the pioneering work of the Lumière Brothers, when the first pictures of a



# RECEPTION , DISTRIBUTION , FANS AND STAR CREATION OF THE MOVING IMAGE

## Mr

Debasis Chakraborty, Dr. Rashmi Kumari • Published 2021 • Art, Sociology

When there is disconnect among audiences and spectators, it poses an essential question. What is the nature of the relationship between audience groups and the Ac spectator, and, by consequence, what role, if any, does the spectator have in the development of and interaction amongst the many cinematic publics are discussed. Let me begin by posing a question that is critical not just for this paper but also for the study of various types of industrially generated (or 'mass') culture in general... [Expand](#)

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### The adoring audience : fan culture and popular media

L. Lewis Sociology · 1992

Part I: Introduction Lewis Defining Fandom Warped or Crazy: Dominant Approaches to Fandom, Jenson The Ideological Role of Stars for Fans, Dyer/Stacey Cultural Politics and the Everyday Lives of Fans... [Expand](#)

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### Resistance Through Rituals : Youth Subcultures in Post-War Britain

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# MODEL OF MARKETING ENVIRONMENT BASED ON INDIAN EXPERIENCE

Dr. Yogesh Kumar, Dr. Anupama Verma • Published 2021 • Business, Economics

In the last decade, India's marketplaces have changed dramatically, from low-involvement to high-involvement product categories. Marketers study the marketing environment in order to predict changes that may occur in the future. These changes may pose both a threat and an opportunity to the company. Marketers continue to adjust their strategy and plans in response to these shifts. The purpose of this research is to trace the scope and nature of marketing practise in India, as well as to suggest a model for guiding it. [Collapse](#)

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## Customer Opinion And Satisfaction Concerning T Privatization On Life Insurance Services-An Emp

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**Dr. Arvind Hans** Associate Professor Department of Management Usl  
University, Angara (Jharkhand)

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### Abstract

Every business organization is subjected to risks and uncertainties or number of risks are avoidable, while others are unavoidable, and over has no control. Insurance is a tool that we can use to protect our ourselves from unavoidable risks like these. The information require has been gathered from two different sources, which are prin secondary sources, respectively. The importance of insurance is grow it performs a variety of both primary and secondary functions. protection against loss are some of the functions performed by in ensuring payment to policyholders in the event of a loss. The target p of all life insurance policyholders in the state of Haryana. In the c questionnaires were distributed to life insurance agents and broke industry contributes significantly to the growth and development economy. When an investor has savings, insurance can be used savings and act as a financial intermediary to promote investmen economy, maintain financial market equilibrium, and create jobs.



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## Consumers Level Of Knowledge On Method Of Use Awareness On Type Of Mobile Banking Facilities

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**Ms. Manisha Chauhan** Assistant Professor Department of Management  
University, Angara (Jharkhand)

### Abstract

Mobile banking is one of the most recent trends in banking and working to improve their mobile banking services to meet consumer demands and priorities. Mobile banking has grown as one of the most practical tools for a country's financial transaction digitalization. It comprises all people of Punjab who have access to a Smartphone and account, which is the whole population of the province. It is necessary to have a bank account in order to use mobile banking services. It is no data that characterizes occurrences before organizing, tabulating, and describing the data gathered in descriptive research. We can say that the state's administration has made significant efforts to achieve literacy; resources have not been properly channeled towards education. Mobile banking services like USSD and UPI are unknown to many individuals in the state. Overall, there was a substantial discrepancy in awareness about mobile banking in general.

**Keywords:** consumer, knowledge, use, awareness, mobile banking



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## Concept Of Bailable And Non-Bailable Offences Under The Criminal Procedure Code, 1973

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**Ms. Nimisha Sinha** Faculty Associate Department of Legal Studies Usha Martin University, Angara (Jharkhand)

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### Abstract

Bail is a legal term that refers to the process of obtaining a person's release from prison while awaiting trial or an appeal by depositing a bond to secure his timely surrender to legal authority. The court that has jurisdiction over the prisoner determines the monetary value of the bail, or more precisely, the bail bond. In a courtroom both parole and bail have unmistakable undertones. The specific structure, under which the application is documented, combined with the petition made and allowed are the conclusive variables to demonstrate its temperament the importance of the term „bail“ is to set free an individual who will be locked up, confinement or is under some sort of limitation by taking security for his appearance. Section 436 of the criminal procedure code, read with Form 45 of timetable II of that code considers two sorts of safety. The Code of Criminal Procedure, 1973, is one such procedural law. In instances of under-preliminaries accused of the commission of an offense or offenses the court is by and large called upon to conclude whether to deliver him on bail or to submit him to imprisonment.

**Keywords:** bailable, non-bailable, criminal, procedure, code, etc.

### 1. INTRODUCTION

Bail is a legal term that refers to the process of obtaining a person's release from prison while awaiting trial or an appeal by depositing a bond to secure his timely surrender to legal authority [12]. The court that has jurisdiction over the prisoner determines the monetary value of the bail, or more precisely, the bail bond. The security can be cash, property title papers, or a bond from a wealthy individual or a professional bondsman or bonding organisation. If a person who has been released on bail fails to surrender at the prescribed time, the security is forfeited. Bail is a post-arrest remedy that allows the arrested person to be released until his trial date. Bail upholds the customary right to liberty before guilt is established. Bail is authorized to protect innocent people from being imprisoned, which would otherwise result in a pre-trial penalty, and to allow an

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## **A Cross Sectional Study To Analyse The Impact Of Inflation On Company**

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**Dr. Arvind Hans** Associate Professor Department of Business Management & Commerce Usha Martin University, Angara (Jharkhand)

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### **ABSTRACT**

The inflation accounting technique enables a company to exhibit or have a realistic image of its profits based on current costs and current sales. As a result, the goal of this research is to see if inflation has a substantial impact on the performance of manufacturing companies. In this study, a cross-sectional design will be used. Based on the population, fifty manufacturing companies will be picked. In order to determine how changes in gross profits are affected by the rate of inflation, this study will employ cluster random sampling and correlation analysis. The results of the study reveal that gross profit and inflation rate have a positive association.

**Keywords:** Inflation, Accounting, Companies, Manufacturing, Cost.

### **I. INTRODUCTION**

Inflation accounting aims to bring reality to financial statements by revising them to represent the financial performance and position of a company over a given period in a truthful and fair manner. Items such as cash and debtors are stated at current purchasing power on the balance sheet, which is created for a certain point in time. Other items, like inventory, are expressed in monetary units that represent recent purchasing power.

Other items on the balance sheet, such as furnishings, land, plant, and equipment, are also stated at historical cost.

When the general price level rises rapidly, a company's reported profits are inflated because a large share of its assets are valued at historical cost. If profits are inflated, costs and expenses must be downplayed as well. This could lead to the reporting of fictitious earnings.

In order to transform monetary units with variable levels of purchasing power into a single monetary unit, accountants employ inflation accounting [10].



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## **Legitimate Provisions And Judicial Contribution Of Education In India**

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**Ms. Tulika** Assistant Professor Department of Legal Studies Usha Martin University, Angara (Jharkhand)

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### **Abstract**

Education was also considered as a means of ensuring that all citizens have equal opportunities in their social and economic lives. As a result, numerous provisions were placed into the Constitution to ensure that everyone had access to education. The court was unequivocal in its assertion that the primary function of educational institutions is to promote education rather than to generate revenue. Among other things, the state is required to make "effective provision" for schooling, among other things. As a result, state administrators are open to regulating the establishment of private schools in accordance with the educational needs of the region. The Constitution expressly provides for the passage of legislation on education by the competent legislative body. The inclusion of education in the concurrent list under Entry 25 has been made possible by the 40th and second amendments to the United States Constitution. Individuals' personal, educational, social, and economic lives are all impacted by their education to varying degrees. In the same way that quality education has enhanced opportunities in life; an economically active populace improves the foundation of a nation and lends greater strength to democracy in the long run. Even the judiciary took an active interest, concluding that the right to education is a basic right.

**Keywords:** legitimate, provisions, judicial, education, India, etc.

### **1. INTRODUCTION**

Throughout India, our Constitution serves as the source of all authority. It is a document that governs not only the administrative machinery, but also the social, economic, and political development of the country, as well as the development of its educational system. According to the National Policy on Education (1986), "The Constitution represents the principles on which the National arrangement of Education is thought about." [14] Every Constitution has a manner of thinking of its own that symbolises the aims, attributes, expectations, and yearnings of its kin."



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## A Detailed Study To Examine The Methods Of Performance Appraisal

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**Ms. Neha Prakash** Faculty Associate Department of Business Management, Commerce Usha Martin University, Angara (Jharkhand)

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### ABSTRACT

Managing and measuring performance became a key aspect of Management ideology-driven administrative changes. A poorly developed measuring and controlling performance, on the other hand, may lead to behavior to be distorted. The methods and processes used by firms to measure the performance of their employees and offer them with feedback through performance appraisal (PA). This method can be utilized for both developmental and administrative goals. Despite the fact that performance appraisal is a key tool for managing personnel, it rarely meets the expectations of managers and employees.

**Keywords:** Employee, Performance, Method, Phases, System.

### I. INTRODUCTION

Performance assessment is a strong tool for calibrating, refining, and improving employee's performance. It aids in the analysis of his accomplishments and assessment of his contribution to the attainment of the organization's goals. Performance appraisal goes to the heart of people management.





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## Law Relating To Right To Food Security Act In Indian Circumstance

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**Mr. Animesh Rishi** Faculty Associate Department of Legal Studies Utkal University, Angara (Jharkhand)

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### Abstract

Food is a fundamental human demand that everyone requires in order to survive. The right to food is frequently referred to as the most fundamental human right. It has been widely recognized as such. The fulfillment of all other rights is dependent on the realization of the right to food. The right to food is accorded a high level of importance in the Constitution. The Supreme Court of India has ruled that it is an integral part of the right to life, which is guaranteed under Article 21 of the Indian Constitution, is the right to adequate and nutritious food. When it comes to food, the Supreme Court of India has taken a strongly pro-people approach. Industrialized countries interpret and protect the right to food, which is a fundamental right. The right to be free of hunger and malnutrition is a fundamental right for every person of the country. The most serious issue is access to food for all. The level of self-sufficiency has increased at the national level, but not at the family level.

**Keywords: Right, Food, Security, Acts, Indian, Article, Etc.**

### 1. INTRODUCTION



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## **An Attempt To Understand The Functioning Insurance Market**

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**Dr. Anupama Verma** Assistant Professor Department of Business M  
Commerce Usha Martin University, Angara (Jharkhand)

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### **ABSTRACT**

Insurance plays a crucial part in the financial sector, but while there  
studies on the incidental association between bank lending and eco  
relationship between insurance and economic growth is frequ  
Insurance firms are one of the most essential financial intermediari  
the duties of the financial system. They play a critical role in risk ma  
businesses and people. This study explores the market's insurance si  
how insurance companies operate and their benefits.

**Keywords:** Insurance, Scenario, Risk, Function, Financial

### **I. INTRODUCTION**

The importance of insurance is becoming because of the expans  
insurance sector in the total financial sector in relatively every creat  
hazard factor in the insurance business is very high, insurance  
resources into more secure wagers, for example, GOIs, PSUs, State  
and home loans of long haul nature. Insurance organizations are im



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## Customer Views Of Factors Affecting E-Serv Of Websites In Online Shopping

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**Ms. Meenakshi Kumari** Assistant Professor Department of Manager  
University, Angara(Jharkhand)

### Abstract

E-commerce is defined as a platform for the purchase and sale of info and services that is backed by computer networks. To manage their commerce enterprises rely on software programmes and solutions th World Wide Web. There is no ignoring the reality that e-commerce India and will continue to thrive in the country. Every merchant in and large, wants to be part of the market place phenomenon and is p fortune off of the market place concept. Recent years have seen the Ec grow at a rapid pace. The reasons for this include the rise of the globa advancement of technology. As a result, both of these variables have a on the expansion of e-retail. Most successful e-commerce compan realise that success or failure is not solely determined by web site price, but also by the electronic service quality provided. Wit digitalization and fierce rivalry among many online shopping pl clients, the E-service quality has become the major factor in determin online shopping enterprises in today's digital age of competition. A recent years. online websites have begun to sell a variety of products



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## Opinion Of The Hon'ble Supreme Court Over Live Relationship And Its Legitimacy

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**Mr. Animesh Rishi** Faculty Associate Department of Legal Studies Usmaniyah University, Angara (Jharkhand)

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### Abstract

Live-in relationships are a type of living arrangement in which an individual lives together for an extended period of time in a manner that is similar to a married pair. Live-in relationships are particularly common among certain groups as a means of avoiding the limits and disadvantages of official marriage while maintaining their independence. From planned weddings to love marriages, the "live-in relationship," a noticeable shift may be observed in our society. Upon examination of the necessity of such partnerships, it becomes clear that financial accountability is the primary motivation for maintaining them. In a context of the increasing prevalence of live-in relationships in India, the Court has ruled that such relationships do not confer any legal rights on either party. In a recent case, the Supreme Court was dealing with a claim for maintenance made by a woman against her husband in the context of a live-in relationship that had lasted for several years. Cohabitation or being in a live-in relationship is frequently viewed as a violation of human rights and individualistic mindset. However, despite the fact that this is prevalent in the majority of western countries, the reality in India within the current social fabric is significantly different.



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## **Globalization And Its Impact On The Media Management In India**

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**Ms. Meenakshi Kumari** Assistant Professor Department of Business  
Commerce Usha Martin University, Angara (Jharkhand)

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### **Abstract:**

India has developed into an important global media power. In India, mass communication serve the people's needs. India's media network is considered one of the largest networks globally. In this paper, we will discuss about the media management and the impact of globalization on the media network. More than 40 research publications from peer-reviewed journals were searched for this article. The articles are categorized by the year they were published, countries, the journal in which they were published, industry type, and research technique. As a result, the publications are scrutinized much more in the context.

### **1. INTRODUCTION**

#### **1.1 Globalization and Media Management in India**

India has developed into a global media powerhouse (Singh and Raizada, 2018). Traditional and modern modes of communication coexisted to meet the needs of the people. The Indian press is over two centuries old and has been shaped by the country's history. The print media network of India is one of the largest media networks in the world. According to Ram (2018), the Indian journalistic



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## Secularism Under Indian Constitution And Judicial Response Of Freedom Of Religion

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**Ms. Tulika** Assistant Professor Department of Legal Studies Usha Mahanta  
University, Angara (Jharkhand)

### Abstract

India is a melting pot of religious traditions. . When it comes to secularism means that religion will have no influence on the country's public life. Religion is protected to a significant extent under the Constitution. As a result of this, Articles 25 and 26 is not restricted to concerns of doctrine or religious beliefs, it encompasses activities performed in the name of "religion," a protection for religious rituals and observances, ceremonies and modes of worship are essential components of religious religion. In a democratic society, religious freedom is unrestricted. Individual religious freedom should be measured in terms of other individuals' religious freedom should be measured. As a result of this, his or her freedom in an equal manner with others. The Constitution of India is the supreme law of the land. Every individual in India has the right to religious freedom as a fundamental norm, which is the Indian Constitution.

**Keywords:** secularism, Indian, constitution, judicial, freedom, religion

### 1. INTRODUCTION

India is a melting pot of religious traditions. Four of the world's eight religions have their origins in India, making it the country where four of the world's



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# A Theoretical Review To The Concept Of Advertising In Present Scenario

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## ABSTRACT

The primary goal of advertising is to educate people about the benefits of a service in order to persuade them to purchase it. Advertisement also creates demand for any new product as well as to sustain and improve demand for an existing product. At the end of the day, all advertising contributes to increase sales. This paper defines what advertising is, examines its history, identifies different strategies and discusses technological advancements and their impact on advertising.

**Keywords:** Advertisement, Business, Promotion, Digital, Technology.

## I. INTRODUCTION

Advertisement is the dissemination of information to a large number of people to encourage them to buy things in order to increase a company's profit. It consists of the following elements:

- (i) It is a form of mass communication that reaches a vast number of people.
- (ii) It allows for mass production.



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## Judicial Stand On Problem Of Female Foeticide In Other Laws A Critical Study

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**Ms. Nimisha Sinha** Faculty Associate Department of Legal Studies U  
University, Angara (Jharkhand)

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### Abstract

The majority of society still adheres to taboos, which drastically physical movement and destroys their self-esteem, thus repres existence. Dowry deaths are a phenomenon that continues to spread a The only variation is in the forms, which change over time and from Women are treated as second-class citizens, given secondary status, subjected to numerous ordeals, and denied the right to exist. Women, of the human population, face numerous challenges. Female foeticide heinous types of violence against women, in which a woman is deni and fundamental right to life. All of the limits imposed by the Medic Pregnancy Act, 1971, including the time limit of 20 weeks, other than establish good medical conditions, violate Article 21's guarantee of t violating the right to abortion and the right to health. . There are sentences for doctors who engage in this practise. In spite of this, imp has been problematic because sex selection occurs inside the doctor-p Most of the time, it's a cultural issue rather than a religious one. U extremely young children is known as infanticide. There are indigen cultures all over the world where it is practised today.





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## Computer Programs Copyright And Need Of "Adequate" Intellectual Protection

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(Arunachal Pradesh)

**Ms. Tulika** Assistant Professor Department of Legal Studies Usha Mahanta  
University, Angara (Jharkhand)

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### Abstract

Scientific and technological knowledge is built up over time, the scientific and technological knowledge is dependent on the timely disclosure of new findings, which allows them to be quickly discarded to be unreliable, or confirmed and brought into productive collaborative bodies of reliable knowledge. Traditional intellectual property protection programmes was provided by copyright rather than through patent copyright, which was originally intended to protect literary property extended to cover other forms of artistic expression. Besides protection against unauthorized duplication of books, the Act also faces new difficulties as a result of the rapid speed of technological progress. As being and economic development progresses, the software industry software services in particular will play a major role. No matter how Indian's software industry has been a vital force in the spectacular computer software. A computer programme is an example of an intellectual property does not fall within the standard types of intellectual property protection this, it has been suggested that widespread Internet use and information have led to the death of copyright protection for computer



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## Decriminalization Of Adultery In India

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University, Angara (Jharkhand)

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### Abstract

Adultery is defined in general as the act of a married person having sex with someone who is not legally their wife. Adultery was criminalised under the Indian Penal Code. Adultery is an affront to a husband's right over his wife. A man who violates the sacredness of marriage commits a misdemeanor, a peculiar and unlawful deed. The Supreme Court has found that restricting adultery to males alone when charging adultery does not constitute a fair and just classification of wrongdoers. The Supreme Court previously determined that the Indian Penal Code did not violate Article 21 of the Indian Constitution. However, the Supreme Court recently declared the adultery statute as invalid to the extent that it treats a man to be his wife's master. It diminishes a lady's dignity. The Court determined that a woman's husband was not her master. Section 497 of the IPC is held to be completely arbitrary and unreasonable in that it grants an unconstrained authority to a husband unlimited authority over his wife. This article aims at discussing various aspects for which adultery is being decriminalized in India and the new trends within the legislation.

**Key Words:** Adultery, Sexual relation, decriminalize, Indian Penal Code



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## **Core Determinants Of Work Life Balance In Term Importance For Public And Private Banking Secto**

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**Mr. Nitesh Kumar Faculty** Associate Department of Management Us  
University, Angara (Jharkhand)

### **Abstract**

Employees are more satisfied when they have a decent work-life balance. Attaining goals, WLB not only assists organisations, but it also assists the labour market is becoming increasingly competitive, and corporate outsourcing to reduce labor costs and increase profitability and productivity. Secondary sources of data are used in the data collection process. This combination of both sources. Bankers in India's public and private measured using the WLB. Professionals from both public and private complete 1,000 surveys. We can say that healthy balance between work reflects the positive behaviour and performance of the employee both at work and at home. Whereas a bad balance between the two reflects the poor behaviour of an individual both at work and at home. When it comes to banking, it is the management to grasp the employee's perspective in order to better meet the demands for their families at home and so fulfill them at their place of

**Keywords: work life balance, importance, public, private, bank, e**



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## Critical Analysis Of Section 377 Of Indian Penal Code

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### Abstract

India is a democratic country, and its citizens have certain rights guaranteed by the Indian Constitution. Equal rights, non-discrimination based on religion, race, gender, or place of birth, freedom of speech and expression, and personal liberty are individual freedoms guaranteed by "Articles 14, 15, 19(1)(a) of the Indian Constitution<sup>1</sup>. Nonetheless, despite the fact that the Supreme Court decriminalised the behaviour in the case of *Navtej Singh Johar v. Union of India*, section 377 of the Indian Penal Code 1860 criminalises consensual homosexual intercourse. Unlike normal procreative intercourse, the word "heterosexuality" was used to describe sexual pathologies between men and women, such as oral and anal intercourse. In nineteenth-century Europe, homosexuality was used to describe emotions between people of the same sex. Colonial laws deemed it unnatural and power was used to enact laws that outlawed unnatural intercourse in the Indian world. This work is the subject of Section 377 analysis. It investigates the history of the judicial system's rise to jurisdiction in India. Section 377 was interpreted and discussed. The study begins with a brief overview of the section, including what it says, who it affects, who it is, and what it does. The study then investigates the history of the judicial system's rise to jurisdiction in India. The purpose of this thesis is to determine whether or not the Supreme Court's decision in *Navtej Singh Johar v. Union of India* is a landmark decision.



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## Reserve Bank Of India Guidelines And Legal Concerns Involved In Internet Banking

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### Abstract

The banking industry is regarded as the backbone of the country's financial system, and it is also recognised as a major service sector significantly to the country's economy. The Indian banking system is headed by the country's central bank, which is also known as the Reserve Bank of India. Internet banking provides access to a diverse range of services and features. Several groups on Internet banking have been established by the Reserve Bank of India. The goal of discovering new and innovative features in the context of Electronic banking refers to a series of technological marvels that have emerged in recent history that have involved the use of the Internet to deliver banking services as e-banking continues to evolve, it will have a significant impact on the banking industry and on banking relationships in general. E-banking allows the government in maintaining records of transactions, allowing banks to reduce paperwork while also being extremely time efficient and accurate. It helps to avoid standing in long lines for transactions and makes it simple for customers to track of their spending and transactions.

# International Journal of Grid and Distributed Computing

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## Evaluating The Performance Of Biaxial Geogrid Reinforced Concrete Slab Compared To Steel

Mr. Mohan Maheshwari, Mr. Manish Kumar

### Abstract

Geogrid, a geosynthetic material, is being utilized to strengthen soils and other comparable materials in the construction industry. Geogrid is a type of reinforcement material that is widely used for subsoil's under roadways and reinforced retaining walls. When compared to soil, it has a far greater ability to bear strain. Because of this, it is possible to distribute the pressures across a wider area of soil than would otherwise be possible. An exploratory comparative study through using multiple kinds, tensile strengths, and layering's of geological reinforcement as reinforcing fillers to steel bars in comparison to a conventional steel-reinforced concrete control slab is conducted in this paper with the goal of innovating a hybrid reinforcement system for concrete slabs, comprised of geogrids and steel bars. When these concrete slabs broke owing to bending, they were subjected to four-point loading until they were replaced by new ones. In addition, strain gauges were mounted to the bottom reinforcement of the concrete slab (geogrids and steel bars) in order to conduct a detailed investigation of the performance of geogrids and steel bars as a hybrid reinforcement system.

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## A Study On Characteristics And Applications Of Biometrics

Dr. Rajesh Kumar Upadhyay, Dr. Abhishek Pandey

### Abstract

*The biometrics are connected to the human body and its activity in many ways. The introduction of biometrics is intended to address the shortcomings of the present conventional identification system, which relies on PINs, cards, and other means of identifying. This article provides a comprehensive overview of the history of biometrics. In addition, it contains a description of the biometric system. Face, fingerprint, and signature recognition are all commonly acknowledged biometric features in today's culture; thus, it is necessary to design a robust biometric algorithm with low values of FRR, FAR, and EER and high values of TSR that is both fast and accurate.*

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# International Journal of Disaster Recovery and Business Continuity

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## International Space Law For Expansion Of Space Debris And Ionization Effects

Mr. Jitendra Yadav, Dr. Atibha Vijaya Singh

### Abstract

*There has been a resurgence of interest in environmental issues. A first move towards environmental protection was taken by UN agencies in the 1970s. Committee on the Peaceful Uses of Outer Space (COPOUS) and its legal sub-committee of the United Nations have been active in holding conferences to discuss and adopt new guidelines for space operations. An international law can be defined as a body of law made up of the principles and codes of conduct that governments feel obligated to follow and consequently follow when they interact. As a result of Space Debris in the Ocean, aquatic animals, plants, and the eco-system are adversely affected. This is due to the tidal currents in the water which distribute the radioactive material. As a result, we can't declare that the space debris floating in the ocean is harmless. In addition to companies and other non-governmental entities, the International Law of Outer Space has an impact on their space activities. A major purpose for satellites is telecommunications, navigation and remote sensing Earth resources. They are also employed in measurement and metrology.*

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# Studying Demographic And Clinical Pattern In Contemporary Prospective Of Atopicdermatitis

Mr. Dipanshu Garg, Dr. Sailesh Narayan

## Abstract

*An atopic dermatitis (AD) is a common, chronic skin illness that can have a substantial influence on the affected persons' and their families' quality of life. Pathogenesis of this condition is not fully understood although it appears to be a complicated interaction between skin barrier dysfunction, environmental and infectious agents as well as immunological abnormalities. On the basis of established three or more major and minor criteria, conspicuous presentations of atopic dermatitis were documented in a pre-set proforma, which also noted age, duration of the disease and gender. The results were presented in this study. End result: Atopic dermatitis is an overt, age-related IgE-related phenomenon that has a wide range of demographic and clinical implications.*

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Mr. Dipanshu Garg, Dr. Sailesh Narayan. (2021). Studying Demographic And Clinical Pattern In Contemporary Prospective Of Atopicdermatitis. *Drugs and Cell Therapies in Hematology*, 10(3), 183-189. Retrieved from <http://www.dcth.org/index.php/journal/article/view/487>

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# A Comparison Study Of Hptlc Over Tlc And Possible Applications Of Hptlc

Mr. Rahul Singh, Ms. Avishikta Ray Das

## Abstract

*HPTLC is a powerful analytical method that is equally suitable for qualitative and quantitative analytical tasks, and it is one of the most current analytical tools available. HPTLC is based on TLC, but with improvements that improve the resolution of the compounds to be separated and allow quantitative and qualitative analysis of the compounds. The potential for hyphenating HPTLC with other analytical techniques looks to offer a lot of promise for analysts who were previously hesitant to adopt planar chromatography.*

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# POWER TRANSFER AND FORCED GENERATION USING DYNAMIC WIRELESS POWER TRANSFER

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Lecturer, Department of Mechanical Engineering, Mangalayatan University, Beswan, Uttar Pradesh.

**Mr. Ashutosh Kumar**

Faculty Associate, Department of Mechanical Engineering, Usha Martin University, Ranchi, Jharkhand.

## ABSTRACT

For both environmental and motion control reasons, electric vehicles (EVs) are becoming more popular. Compared to internal combustion engines, their electric motors provide a faster and more accurate torque response than conventional engines. In spite of their limited range, electric cars need frequent recharging because of their poor range per charge. As a consequence, achieving wireless power transfer—the transmission of electromagnetic energy without the need of physical connections such as cables or waveguides—requires compromising on numerous critical requirements (such as efficiency) (such as stability). Several different devices and items are necessary for a smart home to function (IoT). Using electrical hookups or Lithium batteries to power all of them just confuses things further. Wireless power transmission (WPT) uses magnetic fields to transfer energy across short distances."

**KEYWORDS** Electric vehicles (EVs), Dynamic charging, system, wireless charging, wireless power transfer.

## INTRODUCTION

Aside from the obvious environmental benefits, electric vehicles (EVs) are also capable of sophisticated motion control. Compared to internal combustion engines, their electric motors can respond more quickly and precisely to torque. Electric vehicles, on the other hand, must be charged often because of their restricted range. Users should be charged and the load should be reduced as a result of a charging network being established. Wireless power transfer systems for charging automotive accumulators are getting enough attention right now. Batteries may now be recharged on the go, which is in line with the norms of the world's most advanced nations. Wireless power transmission for moving transportation vehicles is still in the prototype stage, however, according to the latest research and development. The electromagnetic induction technology is used to charge accumulated batteries through wireless electro power transfer. Wireless power transmission systems that use electromagnetic inductance and a long distance between their transmitting and receiving transformer windings might benefit from the resonance inductive power transfer technology.

## LITERATURE REVIEW

**MINGZHAO SONG ET.AL (2021)** The usage of wireless power transfer is limited due to the fact that it depends on electromagnetic field management techniques that were initially introduced decades ago and that it sacrifices certain essential aspects in the process (such as efficiency). — the transmission of electromagnetic energy without physical connectors like wires or waveguides — is becoming increasingly common (such as stability). Wireless power transmission has evolved in recent years thanks to new methods of manipulating electromagnetic fields. For wireless power transmission, new physical effects and materials are being developed. These are discussed below. Some of the solutions that we are investigating include coherent perfect absorption, exceptional points, and parity–time symmetry, as well as on-site power generation. The utilisation of acoustic power transmission, as well as the usage of metamaterials and metasurfaces, is also examined in this study Aspects of wireless power transmission technologies that might be explored in the future are also discussed here.

**ALI HAJIMIRI ET.AL (2021)** Our circuits and algorithms demonstrate arbitrary and nonuniform array-based dynamic 3-D lensing and focusing of electromagnetic power in radiative near- and far-field regions. Long-range wireless power transfer, volumetric sensing and imaging, high-speed communications, and optical phased arrays are just a few possible applications. A system's theoretical performance limits may be calculated. Adaptive algorithms do not need prior information of the receiver's location in order to focus power on the receiver(s) (s). As a result, it uses orthogonal bases to simultaneously adjust the phases of many components. 2-D orthogonal and pseudo-orthogonal matrices are generated using Hadamard and pseudo-Hadamard matrixes. There's no need for factory calibration since the GU and RU work together to quickly and reliably focus energy. For low-rate and high-latency communications, orthogonality allows batch processing. For immediate refocusing at various places, secondary vector-based computations may be used. The use of an emulator allows for more thorough testing of a system. The RF lensing methods described in this article can be used successfully, according to extensive testing. At distances larger than one metre, a wireless transmission may recover more than 2 W of dc power. Dynamic power projection is possible at different angles

# INVESTIGATING TENSILE PROPERTIES OF HYBRID LAMINATES

**Dr. Kishan Pal Singh**

Assistant Professor, Department of Mechanical Engineering, Mangalayatan University, Beswan, Uttar Pradesh.

**Dr. Asim Ahmad**

Assistant Professor, Department of Mechanical Engineering, Usha Martin University, Ranchi, Jharkhand.

## ABSTRACT

Impact damage and post-effect tension strength behaviour are examined in this research, and the impact of laminate stacking sequence is quantified. In this work, three configurations of hybrid woven Carbon and Glass composite laminates are investigated and compared in order to better understand their performance. It's also worth noting that tensile testing have long been the most widely used method for characterising the mechanical reactivity of composite materials. In spite of this, there is currently no viable direct way for conducting tensile testing on composite laminates at lower temperatures. At low temperatures, determining the tensile characteristics of composites, particularly the ultimate strength, is not simple. High tensile and shear strength, for example, was to blame. Polymer matrix composites' tensile tests at low temperatures have showed noticeable irregularities in terms of strength ratings. Low-temperature testing issues can include specimens dropping out of the test holder during the test.

**KEYWORDS** Tensile test, hybrid composites, Residual tensile strength, Fibre polymer.

## INTRODUCTION

They are employed in a wide range of applications because they have diverse mechanical qualities and are low in weight. Automobiles, aeroplanes, tyres, sporting equipment, and even the military have all used composite materials extensively. Polymer matrix composite materials may be used in a variety of ways depending on the kind of reinforcing material used. However, fiberglass-reinforced polymer composites are less expensive to produce than carbon or aramid fiber-reinforced polymer composites because of their higher density and lower strength. We wanted to find out more about the tensile qualities of these hybrid materials so that we might use them in sports and engineering. Hand layup process was also used to distinguish woven glass and jute materials in novel stacking sequences. A comparison and validation of the experimental tensile findings with those obtained from the finite element analysis (FEA) was performed. Fractography was also used to examine the interfacial properties of materials.

## LITERATURE REVIEW

**YUANHENG YAO ET.AL (2022)** Chemical properties such as carbon fibre reinforcement and basalt fibre reinforcement make these materials popular in the automotive and naval industries. It was shown that CFRE, BFRE and their combinations were sensitive to changes in strain rate. Quasi-static strain rate: 0.0017s<sup>-1</sup>; dynamic state: 0.1s<sup>-1</sup>; 10, 100, and 150 strain rates were used. The shattered specimens were examined in detail. All of the hybrid composites tested demonstrated stacking sequence sensitivity, according to the findings. Peak forces of two hybrid constructions were found to be between those of BFRE and CFRE, with H1 and H2 each improving by 3 and 29 MPa, respectively, compared to BFRE in the quasi-static condition of the test. BFRE and CFRE have better mechanical characteristics in the static condition than any of the three hybrid constructions. Strain rates affected the hybrid composites as well. Five structures' peak forces rose significantly when loading speed shifted from a quasi-static to a dynamic condition. However, the strain rate sensitivity of the three structures (BFRE, H1, and H2) rose as the stretch speed increased in the dynamic range. Straining revealed stratification in all five structures. There were fewer microcracks in the cross-section after dynamic stretching compared to the cross-section after quasi-static stretching. The sequence sensitivity of three hybrid structures might be explained by the tight mix of fibres and resin.

**ANANT JOSHI ET.AL (2021)** The main goal of this article is to comprehend the importance of hybrid laminates reinforced with various types of synthetic and natural fibres on mechanical and fracture toughness properties with a clear understanding of their applications in the structural, aerospace, automotive, offshore, and packaging industries, among others. ;. The importance of natural fibres in enhancing the mechanical characteristics of hybrid composites is explored using a variety of hybrid composites made using a variety of approaches. The numerous experiments performed to evaluate the mechanical and fracture behaviour of hybrid composites made from Flax, Sisal, Kenaf, Jute, and Banana fibres have been thoroughly reviewed methodically. Researchers all across the world have taken notice of the profusion of natural fibres with low cost, environmentally beneficial, and biodegradable qualities.

# Performance Assessment Of Image Restoration Using Vhdl Design

**Dr. Rajesh Kumar Upadhyay<sup>1</sup>, Dr. Abhishek Pandey<sup>2</sup>, Mr. Dinesh Kumar<sup>3</sup>**

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Mangalayatan University, Beswan, Uttar Pradesh

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Ranchi, Jharkhand

<sup>3</sup>Assistant Professor Department of Electrical and Electronics Engineering.  
Mangalayatan University, Beswan, Uttar Pradesh

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## ABSTRACT

In this research, we offer an image that, in its unique shape, has a tremendous amount of information that requires not only extensive memory requirements for its stockpiling, but also makes sloppy transmission over a constrained data transfer channel. Steps like image transformation, quantization, and entropy coding can all benefit from this technique. Image compression standard JPEG uses DCT and DWT to transfer the image from spatial to Web-domain, making it one of the most often used formats. Images helter-skelter frequencies, to which overwhelming quantization may have a chance to be concluded so as to reduce the extent in the converted representational, hold low visual majority of the data previously.

## KEYWORDS

## INTRODUCTION

People began to link images with computers because of the rapid development of science and technology, especially the development of computer technology. Scanning is a viable option for many priceless artifacts, including ancient paintings and calligraphy, important documents, and even vintage videos. But if you keep them for a long time, they'll get scratched up and stained. Scratches and mildew stains are inevitable with long-term storage of photos and with repeated viewings of movie films. To varying degrees, each of these options will alter the image's appearance. [1]

# Security And Privacy Of Iot For Source Location For Future Enhancement

Ms. Naghma Khatoon<sup>1</sup>, Mr. Abhishek Kumar Gupta<sup>2</sup>

<sup>1</sup>Assistant Professor Computing And Information Technology Usha Martin  
University, Ranchi, Jharkhand

<sup>2</sup>Assistant Professor, Computer Science, Mangalayatan University, Beswan, Uttar  
Pradesh

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## ABSTRACT

The Internet of Things (IOT) future is already here. Healthcare, energy, and industrial automation are just a few examples of industries where IOT applications have had a significant impact. In the midst of all the benefits that the Internet of Things (IOT) has provided, new dangers have also surfaced. These risks are getting easier to deal with, but there are still a lot of unanswered questions. This study proposes "IOT characteristics" to better identify the core causes of new dangers and issues in current research today. Eight new IOT features were then examined in terms of their impact on security and privacy, including the dangers they pose, the remedies now in place, and the problems that remain to be addressed. Since this study analyses all known research works linked to IOT security from 2013-2017, it shows how IOT characteristics have an influence on the current state of research in this sector.

**KEYWORDS:** Internet-of-Things (IOT), IOT features, privacy, security, survey.

## INTRODUCTION

Our lives will be made easier by the Internet of Things (IOT), a new technology that allows electronic devices and sensors to talk with one another through the internet. The Internet of Things (IOT) uses smart devices and the internet to give innovative solutions to a broad variety of commercial, government, and public/private sector concerns. Our everyday lives are increasingly being transformed by the Internet of Things (IOT), and it can be felt all around us. There are many smart systems, frameworks, and devices that can be connected to the Internet of Things (IOT). Quantum and nanotechnology are also used to attain previously inconceivable levels of storage, detection and processing speed. Quantum and nanotechnology An abundance of online and print

# Optimization Of Low Power Digital Vlsi Using High Speed Sram

**Ms. Karuna Kumari<sup>1</sup>, Mr. Dheeresh Upadhyay<sup>2</sup>, Shaheen Jahan<sup>3</sup>**

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<sup>3</sup>Assistant Professor Department of Electrical and Electronics Engineering.  
Mangalayatan University, Beswan, Uttar Pradesh

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## ABSTRACT

Today's mobile communication devices are equipped with large-capacity memory in order to accommodate all of their customers' multimedia needs. Providing high-bandwidth and low-power memory are the primary concerns of today's design engineers. In this post, we've constructed a low-power SRAM cell by modifying the Multi-threshold CMOS architecture. CMOS transistors with different threshold voltages may be used to reduce power consumption and delay. This study suggests an exciting technique to decrease leakage current in idle state to reduce power usage. These three variables—voltage, temperature, and transistor size—all have an impact on how much power an SRAM cell consumes when tested this way. To reduce the memory structure's power consumption, a novel SRAM cell design has been proposed in this work. Comparatively speaking, the 45 nm SRAM cell is smaller than a normal 6T SRAM module. There is a 21% reduction in power consumption when compared to conventional 6T SRAM architectures, according to simulations.

**KEYWORDS:** Tanner EDA, CMOS design, Static Power, Power gating.

## INTRODUCTION

When designing for extremely large scale integration, it is essential to take increased power consumption, transistor density, CMOS size scaling into account (VLSI). Both dynamic and static power dissipation are included in CMOS circuit power dissipation. When the system is running, the circuit generates dynamic power. A CMOS circuit's



## Performance And Architecture Of Cloud Computing For Energy Consumption And Task Scheduling

Dr. Ritushree Narayan<sup>1</sup>, Mr. Love Kumar<sup>2</sup>

<sup>1</sup>Assistant Professor Computing And Information Technology Usha Martin  
University, Ranchi, Jharkhand

<sup>2</sup>Assistant Professor, Computer Science, Mangalayatan University, Beswan, Uttar  
Pradesh

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### ABSTRACT

Energy saving and "green" technologies that can be applied to data centers and networks in order to address these concerns are surveyed in this article. In this section, we'll go through the latest approaches to building more energy-efficient data centers, and we'll focus on the hardware, power supply specifications, and cooling infrastructure that make up the majority of a data center's overall architecture and energy use. Taking a closer look at network energy use, we analyze numerous techniques to reducing power consumption in access and core networks. In addition, we shed light on current advancements in energy-efficient virtual machine deployment and dynamic load balancing technologies. A fresh research effort for establishing energy-efficient light routes in computational grids is presented at the end of this chapter.

**KEYWORDS:** Cloud Computing, Task Scheduling, Architecture, Performance

### INTRODUCTION

An Internet or Intranet connection is often used to connect the front end of a cloud computing system to its back end. The primary goal of a cloud computing environment is to make best use of the computer resources that are readily available. Algorithms for scheduling are critical in the optimization process. Because of this, user tasks must be scheduled using an efficient method. Scheduling algorithms typically aim to disperse the workload across the available processors and maximize their usage while reducing the overall execution time to the absolute minimum. In the world of NP-complete problems, one of the most well-known is task scheduling. The primary goal of task scheduling is to arrange tasks in such a way that they may be completed within the limits of a given situation. Over the years, a slew of heuristic optimization techniques have been created to help with cloud-based job scheduling. Special class of Artificial

# Optimization Of Enhanced Link Quality For Ad-Hoc Networks

**Dr. Sharmistha Roy<sup>1</sup>, Mr. Devesh Kumar Upadhyay<sup>2</sup>, Sharma Sonu Kumar<sup>3</sup>**

<sup>1</sup>Associate Professor Computing And Information Technology Usha Martin University, Ranchi, Jharkhand

<sup>2</sup>Faculty Associate Computing And Information Technology Usha Martin University, Ranchi, Jharkhand

<sup>3</sup>Assistant Professor, Computer Science, Mangalayatan University, Beswan, Uttar Pradesh

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## ABSTRACT

QoS can't be guaranteed in wireless mobile ad-hoc networks because topology changes so often. Instead, this research proposes a dynamic multipath routing protocol that may automatically pick the best path for different types of data traffic based on current conditions. With multiple-path measurements and weighed cost functions, bandwidth estimates, and DDET counts, various kinds of traffic may get the QoS they need. According to the simulation findings, the new approach is capable of attaining better round-trip speeds and packet delivery ratios than the current protocols. This research has proven that multipath metrics choices may be utilised to boost throughput and minimise end-to-end latency in mobile ad-hoc networks.

**KEYWORDS:** Round trip time; Wireless mobile ad-hoc network; Data-driven expected transmission; Multipath-metric routing protocol; Quality of service; Packet delivery ratio.

## INTRODUCTION

ad hoc networks are self-contained nodes in a wireless network (Corson et al., 1996). There is a virtual link between nodes in an ad hoc network. As soon as the nodes of an ad-hoc organisation begin to communicate, a network is instantly formed. Each node in the network communicates with each other using radio waves. Because there isn't a central AP or base station, the network's nodes may talk to each other. The term "ad hoc network" refers to a local area network that connects automatically to other network nodes (Frodigh et al., 2000).

# Cross-Layer Mobility For Performance Analysis In 5g

**Dr. Vinay Singh<sup>1</sup>, Bhawana Singh<sup>2</sup>, Mohd Hamza Zaki<sup>3</sup>**

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Pradesh

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## ABSTRACT

Individual radio connections may be customised for a variety of services, traffic patterns, demographics of end-users, and a unique data-user experience starting with 5G NR access networks, pushing 5G as the first QoS-driven radio network. Newer networks, like as the 5G NR approach, are designed to meet the individual needs of each use case or scenario in terms of throughput and latency as well as packet error rate, delay budget, or any other quality of service measure. Cumulative distribution function of  $\eta|H_i$  for  $I = 0, 1$ . As you can see,  $H_1$  and  $H_0$  are the two hypotheses that may be tested in this example: that the received signal is being broadcast by a lawful IoT device and that it is being broadcast by an intrusion device, respectively. Cumulative distribution function of  $\eta|H_i$  for  $I = 0$  is given by  $F|H_i(x)$ . As you can see,  $H_1$  and  $H_0$  are the two hypotheses that may be tested in this example: that the received signal is being broadcast by a lawful IoT device and that it is being broadcast by an intrusion device, respectively.

**KEYWORD** 5G, networks, Quality of Service, 4G

## INTRODUCTION

The initial need for 5G NR access networks is to tailor radio connections for a wide variety of services, traffic patterns, demographics of end users, and various user experiences of data. For each use case or situation, the 5G NR approach is a user-

# ANALYZING PHARMACOLOGICAL SCREENING TECHNIQUES

Dr. Barun Ranjan Sarkar, D. Garg, S. Narayan • Published 2022 • Chemistry, Medicine

**TLDR** Chemical and instrumental approaches for drug assessment have been developed repeatedly to ensure that medications serve their intended function and they must be tested for contaminants at various phases of their production, shipping and storage. [Expand](#)

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emulsions.		
Most strong adhesion	Alumina	Al <sub>2</sub> O <sub>3</sub>
	Charcoal	C
	Fluorite	MgO/SiO <sub>2</sub> (anhydrous)
Least strong adhesion	Silica gel	SiO <sub>2</sub>

Table 1

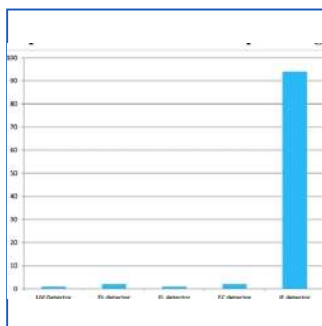


Figure 1

visible spectrophotometric procedures			
Reagent used	Name of drug	Year	Reference
α-Cresol	Acetaminophen	640	Qureshi et al. (1992)
p-Chlorosulfonic acid	Quetiapine fumarate	320	Vinay and Revanasiddappa (2012)
	Mibione	319	Siddiqui et al. (2009)
2,3-Dichloro 5,6-dicyano 1,4-benzquinone	Duloxetine	477	Tokur and Onal (2012)
	Antidopamine	580	Rahman and Huda (2003)
Chlorsulf	Dutasteride	525	Kumar et al. (2012)
	Lisinopril	320	Rahman et al. (2007)

Table 2

Technique	Drugs determined	Remark	Reference
Voltammetry	p-blocker drugs	Nafion-coated glassy carbon electrode	Nigerici et al. (2011)
	Resignitation	Square wave adsorptive stripping voltammetry	Al-Ghamdi and Hefnawy (2002)

Table 3

## 5 References

# SCREENING OF INDIAN MEDICINAL PLANT IN HIGH FAT DIET OF DIABTEIC PATIENTS

Mr. Abhishek Pandey, R. Samanta • Published 2022 • Medicine

PPAR, the protein receptor of interest in this work, has a significant binding capacity for andrographolide, a confirmed herbal legend. The resulting legend was likewise judged to be a good drug gable character match according to Lipinski's rule of five. This myth may one day be put to use in the treatment of diabetes. For the in vitro study, the antioxidant, anti-diabetic, anti-inflammatory, and antiglycation efficacy of five different solvent extracts was assessed. Experiments reveal that the extracts have a significant degree of activity and are dependent on the concentration they are administered to.

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# Stages Of Crime Under Ipc 1860

**Dr. Shailender Singh** Associate Professor, Legal Studies & Research, Himalayan University, Itanagar, AP.

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**Ms. Nimisha Sinha** Faculty Associate, Legal Studies, Usha Martin University, Ranchi, Jharkhand.

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## ABSTRACT

A human being's only two options in India are to survive and obey the law. Various factors such as gender, age, birth place, language, etc. India's culture is one of the world's oldest, dating back to the third millennium BCE. The cultural, philosophical, religious, sociological, and linguistic diversity of India is enormous. No one can deny the obvious: we require a society free of violence, and the only way to achieve that goal is to keep crime under control. Even while we may not be able to completely eliminate crime from our society, we are continually striving to make it less of a problem. Only when the state enforces law and order with extreme rigour can people be free from terror and crime. Maintaining order in society is made easier by a robust and effective penal code. Several critical phases are encompassed by the term "crime." Under the Indian Penal Code 1860, the article explains the many stages of a crime in great detail.

**KEYWORDS:** Crime - I.P.C. 1860 – Law and Order – Stages of Crime

## INTRODUCTION

Criminal law is a set of laws and statutes that provide penalties for behaviors that are prohibited by the state because they endanger or harm the public's safety and well-being. Criminal law is distinct from civil law, which places a greater emphasis on resolving disputes rather than punishing those who break the law.

Criminal law is a broad word that encompasses both procedural and substantive criminal legislation. Criminal laws that have substance are those that specify what constitutes a crime and how it should be punished. Criminal Procedure, on the other hand, explains how criminal laws are implemented. The legislation outlawing murder, for example, is an example of a substantive criminal statute. When it comes to enforcing this law, it's generally considered a procedural concern how the state does so.



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## Fundamental Approach Of Uniform Civil Code In Indian Constitution

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### ABSTRACT

"The State must endeavour to ensure for people a uniform civil code across the territory of India," says Article 44 of India's Constitution. The planned code has not been produced or deployed after more than six decades. To create an Indian Uniform Civil Code, the authors of this book use lessons learned from other countries' civil codes as a guide. There are many inter-community and intra-community conflicts involving questions of law, culture and religion. Guidelines and considerations are included in the book to aid with this process. We've taken cues from the way other countries have dealt with the difficulty of creating civil codes while still respecting existing local laws and social practises. Religious-state connections are also examined in this framework. The Muslim or Hindu majority group should be reassured by this set of recommendations. For two distinct but related reasons, a Uniform Civil Code may be crafted in a democratic society to ensure the long-term viability of cultural and societal norms while simultaneously reinforcing constitutional ideals that protect the rights of girls and women.

**KEYWORDS:** Social, Uniform, Community, Relationship, Uniform, Code

### INTRODUCTION

India's constitution specifies that the state is responsible for ensuring that all inhabitants of India have access to a Uniform Civil Code (UCC) under Article 44 of the Directive Principles of State Policy. As a result, it promotes the idea of "One Nation-One Law," regardless of the individual's religious beliefs. It is the primary goal of the Uniform Civil Code to replace existing personal laws based on religion texts and traditions in India with standard sets of regulations that apply to all citizens equally. Marriage, divorce, inheritance, adoption, and maintenance are all covered under personal law, which is distinct from public law. All "personal



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## Recent Trends In Organized Crime In India

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### ABSTRACT

The term "transnational organised crime" (TOC) refers to a wide range of illegal acts, including drug and human trafficking, drug smuggling, piracy, and money laundering. Conflict-torn and unstable nations are particularly prone to the dynamics of TOC and may provide more favourable circumstances for its growth. There are many and grave ramifications for such states. A look at how TOC has changed in recent years and how policy might be altered to take this into account is the focus of this study. There is a growing emphasis on opportunistic networks, rather than state-sponsored cartels, in today's TOC. These networks may specialise in transportation and logistics, for example. The study suggests a holistic approach to solving the issue, which emphasises TOC as only one factor in a much larger chain of events. A re-evaluation of many present TOC assumptions and a rethinking of current policies would be required.

**KEYWORDS:** Crime, Assumption, Serious. Transport, Logistics, Transnational, Trafficking

### INTRODUCTION

Access to reliable data on global organised crime trends will be critical to the TOC Convention's implementation and monitoring. In all corners of the globe, crime has been transformed by globalisation and economic interconnectedness. A globalised economy, improved communications and information technology, and blurred national boundaries have all contributed to the spread of crime away from its traditional home base. As a result, understanding modern-day organised crime requires an understanding of globalisation as a whole.

Organized crime poses a serious threat to public safety. Organized criminal activity is followed by an attempt to acquire financial and political benefit. Such groups may be causing an incalculable amount of harm to society. Contrasting





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## Legal Issues In Teacher Education

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### ABSTRACT

Quality and excellence in higher education and teacher education are being prioritized by the Indian government in order to improve education quality at all levels. There are numerous studies on the topic of teacher quality that can be found in many academic libraries. Educational slang of the 21st century has evolved to include discussions on what it is, how it is formed, and how it relates to student accomplishment. Finally, we explore concerns and challenges in teacher education in this article, which provides an overview of teacher education problems and evaluation in India. There are citations to a number of research on classroom dynamics and teacher conduct in certain topic areas. It is also investigated whether teacher profiles may be used to improve staff development and academic performance.

**KEYWORDS:** Teacher Education, Teacher Quality, Quality Education, Higher Education

### INTRODUCTION

Educating teachers is the process of providing them with the knowledge, attitudes, behaviors, and skills they need to carry out their duties in the classroom and school efficiently. Early teachers were frequently scholars or clergymen who had no professional training in how to teach the subjects they were experts on. "Teachers were born, not made," according to many people. Training teachers was not deemed vital until pedagogy, the "art and science of teaching," became widely regarded as a study. Some people believe that teachers are "born" rather than "taught," but this has been debated since at least the nineteenth century. Regardless, it is generally agreed that certain characteristics are required to qualify a person as a teacher: knowledge of the material to be taught, knowledge of teaching methods, and real-world experience in putting both into practice. These are the most common themes in teacher training programmers nowadays. A teacher's internal character is also a



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# Legal Issues And Corporate Citizenship In India

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**Ms. Tulika** Assistant Professor (HOD), Legal Studies, Usha Martin University, Ranchi, Jharkhand.

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## ABSTRACT

Corporate citizenship (CC) and organizational citizenship behavior (OCB) are examined in this study with a focus on a few Indian banks. The study relied on 430 managers from public and private sector banks for its sample of multi-cross-sectional descriptive empirical data. A CC scale produced by Meagan and Ferrell in 2000 and an OCB scale developed by Lee and Allen in 2002 are used in the instruments. The correlation between CC and OCB was found to be statistically significant. CC's ethical and discretionary dimensions are also important predictors of employee OCB, according to the findings. The data in the article is used to examine how CC and OCB are affected by demography. Employees' perceptions of CC and OCB are found to be influenced by the demographic variable of age in the organizations. An important take away from this research is that it shows how important it is for managers to effectively communicate the company's citizenship practices to employees in order to help them cultivate healthy work attitudes.

**KEYWORDS:** Corporate, economic, legal, ethical, discretionary, organizational behavior, regression

## INTRODUCTION

It is widely accepted that the demands imposed on corporations have changed as a result of globalization. Regaining public trust, managing various risks, and meeting increasing stakeholder expectations are all top priorities for businesses as they strive to remain successful in an increasingly globalised environment. Consequently, the topic of corporate citizenship (CC) has come to the fore. It's a new way of thinking about the relationship between business and society. It's no longer just about complying with the law and doing good deeds; it's about corporate governance, strategy, risk management, and reputation building in top firms. Corporate image, brand building, marketing strategy, sales turnover and financial



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## Constitutional Privileges For Gender In Equality In India

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**Dr. Geeta Shrivastava** Professor, Legal Studies & Research, Himalayan University.

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### ABSTRACT

Despite India's rapid economic development and several government initiatives to promote gender equality, a gender gap persists in the country. Gender inequity threatens not only the lives of current and future generations, but also the resources and opportunities available to women. In this post, we'll take a closer look at India's gender disparity issue. There are a number of ways to minimize gender disparity in India that are discussed in this article.

**KEYWORDS:** Education, Gender, India, Inequality, Policy.

### INTRODUCTION

Identifying and addressing gender inequity go hand in hand. Whether or not a certain activity has contributed to an increase or decrease in gender disparity over time, or how well a particular county or region is doing in terms of gender equality, can only be determined by measurement. Making an index that incorporates many aspects of gender disparity to assess the performance of a country or region is no small feat. Indicators must be selected and weighted appropriately within a dependable and similar framework in order for this to operate. It's critical to pay attention to regional and national differences. These details are lost in the attempt to generalize these things to other countries, which may be relevant in some countries and not relevant in others, which is a mistake. There are two parts to this chapter. To begin with, Section A provides an overview of the many national and international indices now in use, as well as some of the criticisms they have received. Section B aims to quantify gender inequality; the goal is to build a composite index of gender inequality that is free of the same critiques as other indices and captures the Indian perspective.

# Mechanical and thermomechanical properties of vinyl ester/polyurethane IPN based nano-composites

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Jagesh Kumar Ranjan<sup>1</sup>  and Sudipta Goswami<sup>2</sup>

## Abstract

Interpenetrating polymer networks of vinyl ester (VE) resin and polyurethane (PU) were synthesized using blend ratio of 93:7(w/w). Two sets of nanocomposites based on i) pure vinyl ester and ii)VE/PU IPN(93VE), were prepared with organically modified silica nanoparticle (OMS) as filler by 1, 2, 3 and 5% weight of the matrix resin. All the nanocomposites were characterized in terms of mechanical and thermomechanical properties.VE/silica nanocomposite with 2% filler (VES2) showed improvement in ultimate tensile strength by 83.5% and toughness by 42% compared to that of VE resin itself. The IPN based nanocomposite, 93VES2, exhibited 31.14%, 10.8% and 18%greater tensile strength, Young's modulus and toughness respectively in comparison to that of the base 93VE IPN. IPN based nanocomposites were tougher than VE based nanocomposites. Storage modulus of nanocomposites was lower than that of 93VE and VE matrix system. Higher  $\tan\delta_{\max}$  of the 93VE/OMS nanocomposites than that of the 93VE matrix was indication of more elastic nature of the later. Smaller size of dispersed domains was found in SEM micrographs for IPN based nanocomposites than that in micrographs of VE based nanocomposites of corresponding composition.

## Keywords

Organically modified silica nanoparticle, nanocomposite, interpenetrating polymer networks, vinyl ester, polyurethane

Received 22 March 2020; accepted 20 December 2020

## Introduction

Vinyl ester (VE) resin is widely used in coating, adhesives, and fiber-reinforced composite formulation owing to its high strength and modulus, low shrinkage, and excellent thermal stability. However the resin suffers from brittle behavior when it is cured.<sup>1</sup> The toughness of VE had been increased by blending with an elastomer,<sup>2</sup> a thermoplastic,<sup>3</sup> another thermoset<sup>4</sup> and by the incorporation of inorganic nanoparticles.<sup>5</sup> Blending two polymers, being an effective way to devise novel polymer materials with optimized properties, was tried in the present work for the improvement in toughness of VE.<sup>6,7</sup>

Formation of interpenetrating polymer networks with epoxy resin, polyurethane etc. to enhance the toughness, thermal stability and mechanical strength, are reported by Song et al.<sup>8</sup> Tang et al.<sup>9</sup> prepared a series of PU based gradient IPNs from Polyurethane/Vinyl Ester Resin IPN systems, which has the better mechanical and thermomechanical properties than conventional IPN.

Parmar et al.<sup>10</sup> reported that the three-component IPN matrix based glass fiber-reinforced composites made with the vinyl ester of an epoxy novolac resin, diglycidyl ether of bisphenol-A and MMA. They found that it is resistant to the chemicals and has better thermal, mechanical properties than neat resin.

Hui Jin et al.<sup>11</sup> prepared the IPN based on epoxy resin and polyurethane pre-polymers to improve the damping properties but has poor tensile modulus and strength than pure epoxy. It also shows the improved toughening of epoxy matrix.

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## Study The Importance Of Culinary Tourism Scenario And Factors That Affected On Food

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**Mr. Nitesh Kumar** Associate Professor, Faculty of Business Management  
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### ABSTRACT

Understanding the developing significance of culinary the travel ind  
investigation investigates culinary inclinations of unfamiliar vac  
reviews led at different places of interest in India. To disting  
underneath, information identified with inclinations was factor disse  
the investigation recommends that vacationers' inclinations join in  
specifically, the flavor and texture of food, as well as how it is pre  
which it is eaten, and the method in which it is served. In addition, a  
see if tourists who had never met each other were able to get along.  
resulted in three distinct groups, namely, those who seek out the f  
seek out boundaries, and those who seek out adventures. Aspects of tl  
on advertisers and analysts are also discussed in the investigation

**Keywords** Culinary tourism, foreign tourists, India, preferences, segm



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## Study The Systematic Approach Of Hospital To Solid Waste Management In Rural Area

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University, Mathura - Aligarh Bypass Rd, Highway, Beswan, Uttar Pra

### ABSTRACT

The main reason for this paper is to give a perspective on hospital w  
and natural issue in India. The goal of this examination is to dissec  
waste management framework, including practices and compliance  
the world, particularly the developing nations, are facing the bleak cir  
out of ecological contamination because of obsessive waste arisin  
populaces and the subsequent fast development in the quantity of  
India, there are around 6 lakhs hospital beds, more than 23,000 e  
habitats, in excess of 15,000 little and private hospitals. In India, the  
(Management and Handling) Rules 1998 make it compulsory for hos  
other clinical and veterinary institutes to discard bio clinical wastes c  
to the guidelines. The couple of studies on bio clinical waste manag  
have set up that hospitals didn't oversee medical care waste appropri

**Keywords:-**environmental pollution, solid waste and health care



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## Study On Impact Of Banking Industry A Key Factor For Customer Satisfaction In Hotels

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**Dr. Vivek Mittal** Professor, Department of Management. Himalayan U  
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### ABSTRACT

Consumer loyalty in the travel industry is a critical boundary for su  
from site attractions, foundations and others, convenience offices as  
part for a place of interest. This paper centers around consumer  
administration quality gave by an inn in a traveler site. Reason: Our g  
elements of those characteristics of administration in such an inn, whi  
for consumer loyalty and along these lines to make a consumer lo  
investigation found that fulfillment for the most part relies upo  
elements of administration quality, one is fundamental help and offic  
exceptional administrations. It has risen up out of the examination t  
with advanced education level, couples and higher family unit pay  
more fulfilled more with the top notch administrations of convenienc  
are their decision time. Going to a visitor for explicit need and issue,  
like a room administration in a charming way add as per the genera  
client. As the visits viable are short and incessant, just to connect w



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## The Implications Of The Covid 19 Outbreak Party Logistics Providers In Pune

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**Dr. Prakash Divakaran** Professor, Department of Management. Him  
Itanagar, A.P.

### Abstract:

Covid 19 epidemic in Pune, Maharashtra, is the subject of this article, third party logistics service provider. The use of this system in Pune organisation reveals that coordination's expert companies are computerised issues from new improvements, such as self-ruling and printing, as well as stage-based models and a common economy. This investigation is on the developments taking place in the competitive a portion of the market share held by 3PLs that focus on large administrative risk shortly. As a result, third-party logistics (3PL) may be reduced to if administrative capabilities relating to 3PLs are continuously provided competitors Pune 3PL customers and suppliers have a forward-looking because of the Coronavirus epidemic. Despite the risks, the Corona referred to be an opportunity. Incorporating "best in class" activities benefits," "dissemination of stock and circulation of framework," "the as a future vehicle framework, and the selection and coordination c





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## **The Role Of The New Jungle Safari: Implications Of Jungle Safari Tourism For Experience Wildlife Tourism**

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### **ABSTRACT**

The fundamental reason for this paper is to gain a comprehension of the travel industry. In India, since, antiquated occasions, people build untamed life the travel industry. In the current presentation as v populace, living in uneven and sloping locales rely on the timberland natural conditions to meet their everyday needs. They are occupied v wild creatures and fowls. Though, untamed life the travel industry i among the people, living in metropolitan networks. The principal zor considered in this paper are, characterization of natural life in th arranging and overseeing untamed life in the travel industry, untan division, timberland, biodiversity, and land use in India, ecological, effects and human-untamed life clashes and making natural life th maintainable.



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## Evaluative Study Of Patient Satisfaction Private Or Government Hospitals

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**Mohammad Arsalan Ahmad** Assistant Professor, Institute of Busine  
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### ABSTRACT

There are still a few challenges that the medical care business faces be  
In many ways, enhancing patient care is one of the most challengin  
care organisations' ability to provide timely and effective patient tr  
their long-term viability. Emergency clinics, on the other hand, mus  
key concerns, including improving the efficiency with which the  
administration, from security attitudes, verification procedures, pri  
the discharge of clients from the health centers. The purpose of this a  
whether or not the treatment centers under investigation are meeti  
patients. Urgent hospital professional support is examined in thi  
research intends to determine and examine if there are  
urgent healthcare institutions in terms of the satisfaction of their pat  
patients of three of the most prestigious good insurance clinics was o  
reach the goal. Patients' views on enrollment and confirmation, clea  
the opinions of experts and assistants, medications, as well as costs a



# Experimental investigations on active solar dryers integrated with thermal storage for drying of black pepper

D.V.N. Lakshmi <sup>a</sup>, P. Muthukumar <sup>b</sup>  , Prakash Kumar Nayak <sup>c</sup>

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## Highlights

- Studied the drying characteristics of black pepper in active mode solar dryer
- Drying efficiency and specific energy consumption of solar dryers are evaluated
- Black pepper took 14h and 53h for drying in solar dryer and open sun drying
- Antioxidant value of black pepper dried in case-I is higher than other cases
- Mixed mode dryer with thermal storage is more suitable for black pepper drying.

## Abstract

This study focusses on the experimental analyses of two active horizontal solar indirect solar dryer (Case-II) integrated with latent heat storage system designed for drying of black pepper. The drying time required to reach the desired moisture content of 0.14 was 14h and 23h, respectively. While, it took 59h in open sun drying (case-III). The case-II saved 76% and 60% of drying time respectively compared to case-III. For the developed solar dryers are more beneficial. It is seen that the overall dryer efficiency is higher in case-II. Quality analyses in terms of proximate analysis and anti-oxidants of the samples were carried out. The carbohydrates and protein values were rich in case-II. Oxidant contents of samples dried in case-I and case-III were 45.69  $\mu$  mol TE/g and 35.69  $\mu$  mol TE/g, respectively. The ash substance of the samples dried under case-III was high compared to case-II.

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# International Journal of Grid and Distributed Computing

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## Trust Based Resource Selection With Hybrid Optimized Scheduling In Cloud Computing

Mr. Umesh Chandra Sharma, Dr. Md. Amir Khusru Akhtar

### Abstract

*The suggested hybrid method, which is based on the BAT algorithm, was used to optimize scheduling. BAT-GSA and BAT-HS are two hybrid algorithms that help to reduce local minima in the BAT algorithm. It is proposed in this paper to maximize scheduling by combining BAT, the Gravitational Search Method (GSA), and the Harmony Search (HS) algorithm. BAT scheduling combined with trust-based resource selection provides the shortest makespan in 371.26 seconds, according to the simulation results. Trust-based scheduling decreases makespan by a percentage ranging from 1.55 percent to 5.22 percent depending on which optimization approach is utilized.*

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Section

# Optimal Cluster Selection Method Using Bat Algorithm

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**Abstract:** Clustering is an unsupervised learning strategy that involves splitting a data object or observation object into a subset, i.e., categorizing the data using observation learning rather than example learning and without the supervision of preexisting class label knowledge. The Bat Algorithm (BA) is a swarm intelligence optimization technique inspired by bats' ultrasonic echo location foraging activity; nevertheless, it is vulnerable to local minima and lacks precision. As a consequence of this study, the OCSA algorithm was devised and presented. The OCSA algorithm was developed using BAT algorithm and energy model parameters. The proposed algorithm is compared to the LEACH, and R-LEACH algorithms under various convergence factors. The findings show that the proposed OCSA algorithm's clustering effect outperforms other intelligent optimization methodologies. After which WCV is introduced and the results are compared with OCSA, LEACH, RLEACH and the result shows that WCV is beneficial for the network's lifetime.

**Keywords:** Bat algorithm, echo location, clustering, OCSA, LEACH, R-LEACH, swarm intelligence optimization, WCV.

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## 1. Introduction

Clustering is a kind of unsupervised learning in which a data item or observation object is divided into subgroups. Observational learning will be utilized to classify data rather than example-based training, and no prior class label information will be employed (Madhulatha, 2012).

Bionics-based algorithms for swarm intelligence are now gaining popularity. People have successfully used biological world inspiration for practical problems, and they have also produced a variety of meta-heuristic swarm intelligence algorithms based on biological system behavior. The particle swarm optimization (PSO) algorithm is inspired by the swarm behavior of birds and fish (Wang, Tan, & Liu, 2018). The harmony search (HS) algorithm, which is inspired by the behavior of simulated musical instruments (Manjarres et al., 2013), and the bee colony algorithm (BCA) (Ebrahimzadeh & Mavaddati, 2014), are examples of such algorithms.

The Bat Algorithm (BA) is a swarm intelligence optimization approach inspired by the ultrasonic echo localization foraging behavior of bats. However, the strategy is not advised since it might get locked in local minimums and lacks extreme precision. As a result, an enhanced bat algorithm was suggested. On actual data sets, LEACH, and R-LEACH algorithms, together with the enhanced bat algorithm(OCSA), are compared in this work regarding the clustering impact that they produce under convergence factors. According to the findings of the simulations, the

# Architecture Of Security And Data Protection In Smart Cities

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## ABSTRACT

Governments throughout the globe are progressively making large investments in the creation of smart cities. Over time, rather than via a single choice, cities have progressed from digital to green to linked to sustainable to eco-friendly to eco-friendly and so on. In today's technological revolution, we're seeing the rise of GPU-based multi-core computers, 5G connection, cloud computing, and artificial intelligence. Several of these new technologies have contributed to the development of smart cities. There are many new technologies that have emerged in the present period such as 5G wireless connection and quick GPU multi-core-based servers, big data, cloud computing, artificial intelligence, and data analytics. There are a number of new technologies that have aided in the creation of smart cities and their implementation. In this article, we lay out a framework for smart city security and explain exactly what we meant by it.

**KEYWORDS:** Security, Data Protection, Smart Cities, Architecture

## INTRODUCTION

66 percent of the world's population is expected to live in cities by 2050, with more than 54 percent presently residing in cities. Cities' long-term survival is being jeopardised by a broad variety of technological, social, economic, and organisational difficulties brought on by the fast growth of the population and increasing urbanisation. As a result, most governments are looking to implement "smart" principles to maximise the use and exploitation of both physical and intangible assets.

The term "smart city" refers to the intelligent and coordinated use of all available technology and resources to create connected, livable, and sustainable metropolitan

# A Modified GA-Based Load Balanced Clustering Algorithm for WSN: MGALBC

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Dinesh Kumar, Jaipur National University, India

Md Amir Khusru Akhtar, Usha Martin University, India

## ABSTRACT

The prevalent applications of WSN have fascinated a plethora of research efforts. Sensor nodes have serious limitations such as battery lifetime, memory constraints, and computational capabilities. Clustering is an important method for maximizing the network lifetime. In clustering, a network is divided into virtual groups, and CHs send their data to the BS either directly or using multi-hop routing. CHs are some special nodes having more energy than normal nodes. In fact, these special nodes are also battery operated and consequently power constrained; thus, they play a vital role in network lifetime. Cluster formation is very important and improper design may cause overload. This paper presents a modified GA-based load balanced clustering (MGALBC) algorithm for WSN. It is better than GA-based load balanced clustering (GALBC) algorithm because it balances the load by considering the residual energy. The result shows that the proposed method is better than GALBC in terms of energy consumption, number of active sensor nodes and network life.

## KEYWORDS

Chromosome, Cluster Head, Gene, Genetic Algorithm, Integer Programming, Load Balancing, Residual Energy, Sensor Node, Wireless Sensor Network

## 1. INTRODUCTION

Wireless sensor networks (WSN), are geographically distributed autonomous sensors which are deployed either arbitrarily or using some predefined provision. It is used to monitor the physical or environmental characteristics such as temperature, pressure, humidity, sound etc. shown in Figure 1. The collected data is cooperatively forwarded to the base station for application specific decisions. Furthermore sensor nodes have serious limitations in terms of battery lifetime, memory constraints and computational and communication capabilities.

Lots of works have been proposed in the field of energy efficient clustering and routing but they have serious limitations in terms of implementation complexity, load balancing, data fusion and the energy conservation.

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# Energy Efficient Clustering and Routing Algorithm for WSN

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**Authors:** Kumar, Mohit; Mittal, Sonu; Akhtar, Amir K.

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Abstract



References



Citations



Supplementary Data

This paper presents a novel Energy Efficient Clustering and Routing Algorithm (EECRA) for WSN. It is a clustering-based algorithm that minimizes energy dissipation in wireless sensor networks. The proposed algorithm takes into consideration energy conservation of the nodes through its inherent architecture and load balancing technique. In the proposed algorithm the role of intercluster transmission is not performed by gateways instead a chosen member node of respective cluster is responsible for data forwarding to another cluster or directly to the sink. Our algorithm eases out the load of the gateways by distributing the transmission load among chosen sensor node which acts as a relay node for inter-cluster communication for that round. Grievous simulations show that EECRA is better than PBCA and other algorithms in terms of energy consumption per round and network lifetime.

**Objective:** The objective of this research lies in its inherent architecture and load balancing technique. The sole purpose of this clustering-based algorithm is that it minimizes energy dissipation in wireless sensor networks.

**Methods:** This algorithm is tested with 100 sensor nodes and 10 gateways deployed in the target area of 300m ×





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## FULL-LENGTH ARTICLE

# Enhancing cooperation in MANET using neighborhood compressive sensing model

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## KEYWORDS

Compressive sensing;  
Neighborhood group;  
Leader node;  
Malicious node;  
Neighborhood compressive sensing

**Abstract** This paper presents the use of Compressive Sensing (CS) in the reduction of resource consumption to minimize battery and bandwidth usage. It also focuses on how attacks and misbehavior can be nullified. The proposed Neighborhood Compressive Sensing (NCS) model compresses the neighborhood sparse data such as routing table updates, advertisement and trust information. It minimizes resource consumption because major computations are performed by the leader node. The use of compressive sensing gives the reduction in resource consumption because it reduces the amount of transmitting data in the network. It also prevents a network from unwanted advertisement and attacks because the neighborhood nodes do not accept the advertisements and updates directly, rather it uses leader node's processed information. The proposed NCS model is implemented in "GloMoSim" on top of the DSR protocol, resulting its effectiveness, as compared to the DSR protocol when the network is misconducting for its selfish needs. Simulation result shows that the proposed NCS model is outperformed DSR in terms of the energy consumption, network lifetime and packet dropping ratio. This work is the extended version of Reduction in Resource Consumption to enhance cooperation in MANET using Compressive Sensing (Akhtar and Sahoo, 2015) [68].

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*Abbreviations:* LN, leader node; BN, border node; RN, regular node; CS, Compressive Sensing; NG, neighborhood group; NCS, Neighborhood Compressive Sensing

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## 1. Introduction

Mobile ad hoc network (MANET) is an infrastructure-less, self-organized network in which a group of wireless devices (nodes) cooperate each other for its network operations. Unlike a wireless infrastructure network, an ad hoc network has certain characteristics such as lack of fixed infrastructure, self-organization, dynamic topology, multi-hop routing and energy constrained operation. An ad hoc network is a self-organized network because it does not involve any central authority or base station. Therefore, all ad hoc nodes need

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## A PIONEERING INITIATIVE TO CREATE SUSTAINABLE INCOME GAIN FOR TRIBAL HOUSEHOLDS – A CASE STUDY OF “BIRSA HARIT GRAM YOJNA” UNDER MGNREGS IN JHARKHAND

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**Abstract** - The small and marginal families in rural Jharkhand struggle to survive as limited livelihood opportunities are available, specifically the Scheduled tribal communities of Jharkhand. The government is running multiple programs to support these suffering families. Many initiatives are very slow in their impact as they have traditional components of schemes. Whereas, one of them has created an impact within a few years of implementation due to its innovative aspect of the focus on livelihood generating asset building of individual households. The initiative known as Birsa Harit Gram Yojna under MGNREGS has been able to create such buzz, yet it has boundaries and problems. In pilot schemes, mainly tribal families have experienced positive contributions towards their sustainable income opportunities, change in the social status of women along with respective households in the village, interaction with the market, and faith in government-sponsored schemes has increased. The impact is visible in the families who participated in the piloting phase. The challenges are to improvise it to benefit a larger mass across Jharkhand. The study has been conducted in three piloting districts namely Khunti, Gumla and Lohardaga of Jharkhand. Findings are reporting the encouraging outcomes for families under the scheme.

The income has started contributing to improving the family's economic as well as social status. More families have started showing interest in participating in the scheme to take benefit of this initiative. The apathy of the government system, in general, is the biggest obstacle in addition to creating informative awareness about the scheme.

The paper is attempting, to see through the intent of the scheme to explore the impact on the ground, for further replicating the scheme, making recommendations for further policy formulation. The methodologies include a thorough study about the program of Birsa Harit Gram Yojna, and the questionnaire-based interview of the beneficiaries and few case studies of the benefiting families. The study will contribute to the policymaker, program implementor and add information and knowledge to the research fraternity.

**Keywords** - Sustainable Income Gain, Tribal Household, Jharkhand, MGNREGS, Horticulture

### I. INTRODUCTION

Jharkhand is one of the states in India known for its different tribal communities, forest, mining coals and ores, migrating labourer to pan India, Left Wing Extremist actions, and adolescent girls working as a housemaid in metros. The agriculture-based livelihood in rural Jharkhand is unable to engage its workforce around the year. Mono crop rainfed agriculture, only 9.3% irrigated area of the total cultivated area of the state, poor rural connectivity, lack of sufficient and ineffective health and education system in the rural part of state add more drudgeries to families residing in rural Jharkhand.

Jharkhand is the habitat of more than 30 different scheduled tribes including, nine primitive tribal groups (PVTGS). Almost 76% of the total population of Jharkhand is rural. However, about 82% of the total working population is from the rural geography of the state.

The families in villages of Jharkhand traditionally have been cultivating crops like paddy, few pulses,

millets, and oilseeds like Niger, linseed, etc. covering 92% of the total cropped area with much less productive than the country's average productivity. To mitigate the requirements of the family's basic needs, members of the family at an early age migrate to distant places in search of livelihood opportunities. Mostly they do unskilled work in civil construction, agriculture, tea garden labourers, housemaid, etc. So, remittance has become another contributing source in the local economy next to agriculture.

The government is running various programs of social welfare including livelihood enhancement for the rural population. Which included skill-building, infrastructure to support agriculture, etc. in general. The schemes and projects are being implemented by various departments of the government for rural households to make decent life and livelihood for them. Many of these are providing immediate relief to families, whereas others are taking long time to create sustainable income-generating options for targeted households.





## A Study of Select Human Resource Practices in FHRAI Listed Hotels in Jharkhand (India)

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### ABSTRACT:

The Hotel Industry in Jharkhand has got enormous potential to attract skilled and trained manpower, but there is a huge gap between the supply and demand sides which are raising some serious questions regarding the sustainability of the industry. The modest advantage of organizations in the hotel industry is their human resource practices. The aim of the authors in this article is to study the select human resources practices in FHRAI listed hotels in Jharkhand (India). We will study the practices of hotels in two main selected areas of human resource management, namely: compensation management and performance appraisal. However, the hotels in Jharkhand find their ways in terms of human resource practices and there has been less attention given to the development of human resource practices. Therefore, the implementation and development of human resource practices mostly depend on the individual hotel general manager or the hotel operator and available financial incomes. Human resource practices help the organization to aim high in terms of organizational outcomes. This study will help to identify and understand the select human resource practices adopted in the hotel industry with specific reference to FHRAI listed hotels in Jharkhand (India).

**KEYWORDS:** Human resource select practices, compensation management, performance appraisal, training & development, FHRAI listed hotels, Jharkhand

### INTRODUCTION

Hospitality is a rapidly expanding industry worldwide, and it is expected to remain a leading contributor to the global economy by generating desired foreign exchange reserves and simultaneously creating employment opportunities (Akanksha Pal, 2021, p. 1). The development of human resources (HR) remains the most crucial and significant factor for the success of the hospitality industry regardless of the country (Anuradha Mitra, 2020, p. 118). It is a challenge for the hotel business to implement the HR practices as employees every so often resist changes and usually like to continue with the traditional human resource practices.

Jharkhand as a state has many cultural heritages and is having great natural beauty with flora and fauna. It is a state which is surrounded by the lush green forest, wildlife, waterfalls, handicraft, folk dances, music, water bodies, and simple peace-loving people. Jharkhand is blessed with biodiversity, pleasant climate, cultural and historical heritage, religious places, which make it a unique and preferred tourist destination. Tourism has grown leaps and bounds in Jharkhand in recent years and the government has also worked towards the improvement of infrastructural facilities, improvement in tourist locations, development of new tourist sites, and launch of new hotels and restaurants for the comfort of the tourist.

The most important aspect of organizational performance is human resource practices. Employees are considered to be an asset for any organization and therefore they are always considered as the source of competitive advantage. To deal with these current challenges, the capability and skills of an organization's employees have gradually become vital for its better performance (Oday Hussein Ali, 2021). Many researchers have found that now organizations are giving utmost priority to human resource practices since it has a direct impact on organization success. There are certain constraints like budget and also the lack of clear thought process in understanding the role of human resources, very few organizations have been successful in establishing an independent human resource department. Earlier the scale of economics, access of capital, and the regulation of the competition were part of strategic organization plans, but now HR is treated as a source of competitive advantage, and human capital is very difficult to emulate or not be easily acquired (Peter A. Bamberger, 2014). In Jharkhand, HR practice was not taken seriously till recently. Despite enough proof, many hotels at Jharkhand have not readily accepted and implemented HR practices, which are required for high organizational performance. To make them more efficient, many hotels have started to treat HR as a separate entity to accept the challenges posed by globalization. However, the acceptance of HR practices is still in its initial phase in the hotels of Jharkhand. Besides cost-cutting, improving the quality of their products, and increasing product functionality, HR practices are an absolute necessity to gain a competitive advantage. It is rather easier to imitate the process or methods of guest satisfaction, technology, and strategic plans of the business, but the human resource is something that needs immaculate planning with proper implementation. As organizations are experiencing gigantic transformations in the demands for products and utilities they provide, there is a need to



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# Essential Key to Success for Hospitality Academicians in India: The Requisite Focus on Morality

Viveka Nand Sharma<sup>a\*</sup>, Arvind Hans<sup>b</sup>, Shailendra Kumar Rai<sup>c</sup><sup>a,b</sup> Usha Martin University, Ranchi-Jharkhand – India<sup>c</sup> IIMT University, Meerut, Uttar Pradesh – India

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## ABSTRACT

There is a critical role of teaching in advanced Education all over the world, and a lack of high-quality facilitators, and professors may lead to low-skilled graduates become liabilities to society in later stage and slow economic growth. Veracity and morality need to be inculcated in the minds of the people. People having high ethics and values become the backbone of the nation. It becomes the academicians' responsibility to inculcate veracity, authenticity, social responsibility, and communication skills in students by leading by example. Academicians should evaluate students in such a way so that students can become successful. Warren Buffet advised three qualities to be a successful person: intelligence, and energy, and he advocates that if you have veracity, he will kill the other two. Marilyn Price states that all academicians must practice the infusion of veracity in their teaching. All students must be inculcated with five fundamental values: respect, fairness, trustworthiness, and morality in the education system.

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## 1. Introduction

Global education monitoring report 2020/21 on Accountability in education: meeting our commitments states, "Everyone believes that today's young children are the future of tomorrow, but hardly people think about the

a sought-after course. The rapid changes in the workplace and fierce competition have led to a compromise on the professional standards. Therefore, it becomes significant for academicians well aware of ethics and values to ensure the hospitality industry becomes



## A Study of Select Human Resource Practices in FHRAI Listed Hotels in Jharkhand (India)

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### ABSTRACT:

The Hotel Industry in Jharkhand has got enormous potential to attract skilled and trained manpower, but there is a huge gap between the supply and demand sides which are raising some serious questions regarding the sustainability of the industry. The modest advantage of organizations in the hotel industry is their human resource practices. The aim of the authors in this article is to study the select human resources practices in FHRAI listed hotels in Jharkhand (India). We will study the practices of hotels in two main selected areas of human resource management, namely: compensation management and performance appraisal. However, the hotels in Jharkhand find their ways in terms of human resource practices and there has been less attention given to the development of human resource practices. Therefore, the implementation and development of human resource practices mostly depend on the individual hotel general manager or the hotel operator and available financial incomes. Human resource practices help the organization to aim high in terms of organizational outcomes. This study will help to identify and understand the select human resource practices adopted in the hotel industry with specific reference to FHRAI listed hotels in Jharkhand (India).

**KEYWORDS:** Human resource select practices, compensation management, performance appraisal, training & development, FHRAI listed hotels, Jharkhand

### INTRODUCTION

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Jharkhand as a state has many cultural heritages and is having great natural beauty with flora and fauna. It is a state which is surrounded by the lush green forest, wildlife, waterfalls, handicraft, folk dances, music, water bodies, and simple peace-loving people. Jharkhand is blessed with biodiversity, pleasant climate, cultural and historical heritage, religious places, which make it a unique and preferred tourist destination. Tourism has grown leaps and bounds in Jharkhand in recent years and the government has also worked towards the improvement of infrastructural facilities, improvement in tourist locations, development of new tourist sites, and launch of new hotels and restaurants for the comfort of the tourist.

The most important aspect of organizational performance is human resource practices. Employees are considered to be an asset for any organization and therefore they are always considered as the source of competitive advantage. To deal with these current challenges, the capability and skills of an organization's employees have gradually become vital for its better performance (Oday Hussein Ali, 2021). Many researchers have found that now organizations are giving utmost priority to human resource practices since it has a direct impact on organization success. There are certain constraints like budget and also the lack of clear thought process in understanding the role of human resources, very few organizations have been successful in establishing an independent human resource department. Earlier the scale of economics, access of capital, and the regulation of the competition were part of strategic organization plans, but now HR is treated as a source of competitive advantage, and human capital is very difficult to emulate or not be easily acquired (Peter A. Bamberger, 2014). In Jharkhand, HR practice was not taken seriously till recently. Despite enough proof, many hotels at Jharkhand have not readily accepted and implemented HR practices, which are required for high organizational performance. To make them more efficient, many hotels have started to treat HR as a separate entity to accept the challenges posed by globalization. However, the acceptance of HR practices is still in its initial phase in the hotels of Jharkhand. Besides cost-cutting, improving the quality of their products, and increasing product functionality, HR practices are an absolute necessity to gain a competitive advantage. It is rather easier to imitate the process or methods of guest satisfaction, technology, and strategic plans of the business, but the human resource is something that needs immaculate planning with proper implementation. As organizations are experiencing gigantic transformations in the demands for products and utilities they provide, there is a need to

# Industrial Internet of Things (IIoT)-Driven and AI-Enabled Framework for Smart Manufacturing System

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**Abstract**— Artificial intelligence and the industrial internet of things have evolved the product manufacturing process, illuminating production and stability. Machine design and Industry 4.0 make use of IIoT applicants. Participating in AI and IIoT technologies to develop manufacturing machines that adhere to Industry 4.0 standards is a challenge. The above mentioned method is being used to plan an autonomous design machine and a smart manufacturing atmosphere. The internet of things (IoT) connects all the digital interfaces, process of data analysis, physical world control. As a result, a significant increase in productivity might be noticeable that improves the quality of life of humans. The world has evolved and everything is connected in this present time and digitised. The internet of things is expected to change the way of life and work method. The industrial IoT is confronted with the challenge of safety issues and privacy issues.

**Keywords:** IIoT, Smart Manufacturing, Technology, Sustainability, Product, Supply

## I. INTRODUCTION

In this modern era of digitization, all the industries are adopting smart manufacturing systems. Industries that are present in this modern time goes through several hurdles such as data security issues, inclining costs, workforce turnover, safe operation, performance reliability and so on. Smart manufacturing systems are helpful for the industries to deal with the above mentioned issues. It includes the application of emerging technologies such as artificial intelligence, internet of things; cloud computing, machine learning, big data analytics and many more [1]. IIoT helps the industry to gain a higher level of vision and insights during their operations. Moreover, it is also helpful to utilise the entire data as the industry can adopt the smart manufacturing system appropriately. Smart manufacturing processes generate a huge amount of data and artificial intelligence is extensively important to recognize anomaly patterns, learn more and collect knowledge from the past experiences. Furthermore, it can predict machine life and boost the workforce efficiency of the industry.

## II. TECHNOLOGICAL ENHANCEMENT IN SMART MANUFACTURING

For adopting the smart manufacturing process, the most crucial thing is to implement the most advanced technology. In order to adopt the manufacturing process, there are a lot of different kinds of technologies developed and implemented. Different kinds of advanced technologies are *Management of Supply chain (SCM)*, *Management of Product Lifecycle (PLM)*, *Customer and Relationship Management (CRM)*, *Planning of Enterprise Resources (ERP)* and *Manufacturing*

*Execution System (MES)*. This portion highlights the role of these technologies and their effectiveness in developing the smart manufacturing system.

### A. SCM

SCM helps to synchronize demands and necessities of the consumers with the instrumental deals and suppliers along with the material supply flow all the way to the consumers. The supply chain contains manufacturing, raw resources, sales, suppliers, distribution and consumers [2]. The modern version of SCM designed with AI is able to *minimize the risk factors* and it can *improve the sustainability of the supply chain*.

### B. PLM

PLM is able to *reduce the manufacturing costs* through maintaining a product by its lifecycle. The components of the product life time are product design, maintenance, production, recycle, service and logistics [3]. This stage has three periods such as beginning of the life (BOL), middle of the life (MOL) and end of the life (EOL). For applying PLM along with advanced analytics the most necessary part is to collect the required data from the authentic sources. Among the above mentioned phases, the beginning of life is the most crucial phase and it contains production of the products and its design. For performing the designing phase, authentic data sources are helpful for the manufacturer to *understand the market demands and the needs of customers* [4]. According to the demand and needs the manufacturers can *develop the features of their products*. In the MOL phase, data sources consist of product logistics, warranty services of the products and maintenance of the products.



Fig. 1: product Life cycle Management (Source: [5])

**A Critical Study on Indian Law on Corporate Criminal Responsibility****Vikas Sharma<sup>1</sup>, Sushmita Das<sup>1</sup> and Nimisha Sinha<sup>2</sup>**<sup>1</sup>Institute of Legal Studies and Research, Mangalayatan University, Aligarh, UP<sup>2</sup>Faculty of Law, Usha Martin University, Ranchi, Jharkhand

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**Abstract:** Crimes perpetrated by corporations in the twenty-first century are posing an increasingly complex problem for the criminal justice system. A few vested interests that dominate the affairs of corporate entities utilise the corporate body to commit criminal crimes to maximise profit. To regulate its functions, a corporation is given a legal personality. Still, because it lacks a physical body and a mind of its own, it is difficult to classify it as criminal and impose criminal culpability on it. Infrastructural development, public health, and the environment are all negatively impacted by corporate criminality. It is not uncommon for corporations to be involved in a wide range of criminal activities, including embezzlement and tax evasion as well as benami property transactions. Modern criminal justice necessitates clear definitions of criminal liability for corporations, as well as the ability to hold them accountable. To ensure the well-being of society, the well-being of citizens and economic growth of a nation are all tied to a business climate that is free of regulation for corporations. A careful balancing act must be struck here between taking strong action against corporate criminals and protecting the legitimate activities of corporations. This article will examine the law governing corporate criminal liability in India.

**Keywords:** Corporate crime, Criminal Justice System, Natural person, Corporate criminal liability, Strict liability, Social wellbeing.

**Introduction:**

Crime and criminality, particularly socio-economic crimes, pose a severe threat to the state and the population and must be dealt with effectively. Corporate crime is an increasingly serious threat to modern society's well-being, a specific type of socioeconomic crime committed by corporations [1]. Due to the increased organisation of corporations and the appointment of experts and professionals, it is becoming increasingly difficult to identify and detect illicit activity. In the criminal justice system, it has long been held that only natural beings can commit



**India's Young People and Criminal Behavior****Vikas Sharma<sup>1</sup>, Neeraj Prakash Rai and Nimisha Sinha<sup>2</sup>**<sup>1</sup>Institute of Legal Studies and Research, Mangalayatan University, Aligarh, UP<sup>2</sup>Faculty of Law, Usha Martin University, Ranchi, Jharkhand

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**Abstract:**In any country, adolescent delinquency is a serious transgression that impedes social progress. Around the world, the number of teenage crimes is on the rise, with the young playing an increasingly larger role in vicious crimes. Adolescents in India are committing more and more heinous crimes at an ever-increasing rate. It's a major source of concern for the country, therefore finding solutions is something that should be approached with caution. As a response to these trends, India's general set of laws as well as its legal executive has made several changes to teenage equity in India. This paper aims to examine the causes of adolescent misconduct and the explanations given by researchers from many professions to better understand the issue. Teenagers' involvement in horrific crimes is increasing as evidenced by the study of information that is readily available at actual crime scenes. The Act on Juvenile Delinquency in India has been amended to treat juveniles who commit heinous wrongdoing as adults in order to address the problem of adolescent misconduct.

**Keywords:**Juvenile, Investigation, Information, Justice, Mental health, System, suicide, youth, India.

**Introduction:**

When it came to adolescent instances before 1850, there was no such law in place. In 1850, the first enactment of a form of Apprentice Act was issued, which established the provisions for preparing convicted juveniles for professional employment. Indian Penal Code, 1860 was passed soon after, which gave an entire resistance to the child under the age of 7 from criminal risk under section 82, while section 83 grants partial invulnerability to children between the ages of 7 and 12. Under this law, everyone older than 12 was considered an adult. A potential negative outcome of confining these young people in an institution for adults existed [1]. Because of this,

**A Study on the Evolution of British Banking Law****Vikas Sharma<sup>1</sup>, Aishwarya Sharma<sup>1</sup> and Animesh Rishi<sup>2</sup>**<sup>1</sup>Institute of Legal Studies and Research, Mangalayatan University, Aligarh, UP<sup>2</sup>Faculty of Law, Usha Martin University, Ranchi, Jharkhand

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**Abstract:** Since its inception in the late 18th century, the Indian banking business has seen numerous transformations. Most of India's early banks were largely traders' banks, which only provided short-term loans to local merchants. The Imperial Bank of India as well as the State Bank of India were the two most important banking institutions in pre-independent India. Majority private ownership was prevalent in the early days of the sector, which had an extremely turbulent work climate. When India's banks were nationalised in 1969 and 1980, they ushered in a new era of public ownership and responsibility. There has been considerable movement in the sector toward greater liberalisation as it has come to understand the importance for private and international firms in a competitive setting.

**Keywords:** Banking, Investment, Industry, Demand, Supply, Business, Banking Regulation Act.

**Introduction:**

Banking as we know it now has been around for a long time. The French term "bancus" or "banaue" as well as the Italian word "banca," both meaning bench, are the ancestors of the English word "bank." In Lombardy, a northern Italian region, Jewish money changers used to conduct business on market benches. It appears that this term has been in use since then. People smashed up the bank after the banker went bust [1]. When the Germans ruled a large part of Italy, the Italians renamed the German word "back" to "banco" to refer to a joint stock fund, according to some historical accounts. Banks were established by the Babylonians as far back as 2000 BC. Depositing their money and treasures with the gods was a sign of faith in the gods. Ephesus and Delphi, two of Greece's most revered temples, wielded considerable financial clout. To keep their treasures safe, the temple priests threatened the people with the loss of their cash and other valuables if they didn't deposit them with the temples. Despite the fact that the ancient world, including the Hebrews, supported the institution of money lenders and made no slur of interest, but they hated only usury, the Romans as well as Mohammedans considered charging



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# An Overview Of India's Cybercrime And Cyberlaws

Ali Akhtar<sup>1</sup> , Ashutosh Singh<sup>1</sup> and Animesh Rishi<sup>2</sup>

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**Abstract:** As is common knowledge, we live in an age where nearly everything is done online, from everyday shopping to major financial transactions. From any location, anyone can use the internet's resources because it is considered a global stage by many. There are a few persons that use the internet technology for illegal purposes, such as gaining unauthorised access to another's network or perpetrating hoaxes. The phrase cyber crime refers to these criminal behaviours or offences related to the internet. "Cyber Law" is a concept coined to deter and/or punish online crimes. We can refer to cyber law as the component of the legal system that deals with Internet, cyberspace, and legal difficulties. It encompasses a wide range of themes, including freedom of expression, Internet access and use, and online security or privacy. It is referred to as the web's law.

**Key Words:** Information Technology, Internet, Cyber-crime, Cyberspace, Cyber law, , Punish, Cyber Law & IT Law.

## Introduction:

The government of the relevant country and state has established a legislation that allows for computer and cyber crimes. Crime and other offensive conduct such as computer and mobile crime, as well as IT crime can all be classified as Cyber Crime. Cyber Law is a set of rules and procedures that can be applied to a wide range of electronic crimes and offences [1]. Many individuals are still unaware about Cyber Crime and how to prevent it. The Government or constitutional entity or division of the concerned country or territory has essentially approved of the country's or territory's Cyber Law [2]. The number of instances is increasing daily, and the scope of Cyber Crime is expanding at an accelerating rate. As a general rule, cyber law comprises all laws relating to cybercrime, electronic crime, electronic signature & intellectual property crime, data security, information assurance, and so on. There are various approaches to reduce cybercrime and cyber-related issues, which are briefly discussed in this paper. People aren't aware of the dangers of cybercrime, thus they don't take many safeguards [3].



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# Effectiveness Of Performance Management Systems In The Indian Construction Sector

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**Manisha** Faculty of Business Management & Commerce, Usha Martin University, Ranchi, Jharkhand

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## Abstract

The purpose of this exploratory research is to better understand how performance management systems work in the Indian construction industry<sup>1</sup>. The research sample included 138 workers from three major Indian construction companies. To further understand the characteristics that led to the success of PMS in Indian construction enterprises, researchers used factor analysis and the chi-square test. The findings demonstrated that participants had a good grasp of PMS systems and how they interacted with HR subsystems (Training & Development and Pay & Rewards). 'Understanding appraisee standpoint, impartiality in evaluation, and frequent review' were three of the study's major worry areas. Recommendations have been made to increase the efficiency of PMS in Indian construction firms.

**Keywords:** construction, feedback, Indian, PMS, performance.

## Introduction

Throughout the past several decades, India's construction industry has risen tremendously and has been recognised critical to the country's economic and social progress. The construction industry is expected to increase between 8 and 10 percent annually, making it the second-largest behind agriculture. According to Doloi, Iyer, and Rentala (2012), this industry has grown rapidly in the last five years, creating 31.46 million jobs (2008-2009) and having the potential to create an additional 2.5 million jobs in the coming years. However, the industry's high level of sophistication, inconsistent performance, inconsistent quality, and dearth of talented workers remain major concerns for the industry. In terms of work performance in this area, India has the worst schedule overrun (55%).



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## A Critical Study On Management Of Health And Disaster Risk In India

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**Abstract:** Rapid urbanisation has been occurring in India. Health, well-being and infrastructure capacity are all in a state of flux. This study provides an overview of India's health capacity to manage disaster risks from the perspective of a rapidly urbanising nation. It examines India's demographic, epidemiological, and developmental shifts, as well as the ramifications for healthcare policy. Health outcomes can be improved or harmed during catastrophes and other periods when relevant experiences and current healthcare provisioning are studied.

**Keywords:** Disaster Resilience, Disaster risk reduction, Public health, Developmental risk, Hospital safety.

### **Introduction:**

The state of a country's health is an essential measure of its progress. The country's level of development can gauge a disaster's effect on health. Having a well-equipped health care system is essential to a successful reaction and long-term healing. This information is highly relevant for India, a disaster-prone country with a limited supply of resources and a large density of people. Both the health infrastructure and the health outcomes are affected by these elements.

First and foremost, disasters in India have had costly economic effects on the country's health system [1]. The Indian Ocean Tsunami (2004) caused \$30 million in damage to health facilities, which necessitated extensive repair efforts. When a 281-bed public hospital collapsed in the 2001 Bhuj earthquake, one hundred seventy-two people were killed. Also recognised is that a region's economy suffers when health care systems collapse at a large scale. The government is responsible for the majority of the costs associated with the deterioration of the healthcare system and the resulting decline in health. Because of this, health infrastructure must be designed so that it can adapt effectively to natural disasters.



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## Evidence From A Developing Economy On The Effectiveness Of Working Capital And Quality Management Systems

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**Abstract:** Argentine manufacturing enterprises' profitability will be examined in this paper utilising the literature's primary theoretical framework for investigating the impact of working capital management. In industrialised economies, this issue has been studied extensively, but this issue has received scant attention in emerging economies. A stratified selection method was used to choose the companies to be studied based on an economic criterion. The information was gathered through a questionnaire and spans three years. We employed a fixed effects regression model to meet our study objectives, which showed accuracy in explaining the impact of working capital management on profitability. ' As a result of the findings, it can be deduced that an increase in any one of the variables examined leads to a rise in ROA and ROE. On the other hand, there is a statistically significant negative correlation between leverage and profitability when it comes to profitability.

**Keywords:** Economy, Working Capital Management, SMEs, Profitability, Leverage, Emerging Economy.

### Introduction:

Working capital management (WCM) is critical to a company's financial performance since it serves as the link between profitability and liquidity [1]. As a result, companies must constantly evaluate the relationships between assets and short-term liabilities to ensure the company's survival and expansion while minimising the risk of financial difficulty.

Managing working capital is even more critical in developing and emerging markets, where the volatile conditions of the financial markets and the uncertainties associated with the economic situation cause extreme turbulence and general price volatility [2]. In light of the current economic situation in Argentina, small and medium-sized enterprises (SMEs) face significant difficulty in gaining access to the credit market, which is heavily reliant on the banking system, as well as in obtaining the financing they require to expand their operations. These issues are magnified even further in the manufacturing sector, where enterprises have a greater need for capital than in other industries [3]. According to academic research,



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# Human Rights In India – After 50 Years Of India’s Independence

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## ABSTRACT

The 50th anniversary of India's independence was celebrated on August 15, 1997. 1 It's a historic day not only for Indians, but for the rest of the globe, too. There may be no better indicator of global stability than India's democratic success and the strengthening of its foundations in Asia, the second most populous country in the world. Indians should be proud of their 50 years as a thriving, democratic, and secular nation with hundreds of millions of people representing an array of socioeconomic, religious, and ethnic groups. This is a major accomplishment for the country. But how well have they been developed?

**Keywords:** Independence, 50th anniversary, human rights violations, The Indian Constitution's, Article 21

## INTRODUCTION

This event has been both motivating and contemplative at the same time. An chance to stop and assess India's half-century of experience in advancing human rights among her own inhabitants is provided by the country's 50th anniversary. Even though India has gone a great way since 1947, it would be dishonest not to acknowledge the number of serious mistakes that have marred the previous five decades. It's critical that we figure out what went wrong and why, so that we can avoid making the same mistakes again in the future. Those who are denied essential rights may suffer as a result of the inability to do so "Blow up the political democracy put up by the founding fathers after so much effort 2.

John Hart is a well-known figure in the That "constitutional law appropriately exists for those situations where the representative government cannot be trusted" is proof of the vital function of judges in defending human rights, according to Ely's statement. 3 Particularly in India, where the Supreme Court has been given wide-ranging powers and the obligation of preserving people' human rights, this is especially true. 4 The Court's substantial and contentious influence in Indian politics may be traced back to this. In spite of its many economic triumphs, India is nevertheless afflicted by widespread issues such as poverty, illiteracy, lack of access to health care facilities, environmental degradation and exploitation, and other serious injustices. As a result, judicial protection of human



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# Human Rights In Constitution Of India

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**Abstract:** As a 'member of the human family,' each person is entitled to a minimum set of rights against the State or other public authority, regardless of any other reason. "Human rights" is a term that has only been used recently, in the wake of post-World War II international charters and conventions, but the notion goes back to the ancient theory of "natural rights," based on natural law. Natural rights were the appropriate starting point for the development of the notion of "human rights." Natural rights were the first expressions of human rights in law and morality.

**Keywords:** Human Family, Rights, Post-World War II, Charters, Persecution

## Introduction

As part of his intrinsic essence, a person's natural rights were derived from his or her inherent nature. What this implies is that there are moral rules inherent in the nature of the cosmos that may be discerned by a rational being.

There are a slew of competing views regarding what natural rights are and how they should be defined, all of which lead to the conclusion that every person has certain rights that the rest of society must acknowledge as human rights. This notion of human rights is an updated version of the old 18th century concept of the right of man. Human rights are a relatively new concept, having emerged after the conclusion of World War II. There was a great deal of anxiety about how the war's conclusion would affect mankind, and so there have been significant advancements in issues related to human rights as a result.

In 1948, the United Nations General Assembly approved the Universal Declaration of Human Rights (UDHR), which led to the creation of a vast number of international human rights documents and covenants. UN Charter of 1945: The founding document of the United Nations. Universal Declaration of Human Rights of 1948. Civil and political rights, as well as economic, social, and cultural rights, are included in the 1966 International Covenants. In 1953, the European Convention on Human Rights was signed.

## HUMAN RIGHTS ARE CHANGING IN NATURE

the protection of human rights is fundamental if man is not to turn as a last option to revolt against tyranny and persecution," reads the preamble to the Universal Declaration of Human Rights. Human rights may not have been a notion in primordial society. Natural



## Child Labour in India: A Conceptual and Descriptive Study

Turkish Online Journal of Qualitative Inquiry (TOJQI)

Volume 12, Issue 1, January 2021: 396-403

### **Child Labour in India: A Conceptual and Descriptive Study**

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#### **ABSTRACT**

The issue of child labor is a major concern in India, as early entry into the labor stage of life means shunning away from proper schooling leading to loss of better livelihood. Child labor is a complex problem whose mother is basic entire nation suffers the fatal consequences of this curse of society. Child labor in India as child labor engaged in various types of work, most of which Child labor in the U.S. is engaged in traditional agriculture, followed by manufacturing, repair, and in factories. Nowadays a large number of people in urban areas are domestic workers. In which the work of children is completely unregulated, they live like food, and very low wages, conditions of slavery, in addition to those there is also physical abuse, sexual and emotional abuse. For domestic workers families have kept their children in their homes for care and employment. Elimination is a priority and is being implemented at the grassroots level. A large number of government and voluntary organizations are involved in this process along with national organizations. In this paper we intend to give the scenario in which child labor has various challenges arising due to this particular problem have also been discussed. Necessary efforts are proposed to overcome these problems. In this, the effect

## Covid-19: Impact on Society

Turkish Online Journal of Qualitative Inquiry (TOJQI)  
Volume 12, Issue 1, January 2021: 413-418

### **Covid-19: Impact on Society**

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#### **ABSTRACT**

The whole world has suffered from several pandemic situations since more than 1720 to 2020. While thousands of people die, civilizations end, economy collapses, and societies often become difficult to contain, posing a major challenge to the ruling global powers. 1720 - Plague, 1820 - Cholera outbreak, 1920 - Spanish flu, 2020 - COVID-19. What's happening? There is a theory that every 100 years, a pandemic happens. Nothing seems strange, but the accuracy with which these events take place is remarkable. The Novel CoronaVirus pandemic started as a simple outbreak in December 2019 in Wuhan, China, and it has now become a global threat. No country has remained untouched. The Corona virus that originated from the city of Wuhan in China, it has taken the form of an epidemic all over the world. And it is changing itself day by day. This virus is causing great damage to the fabric of the society. In our country, lakhs of people have lost their lives, industries have been ruined, lakhs of people have lost their jobs, the economy has collapsed, and there is a crisis has arisen in front of lakhs of families.

In this paper, various types of effects of corona virus on the society have been discussed. It has affected all the sectors of the society and many problems have arisen, especially on girl child education, the destruction of industries, the loss of jobs, the increase in inequality in society, in the field of health, psychological effects, etc. The



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## Legal Framework Of Domestic Violence Among Women

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### ABSTRACT

In India, women are the victims of domestic abuse, which is well-known and all too common. To put it another way, gender norms and ideals that place women below males are considered to be the root cause of domestic violence against women. According to the findings of this study, there is a high rate of domestic abuse among Indian women. The prevalence of domestic violence was determined by preparing an interview schedule. In order to get a satisfactory answer, 50 ladies of good fortune were surveyed. The study found that spouses' drunkenness is a major factor in domestic violence. The study found that domestic abuse is still prevalent in Indian society, and women's awareness of domestic violence legislation and organizations is low. Research shows that spouses' drunkenness is an important factor in domestic violence against women.

**KEYWORDS:** domestic violence, women, gender discrimination, gender Sensitization

### INTRODUCTION

Throughout human history, regardless of how far apart societies may be in terms of distance and time, one thing has remained constant: a disdain for women. Women are standing and position in Indian society has greatly improved since the Gandhi era and subsequent decades following independence. The equality of the sexes is a fundamental right under India's constitution. Because of this, it is not merely a case of men's advancement over time that led to women's advancement from a position of total degradation to one of equal status in the mid-century period. It has been difficult for women in Indian society to find a place in the mainstream. The current changes in the status of women in India



## Analysis of Evapotranspiration Models for Estimating reference Evapotranspiration in Sub-tropic region

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### ABSTRACT

*This study aimed to assess the Performance of the different evapotranspiration models. The objective was to determine the most accurate model for estimating reference evapotranspiration (ET<sub>0</sub>). Performance Evaluation of all the ET<sub>0</sub> models, on the limited weather data basis is prerequisite for selecting an alternative approach in accordance with available weather data such as maximum air temperature, minimum air temperature, mean relative humidity, solar radiation and wind speed. Therefore, standard recommended, FAO-56 Penman Monteith (FAO56-PM) model locally calibrated FAO-56 P-M model, Hargreaves-Samani (H-S) model, Jensen-Haise (J-H) model, Rohwer and Trabert ET<sub>0</sub> based model, were used to estimate monthly reference evapotranspiration (ET<sub>0</sub>) at Gwalior (Madhya Pradesh), India. Further, the performance of all these ET<sub>0</sub> methods were evaluated, by error analysis between observed ET<sub>0</sub> value using FAO-56 PM model and ET<sub>0</sub> values estimated using all other ET<sub>0</sub> models. The result showed that the Hargreaves-Samani, Rohwer and Trabert model systematically, underestimated ET<sub>0</sub> in all months. Jensen-Haise (J-H) model was found lower value of RMEA, MAE and MAPE (1.056), (0.852), (19.299). Trabert model, with highest value of R<sup>2</sup> (0.980) RMEA (4.326), MAE (4.183) and MAPE (80.596) and H-S model with lower value of R<sup>2</sup> (0.820). J-H model best performed on the basis of RMSE. Based on overall results it was concluded that the ET<sub>0</sub> based model provides average monthly accurate estimate of reference evapotranspiration compared to other models.*

**Key words:** Reference evapotranspiration, Sub-tropic, Madhya Pradesh

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### INTRODUCTION

Reference evapotranspiration is play significant role in irrigation scheduling, water resource management, and hydrology, water balance models. The of Food and Agricultural, Organization of the United Nations [10] [4] proposed a methodology for computing, crop coefficient ( $K_c$ ) and crop evapotranspiration ( $ET_c$ ). These coefficients [2] depend on several factors including stage of crop growth, canopy height density and crop type. To irrigation schedule properly, an accurate and standard method by several authors [3], [8] and [1] to estimate  $ET_0$  to predict, crop water requirements was stated. A great number of different models were developed [5] to estimate  $ET_0$  for use in environments that lack direct  $ET_0$  measurements. A major problem in  $ET_0$  estimation, using these models is the requirement for meteorological, weather data that may not be easily available. This restriction at times prohibits use of more accurate models, and necessitates, the use of models that have less demanding data requirements.

An international scientific community (ISC) has accepted the FAO56, Penman-Monteith (FAO56PM) model, the most precise one for its good results when compared with other models in various, regions of the entire world [5], [9] and [10]. Estimation of reference evapotranspiration ( $ET_0$ ) by globally accepted FAO-56 Penman Monteith [2] requires, the all metrological parameters like maximum and minimum temperature, wind speed, relative humidity and solar radiation,. However, for many locations, as is the case Madhya Pradesh, such meteorological variables are often incomplete and/ or not available. The proposed methodology uses temperature data for estimating the other climate parameter required by the standardized FAO-56, Penman Monteith. The procedure has been applied around the world for estimating  $ET_0$  from limited weather data billability the studies using the FAO missing data estimation procedure done in north china environment [6], [8] and [7]. The procedure has been, reported with good alternative for

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## Application of Agile Project Management Methodology in Construction Industry

Dr. Mahesh Kumar, Dr. Jagesh Kumar Ranjan

Keywords: **Project, Management, Agile, Construction, Methodologies**

### ABSTRACT

Project management is today a present and hugely discussed area. Tasks to the construction business are managed hasn't changed considerably throughout the final years. The construction business, the number of the way and different actors that tasks are procured nowadays has however changed. Utilizing agile methodologies have many benefits with the classical techniques employed in project management in construction projects. Nevertheless, their qualities make them acceptable to be put on to tasks in the areas. Fundamental improvements have been made to the construction of projects, Planning and delivery. This has taken shape with the addition of modern methods, such as various Agile project management methodologies for producing products instead of using conventional approaches The waterfall project management approach is widely used today. Usage has become very agile.

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## Cost-Aware Trust Model through Multimedia Stream Optimization for Energy-Efficient Manet

Mr. Waseem Ahmad Khan, Dr. Lokesh Kumar

### ABSTRACT

The Mobile ad-hoc network (MANET), also known as Ad-hoc network (MANET), is a collection of mobile wireless devices, routing packets without any infrastructure, communicating with each other. Without any infrastructure, mobile devices are responsible for routing packets amongst themselves. Some of the useful areas of ad hoc networks are combat and natural disasters. MANETs can also be useful for remote and rural areas where there is no communication or infrastructure. Recent network technological developments have placed the wireless network as a key role in data communication systems.

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## Load-Balanced Task Allocation for Improved Lifetimes in Mobile Crowdsensing

Dr. Mahesh Kumar, Dr. Asim Ahmad

### ABSTRACT

We performed an in-depth research investigated the effects of restricted battery life on participants because it continues to be a key source of user concern. It is possible to estimate the battery depletion rates of mobile devices based on their battery consumption patterns that have been recorded over a long period of time, such as numerous charging cycles at night or frequent battery depletion during the day, based on their battery usage patterns. We use clustering algorithms to examine 411 battery consumption traces acquired from a real-world dataset in order to discover commonalities in battery usage patterns and depletion rates. We demonstrate, via the use of time-series analysis, that differing battery consumption patterns have an impact on the performance of work allocation algorithms. Other aspects relating to battery use (e.g., charging/discharging rates) and the performance of work allocation algorithms in MCS systems are discussed in broad terms.

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## An Evaluation on Cluster based Hybrid Intrusion Detection System with Fault Tolerance

Dr. Javed Wasim, Ms. Naghma Khatoon

Keywords: **Distributed, Intrusion, Detection, Agent, Layer, Replication**

### ABSTRACT

The goal of an intrusion detection system is to identify intruders in a computer system or a network by analyzing the traffic. Dangers and hostile intrusions are rising in tandem with the widespread use of advanced computer devices in nearly every area of daily life, as are the risks associated with them. The proposed architecture is made out of three layers: Layer 1 consists of host agent and net agent. Layer 2 has the mobile agent and Layer 3 contains the decision making and replication agents. The layers in the system are arranged into network and mobile agent layers, and they send messages to the system administrator utilizing a decision making agent. They are further arranged into replication agent and profile database. The decision making agent triggers the 6 messages, for example, REQUEST, REPLY, CANCEL and ACK because of the execution of applications. The replication agent generates the control messages including CALL and REPORT because of the execution of the intrusion detection procedure.

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## Investigating Customer's Adaptability and Awareness Process towards Internet Banking

Dr. Anurag Shakya, Dr. Anupama Verma

Keywords: **Consumer, Banking, Internet, Awareness, Adaptability.**

### ABSTRACT

Customers have gotten savvier in recent years, and they are more interested in conducting financial transactions with a single click while remaining at home. In today's world, Internet Banking has provided customers with a handy and flexible platform. The report focuses on their awareness of internet banking and the length of time they have used it. This research aims to investigate the customer adaptability building process as well as the associated banking management. Examining strategies to improve consumer adaptability in an electronic banking customer can make a significant difference in client management and business growth.

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## DESCRIPTION OF CHILDOOD AND ASLO FEMALE IN CONTEMPORARY CINEMA OF INDIA

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\*Mangalayatan University, Aligarh, (Uttar Pradesh)

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### ABSTRACT

*Having established itself as the prime locus of popular culture, Indian cinema as an academic discipline has grown in tandem, especially through the last two decades. The preliminary motive of this dissertation emerged with the recognition that little has been said and written about a particular segment of Indian cinema—children’s cinema in India. In order to comprehend a vast subject such as children and films within the Indian context, this thesis looked at the various perspectives that a subject like this brings to the mind. Perspectives such as that of definition, genre, audience, content and themes. Through an extensive survey of literature on the definitional aspects of a category such as children’s cinema one finds how it includes films that are exclusively aimed at child audiences while it also includes films that deal with aspects about children and childhood that bring the adult and the child together in a more intimate way. In other words, children’s cinema is a much-debated subject, a fluid concept with changing meaning based on the context, content, and audience.*

**KEYWORDS:** culture, Audience, Theme, Cinema, Film.

### I. INTRODUCTION

A plethora of scholarship on Indian cinema has been published in both academic journals and popular media, and it has covered a wide range of topics related to this segment of Indian culture. There are a variety of topics covered in these Indian film studies, including socio-historical transformation, fan culture and fame, industry dynamics, Bollywood, and a variety of other topics. However, in this vast field of research, there has been relatively little spoken or published about the subject of children's films and about childhood in India, despite the importance of these topics. The creation of childhood in modern Indian film is the subject of this research dissertation. There is a strong emphasis on the role of children in films, as well as the numerous issues that they symbolize within the cinematic imagination of modern Indian cinema. Nonetheless, when it comes to a wide subject such as children and cinema, there are several viewpoints and elements that must be considered and explained before one can begin to specialize in a specific field of study within the subject area in question. Approaching this subject from the perspective of various commentators writing about children's cinema is a good way to start the conversation. When one begins to investigate the history of the link between children and cinema, one learns that this relationship dates back to the very beginning of the invention of film itself. One is transported back to the 1890s, to the pioneering work of the Lumière Brothers, when the first pictures of a

# ANALYSING THE BASIC PSYCHOLOGY OF AN INVESTOR TOWARDS STOCK

Dr. Nisha Khan, Dr. Jayantika Pal • Published 2021 • Psychology, Business

The current research is necessary at this point in time. Finance is regarded as an organization's lifeblood. Prudent investing is a key aspect of financial security. Individuals are continuously looking for investment options that will provide them with the highest and fastest returns. It is a well-known truth that greater profits are coupled by greater risk. Investing in the stock market is one such option, which offers faster returns at a higher risk. As a result, the current study is a little attempt to comprehend an investor's basic psychology toward the stock market, as well as other aspects and factors associated to it. [Collapse](#)

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# Performance Analysis of M/M/1 Queuing Model

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**Abstract**–The poisson queuing model indicates the distribution of interval arrival times is exponentially distributed based on the First-come-First-serve (FCFS) and analyze the various probability generating function. Finally, the steady state solution for better performance and uses for queuing model on the basis of Kendall's notation.

**Keywords** –M/M/1 queuing model, Markovian process, Laplace transform, Poisson distribution and Probability generating function

## 1. INTRODUCTION

Queuing theory originated when a Danish mathematician A.K. Erlang published a paper "The theory of probabilities and telephone conversations" on the study of traffic. His studies are now classics in queuing theory. Until about 1940 the branch of applied probability was directed by the needs encountered in the design of telephone exchanges[1]. Generally, a queuing system is characterized by the following factors:

- (i) The input process
- (ii) The queue discipline
- (iii) The service mechanism

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In queuing system, we will discuss two common concepts:

**Utilization factor** - Utilization plays the crucial role and is defined as the proportion of resources which is used by the traffic which arrives at it. It should be strictly less than 1 to function well. It is usually denoted by the symbol  $\rho$ .

## Effect of Time Dependent Stenosis on Blood Flow through an Arterial Segment

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**Abstract:** The present study deals with the influence of time dependent stenosis on blood flow through an arterial segment. The problem is investigated using analytical and numerical techniques. The expressions of wall shear stress, axial velocity and volumetric flow rate are obtained. The graphical representation is made to validate the analytical findings with a view of its applicability to clinical practice. It is noticed that the resistance to flow and wall shear stress increases with the stenosis.

**Keywords:** Wall shear stress, slip velocity, resistance to flow, time dependent stenosis, volumetric flow rate.

### INTRODUCTION

Circulatory disorders are well known to be reasonable in most cases of disease. In such case. Stenosis means narrowing of an artery, tube or orifice. It is caused by an unnatural growth in arterial wall thickness. The initial thickening is commonly understood as an early process in the beginning of atherosclerosis. Atherosclerosis is a disease which affects arteries by a sub-endothelial build-up of fatty deposits and cholesterol. This disease hardens the vessel walls and narrows their lumen, thus reducing blood flow to various parts of the body. The presence of stenosis in the vessel

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## Gun Island: Fusion Of Realism And Surrealism

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**Abstract-**Gun Island is a tribute to all environmentalists and the motif of this book has major influence from the previous novel The Hurricane. The same characters which were present in his previous novel The Hurricane are present in this novel and in this sense Gun Island is the continuation of The Hurricane. Gun Island is a new literary form, a new attempt to look at history from a new point of view of a new direction. It is a surreal novel about climate change and environmentalism.

**Keywords-**Realism, Surrealism, Environment, Climate change, refugees

Surreal novels are a beautiful blend of facts and fantasies. Ghosh has placed more stress on the theme and technique to induce a foreign language with Indian elements as well. We can refer English as Indian to some extent, but Indian is not a foreign language certainly, but authors like Salman Rushdie, V. S. Naipaul, Amitav Ghosh etc. have contributed enough to make it an Indian novel to some extent. The narrator lives in world of surrealist beliefs. He is mystified by the events of his life and ethereal incidents. The author has created an Indian world with the issues and characters of real world in this novel. The author has attempted to create a new genre and a new theme of nature conservation with a



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# Elizabethan And Early Stuart Drama

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## Abstract:

Drama is a performing art which is performed on the stage with the help of actors and actresses. In the Elizabethan and early Stuart period, drama was the most important form of art. It described the life style and the way of the living of the people. It was a mirror of the Elizabethan society. Moreover, the drama was very popular in the Elizabethan period. But the theatre going was very expensive so the common people could not afford to go to the theatre. But, realizing this issue, later on the theatre was established for the common people and gradually the Elizabethan drama became accessible to the common people of the society. In this paper, we discuss the development as well as the characteristics of the Elizabethan and early Stuart drama.

**Keywords:** Actors, Drama, Elizabethan, Stage, Stuart.

## Introduction:

In the Elizabethan and early Stuart period, the theatre was the focal point of the society. It was a mirror of the Elizabethan society. Moreover, the drama was very popular in the Elizabethan period. But the theatre going was very expensive so the common people could not afford to go to the theatre. But, realizing this issue, later on the theatre was established for the common people and gradually the Elizabethan drama became accessible to the common people of the society. In this paper, we discuss the development as well as the characteristics of the Elizabethan and early Stuart drama.



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## Major Themes In Harold Pinter's Play, The Home Coming

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### Abstract:

The Homecoming is a two-act play written in 1964 by Harold Pinter in 1965. After having lived in the United States for several years, Teddy returns home for the first time to meet his working-class family in North London, and which she finds more familiar than their arid academic life she married in London before moving to the United States. Much sexual teasing teases Teddy's brothers and father and the men taunt one another about their upmanship, resulting in Ruth's staying behind with Teddy's relatives and Teddy returning home to their three sons in America without her.

Pinter's plays are ambivalent in their plots, presentation of characters, and they are works of undeniable power and originality. The Homecoming is the story of a man returning to his London home of a university professor who brings his wife to meet his father. The woman's presence exposes a tangle of rage and confusion in the male household, but in the end she decides to stay with the father and having accepted their sexual overtures without protest from her over the years. In this paper we propose to trace the various major themes of the play.





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## Philosophy And Divinity: A Study Of Vision Of Ideas In Tagore's Gitanjali

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### Abstract

Rabindranath Tagore, a famous Indian novel laureate. He was one of the greatest dramatist, novelist and story writers of twentieth century. Tagore is a celebrated author of worldly significance. The writings of Tagore's works have a deep much influenced by the Indian culture of Divinity. His poetry also deals with the essence of ancient religious books that are the description of divinity and many other sacred sources. Tagore's Gitanjali is steeped in deep sense of humanism. Undoubtedly the Gitanjali is a didactic poem of humanity that shows the appeal to humanity and has imbibed a good deal of sense and sacred ideas with a vision to refine the human honesty and truth which is the exclusive feature of Tagore's poetry. In his human is considered as a part of soul that has come to humanity with God.

**Keywords:** Divinity, Philosophy, Humanism, Didactic, Essence

**Introduction:** Rabindra Nath Tagore, as we acquaint with the name, he is not only a poet but also a novelist, a short story writer, a dramatist, a painter, a m

## Women Rights in India: Legal Norms and Practices

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### ABSTRACT

Women are the cradle of any culture. Today in the era of globalization, the focal agenda of all countries is the socio-economic and political development of women. In our Constitution of India, there are many essential safeguards and also positive discriminations provided to women for empowering them. Besides these constitutional provisions, the government of India is relentlessly attempting effective actions for the betterment of women. This paper adheres to explore the legal norms and actual practices in India. In dealing with these norms and practices, an in-depth study of literature shows that despite many laws, the reality is very much different. Still, women are facing discrimination and injustice. The factor includes social and cultural attitudes, behaviour, and discriminating practices of society. Presently, data shows that there is still an alarming rise in the violation of women's rights. The laws are lax in their proper implementation.

This paper is purely based on secondary sources. It concludes that proper implementation of the laws has become an urgent need of the hour for the protection of women in society. Still, a lot is to be done to bring these provisions of legislation into action. Inadequate policing and judicial practices deny female victims getting proper justice. India has a long way to go to make Indian women equal citizens in their own country.

**Keywords:** *Constitution, discrimination, India, women, women's human rights.*

### INTRODUCTION

Women's rights were until recently something of a stepchild in the field of human rights (Donnelly: 2005). Among all human beings, the most fundamental tool of women's concerns recognized as their equal status in society. All girls and women are entitled to claim to realize all women's rights. They are also the possessor of all civil, political, social, economic, and cultural rights on the same basis as men without any discrimination of sex and gender terms. The world has recognized the rights of women as an inalienable, integral, and indivisible part of universal human rights. The system of solidification of women's rights can be traced principally with the shifting of the international consciousness of women's issues which gyrated around the title of 'International Women's Year 1975' and an accompanying first world Conference on women in Mexico City held in the same year. On the one hand, the follow-up conferences in Nairobi and Beijing, respectively, held in 1985 and 1995, had further given impetus to solidify and spread this global consensus. On the other hand, the Convention on the Elimination of all kinds of Discrimination against Women (CEDAW) was adopted by the U.N. General Assembly in 1979 to provide all women of the world a comprehensive list of rights which is also known as 'International Bill of Women's Rights.' It came into enforcement on 3<sup>rd</sup> September 1981.

India is one of the significant countries that imperatively signed as well as ratified the CEDAW on 9<sup>th</sup> July 1993. The Convention has two main objectives one is to prohibit discrimination (Article 2), and the second is to ensure equality (Article 4). India had also ratified various international conventions and human rights instruments committing to secure equal rights of women, i.e., Universal Declaration on Human Rights (UDHR), International Convention on Civil and Political Rights (ICCPR), International Convention on Economic, Social, and Cultural Rights (ICESCR). Moreover, the principle of equality of 'sex' is enshrined in the Constitution of India in the Preamble, the Fundamental Rights, the Directive Principles of State Policy and Fundamental Duties. The Constitution grants unequivocally the equality to women and empowers the state to adopt efficacious

**An Inquiry into Impact of Television messages on Behavioral practices with People Living with HIV/AIDS (PLHAs)**

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**Abstract:**

Human Immuno-deficiency Virus / Acquired Immuno-deficiency Syndrome (HIV/AIDS) is primarily related to human's attitude and behavior, and has created severe public health problem all over the world. Therefore, the role of television messages in spreading awareness and knowledge leading to attitudinal and behavioral changes needs to be inquired. The objective of this research study is to investigate attitude and behavior of the people who are directly or indirectly associated and affected by the disease and the impact of television messages thereof. Three target groups chosen for this study are - People Living with HIV/AIDS (PLHAs) and their family members; community members where PLHAs reside and health staff dealing with PLHAs. With these objectives, three Focus Group Discussions (FGDs) have been conducted. This study finds that television is an effective medium for creating awareness, informing and educating people about HIV/AIDS and also for increasing acceptability of PLHAs and their family members in society. People are adopting preventive behavior after watching television programs pertaining to prevalence and prevention of HIV/AIDS. The study also reveals that some myth & misconceptions, discriminating behavior regarding HIV/AIDS did exist in society even today. The study concludes that attitude and behavior of masses against PLHAs and their family members has changed to some extent but the PLHAs are still facing stigma and discrimination in some form or other.

**Key words:** Health Communication; People Living with HIV/AIDS; Stigma and discrimination; Television messages; HIV/AIDS Communication



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## **Social Stock Exchange-An Innovative Fund-Raising Technique To Boost Social Development In India**

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### **ABSTRACT**

While presenting the budget for the financial year 2019-20 the Hon'ble Finance Minister proposed the idea of creating "Social Stock Exchange" (SSE) in India. the SSE is supposed to work in a manner similar to normal stock exchanges like BSE and NSE. Normal stock exchanges allow profit-oriented enterprises to list their securities on the stock exchange in order to invite profit-seeking investors to purchase those securities<sup>1</sup> and thus raise capital for funding their business activities. Similarly, SSE will enable organizations with social cause (social enterprises) to list their securities in order to raise capital from the charitable donors for financing the organizations public welfare activities like promoting education, developing health care facilities, etc. To give shape to the idea of social stock exchange SEBI constituted a working group on SSE in 2019 called "SEBI SSE Working Group" for recommending mechanism for the working of SSE. The Working Group released its report in June 2020. Then in September 2020, SEBI constituted a Technical Group on SSE which took the work of SEBI SSE Working Group ahead and recommended the eligibility criteria for the listing of social enterprise on SSE, the mechanism for listing of social enterprises on SSE, the mechanism for auditing of social enterprises, disclose norms to be followed by social enterprises, etc. The concept of SSE is new in India, and it is still in developing stage. It is yet to come into existence. In this paper the author attempts to study the concept of SSE, its necessity, the mechanism of its working, the regulatory norms, the role of social enterprises, working of SSE in other countries,

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<sup>1</sup>Securities mean company's financial instruments like shares and debentures that can be traded in the market for raising capital by a company



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## **“Women Rights & Children Rights: A Step Towards A Re-Vision Of Human Rights”**

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**Nimisha Sinha** Faculty of Law, Usha Martin University, Ranchi, Jharkhand

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### **Abstract**

**“All human beings are born free and equal in dignity and rights.”<sup>1</sup>**

Human rights are the basic rights and freedoms that every person in the world should have. Everyone has the right to life and liberty, Freedom of expression, Equality before the law, the right to be free from discrimination, the right to participate in culture, the right to education. People with may experience unfair treatment because of factors such as how they look, how they identify, their age or gender, or who they choose to love. In women's rights the gender dimension is an essential element. In the field of children's rights, the generation and age dimension are of great significance. Women's and children's right played an important role in the development of human rights between private entities.

Rights are not luxuries. Although rights cannot be realized, if needs are not met, simply meeting needs is not enough. The problems facing vulnerable women and children have immediate, underlying and structural causes and many have common roots. These could be discrimination in various forms, including gender bias, unsafe environments or chronic poverty.

Through this paper I would like to provide a conceptual framework for understanding human rights. It also offers a brief look at the evolution of the women's and children's rights movements and explains why an emphasis on women in development eventually gave way to a focus on gender equality. Finally, it describes the legal instruments and mechanisms that have been created to protect and promote these rights, foremost among them the Convention on the Elimination of All Forms of Discrimination against Women and the Convention on the Rights of the Child. It shows where the rights of women and children intersect and how both conventions and the committees that monitor them can be successfully employed to safeguard these rights.

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<sup>1</sup>The Universal Declaration of Human Rights,art. 1

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## Study the Strategic Management Contributions to Businesses

Arpit Mohan Srivastava, Ashok Kumar Upadhyay, Anupama Verma

### ABSTRACT

Strategy is a move that chiefs make to accomplish at least one of the association's objectives. Strategy can likewise be characterized as "An overall heading set for the organization and its different parts to accomplish an ideal state later on. Strategy results from the itemized vital arranging process". A strategy is tied in with coordinating organizational exercises and using and allotting the scant assets inside the organizational climate to meet the current destinations. While arranging a strategy it is fundamental to consider that choices are not taken in a vacuum and that any demonstration taken by a firm is probably going to be met by a response from those influenced, contenders, customers, employees or suppliers. Strategy can likewise be characterized as information on the objectives, the vulnerability of occasions and the need to think about the logical or real conduct of others. Strategy is the outline of choices in an association that shows its targets and objectives, decreases the key strategies, and plans for accomplishing these objectives, and characterizes the business the organization is to continue, the sort of economic and human association it needs to be, and the commitment it intends to make to its investors, customers and society on the loose.

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## How Working Capital Management Efficiency Impacts On Profitability Of Maruti Suzuki In India?

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### ABSTRACT

The present paper is an attempt to study that How a working capital management efficiency impacts on profitability of Maruti Suzuki in India? Further purpose of this paper is to examine the relationship between inventory conversion period and Maruti Suzuki's profitability. The dependent variables are Inventory conversion period, Gross profit margin, Return on assets, Net profit margin, and Independent variable is Inventory Turnover Ratio. These variables are used as measure of profitability and the relation between inventory management and profitability. In this research researcher studied on Maruti Suzuki over a period of five years from 2014-2018. This study used correlation to analyze the impact of inventory conversion period over return on assets, gross profit margin, net profit margin and inventory turnover ratio. The result came in this research is that there is a significant relationship between inventory conversion period and profitability.

### INTRODUCTION

We need finance for two purpose long term purpose and short term purpose or we can say that long term investment and short term investment. Long term investment include purchase of plant and machinery, land and building, furniture etc. short term investment include purchase of raw material, payment of wages, and other daily expenses the money invested in these short term expenses is called working capital. Without working capital we can't run our manufacturing units. This working capital is the life blood of our business as blood required in human body to live life same working capital required to carry on daily business activities. This capital is important part of business.

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Efficiency Impacts On Profitability Of Maruti Suzuki In India?**

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## A Study on Effective Economic Eco-Friendly (3E) Fuel in Automobile: CNG

Avatar Singh Kuntal, Shweta, Ashutosh Kumar

### ABSTRACT

In this paper we describe the advantages of CNG over other available conventional fuel. Conventional fuel (petrol and diesel) in automobiles is the cause of pollution and these fuels are costly over the CNG. Transport plays a important role in the development of a nation's economy. Although this sector also accounts for a substantial and growing proportion of air pollution in cities. In addition, the sector contributes significantly to greenhouse gas emissions and is a major consumer of fossils fuels. As per Central Pollution Control Board (CPCB),automobiles contribute the highest amount of hydrocarbon environment as much as 81 % of the suspended particulate Matter (SPM).India's metropolitan cities like Delhi being one of the most polluted cities in the world, has reached frightening proportions with over 3000 metric tons of air pollutants emitted in the national capital every day. Delhi figures in the list of six cities, which hasacute,and savoir air pollution problems and other many have this kind of hazardous inhuman problem. Being the increasing race of the Gasoline/diesel vehicles utilization, and strict standard parameters for feasible emissions controls on petroleum fuel vehicles will not be substantially reduce total emissions cause by this fashionable sector.This study will lead the Effective Economic Eco-friendly (3E) fuel utilization in automobiles as the good option in the form of CNG.



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## Heat Transfer Enhancement using Modified Vortex Generator

Neeraj Gupta, Shweta, Ashutosh Kumar

### ABSTRACT

This paper discusses the heat transfer enhancement using a modified Vortex Generator. Today it is essential to modify the existing systems to enhance their performance, automation; systems are going smaller and smaller, which enhances the economy of a system by reducing the cost of the system. In this way, VGs have been revolutionary in increasing heat transfer and have received significant attention. After literature review, we have observed that various researcher designs and continuous modification VG replace the traditional VG used in the heat exchanger, solar collector, etc. These are effective in heat transfer. These modified VG can serve better performance with reduced form drag and cost. The major application of modified VGs helped delay the flow separation as well as avoiding the stall of the aircraft. Hence this paper encourages the researcher to work in VG; showing major scopes in future research directions.

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## Surface Enhanced Fluorescence Spectroscopy for Trace Hg<sup>2+</sup>Detection in Water

Riya Justine, Ullas Gurudas, Nanda Shakti

### ABSTRACT

6-methoxy-2-naphthaldehyde fluoresces when illuminated with UV radiation that can be used as a mercury sensor. When 6-methoxy-2-naphthaldehyde is masked with 1,3-propane-dithiol, fluorescence property is completely quenched. Interestingly, the dithio mask complexes with Hg<sup>2+</sup> ion, desulphurization reaction is highly favored to yield fluorescence molecule 6-methoxy-2-naphthaldehyde. However, one molecule of sensor require two molecule of Hg<sup>2+</sup> to get cleaved completely and hence the detection limit falls in to 10mM mercury concentration. This detection limit can be improved further by using metal nanoparticle enhanced fluorescence techniques. We have used the surface enhanced fluorescence spectroscopy for improving the detection sensitivity of mercury using 6-methoxy-2-naphthaldehyde as the mercury sensor. The fluorescence spectra of the sample were recorded at various concentrations below 10 mM concentration of Hg<sup>2+</sup>. We were able to detect the concentration of Hg at a level of 7 pM. Such high detection sensitivity suggests that 6-methoxy-2-naphthaldehyde sensor along with metal enhanced fluorescence can be used an efficient method to detect Hg at trace amount levels.

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# INDIVIDUAL IDENTITY AND CIVIL WAR: A PARALLEL STUDY OF MICHAEL ONDAATJE'S ANIL'S GHOST

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**Biography:** Supriya Deogharia is presently pursuing his Ph.D. from Usha Martin University, Ranchi, under the supervision of Dr. Prakash Chandra Panda. The topic of his research is “*Alienation, Migration and Minority- Identity: A Comparative Study of The Works by Rohinton Mistry, Michael Ondaatje and Farrukh Dhondy*”.

## ABSTRACT

This paper unfolds basically the topics mentioned in the title – individual identity in parallel with the Civil War of Sri Lanka. The author vividly gave the account of the traumatic condition that the country had witnessed in the hands of various separatist groups. This paper makes a study of the historical details of Civil War as reflected along with the main plot of the novel. The main focus is on the objective representation by the author who emphasised more and more on the values of peace and human bonding. Besides, in such a situation the identity of a person is always in question. It becomes more critical for a person like Anil who

# KURATOWSKI $\mathcal{I}$ -CONVERGENT DOUBLE SEQUENCES OF A CLOSED SETS ON INTUITIONISTIC FUZZY NORMED SPACE

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## Abstract

Motivated by the notion of Kuratowski convergence of sequences of closed sets in a topological space, we extend the concept of Kuratowski convergence to Kuratowski ideal convergence with respect to intuitionistic fuzzy normed space for a double sequence of closed sets. We also rectify some properties for this new defined double sequence spaces.

**Keywords:** Ideal, Filter, t-norm, t-conorm, double sequences, Intuitionistic fuzzy normed spaces.

## 1 Introduction

Theory of fuzzy sets was studied and introduced by Zadeh [21] in 1965. In recent years, this theory has emerged as the most active area of research in many branches of science and engineering. One of the most important problems in fuzzy topology is to generalize the concept of fuzzy metric space. Park [13] discussed the notion of intuitionistic fuzzy metric spaces which is based both on the idea of IFS which was introduced by Atanasiu and Molese [1]. A concept of a fuzzy metric space by George and Veeramani [6]. The notion of intuitionistic fuzzy norm space [15], certainly there are some situations where the ordinary normed space is not suitable to deal with such situations by modelling the inexactness of the norm in some

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## Postcolonial Literature in the Contemporary Period: Re-Reading Rohinton Mistry's *A Fine Balance*

Supriya Deogharia

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**Abstract:** The term Postcolonial denotes an entire process – the state before colonization, the state of being colonized and the state of de-colonization and its impact. Hence the term Postcolonial gives us the cross-cultural activities as a result of the three stages. The matter is deeply related to the socio-political background of a nation particular and around the globe abroad as the term postcolonial is the integral part of the Third-World concept. The academicians of basically these third world countries tried to search for their past and wanted to assert an egoist view of the supremacy of their own literature or culture. The concept of reinterpreting literature from this canon actually reflects in their search for identity. Language hybridity and the process of marginalization are also felt everywhere. This paper basically interprets the key concepts of Postcolonial traits and besides, there is a close view on Rohinton Mistry's novel *A Fine Balance* from the Postcolonial context.

**Keywords:** cross-culture, hybridity, identity-crisis, subaltern, hegemony, third world, de-colonization

The term Postcolonial is widely popular among the modern intellectuals of the third-world countries regarding race, identity or culture. During the 60s and 70s of the last century the term was widely analyzed and after 80s the term became a topic of study or discussion as the culture study practised by the Left-wing intellectuals was deeply related to this term. Movements like Neo Historicism, Gender Study or Marxist study of society and culture also got entangled with the outcomes of Postcolonial discussion like 'Third world', 'Commonwealth Literature', 'cultural resistance' or 'cultural hegemony'. The term got forceful outputs in the hands of third world scholars like Frantz Fanon, Gayatri Chakravorty Spivak or Homi Bhabha.

Postcolonial study actually denotes the activities after freedom from the colonial bondage. So, the entire thing is related in three parts – the process of colonization, decolonization and then Postcolonization. The political incidents related to this actually had much more impact on the socio-cultural aspects of the colonies and hence terms like race, ethnicity, and other such issues came to the fore-front. Decolonization from the European countries not only gave birth to new ideologies but also led the Post colonized intellectuals to



# Effect of various exercise training interventions on cardiac autonomic function in obese individuals: A systematic review and meta-analysis

Aqsa Mujaddadi <sup>a</sup> , Jamal Ali Moiz <sup>a</sup>  , Zubia Veqar <sup>a</sup> , Javid Ahmad Dar <sup>a</sup> 

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## Highlights

- Obesity is strongly linked with the development of cardiac autonomic dysfunction.
- Exercise training improves markers of cardiac autonomic function in obese individuals.
- Aerobic exercise has large impact on linear and non linear indices of heart rate variability.
- In future, trials focusing on high intensity interval training and resistance training must be conducted.

## Abstract

### Purpose

The aim of the systematic review and meta-analysis was to investigate the effect of various exercise training interventions on cardiac autonomic function (CAF) in obese individuals.

### Methods

We conducted electronic database search from SCOPUS, PubMed, Web of science till August 2021. Among 3234 articles retrieved, 9 were found to be eligible for


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## Abnormality in Mitral Leaflets Mobility Detection Using Deep Learning

Chandra, Vishal; Sarkar, Prattay Guha; Singh, Vinay. **Annals of the Romanian Society for Cell Biology; Arad** Vol. 25, Iss. 1, (2021): 5956-5963.

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#### Full Text

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#### Headnote

Abstract

RHD (Rheumatic heart disease) is still a burden in underdeveloped countries. It affects the heart's wall and valves, mainly the mitral valve. TTE (Transthoracic Echocardiography) is a non-invasive technique used to look inside the heart, including the heart valve and valve's motion. RHD leads Mitral stenosis. Guidelines for assessing the mitral valve based upon the mitral valve's morphology include leaflets' mobility, leaflets' thickness, and sub valvular thickness. Sonographers able to track the mitral leaflets' motion using the M-mode of mitral valve (MV) in the long-axis view. In this research, we used an M-mode echocardiography view for the mitral valve's leaflet's motion. This research used the deep learning technique for detection abnormality in the mitral leaflets' movement automatically. Mitral stenosis restricts the mitral leaflets' motion. Our proposed deep learning (DL) model achieved the testing accuracy of 96% having f1 score of 96% on the testing dataset of 64 patients. Our training dataset is of 320 people.

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## **A Practitioner Approach of Deep Learning Based Software Defect Predictor**

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**ABSTRACT** In Software Development Life Cycle (SDLC), the coding phase so far as quality of software is concerned. The quality of software is directly related to the quality of coding done by the software developer. Minor defects in software can lead to a significant loss to software development firm. To test phase of the software development life cycle, it is a mechanism of quality control system in SDLC. Early detection of defects in software, mostly during development saves the time of testing and increases the efficiency. There are lots of ML Model developed by researchers for Software Defect Prediction (SDP) based Software Defect Predictor outperform traditional techniques. Also Deep Learning based feature extractor has outperformed traditional Software metric.

**INDEX TERMS :** Machine Learning, Software Defect Prediction, Natural Language Processing, Software Metrics.

### **I. Introduction**

Software Defect Prediction (SDP) has become very vital activities in Software Development Life Cycle (SDLC). The Testing of a large scale software product requires a lot of time and resources. It involves time consuming activities. that may results in delayed or failure in



# Folded Leafy Cube -A Reliable High Performance System for Big Data

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## ABSTRACT

In this paper, Folded Leafy cube (FLC) structure is derived from LC network to parameters. The Folding technique reduces the average node distance. FLC is suitable computing system due to comparatively lesser link complexity. Different topological parameters of FLC network are derived. While improving the routing time, it enhances the reliability of the FLC topology. The computing load on each node is claimed to be superior to the interconnection structure. In future, attempts will be made to improve routing with fault tolerance to make FLC a suitable candidate for high performance computing systems which have high computation and communication needs.

**Keywords:** HC, LC, PIN, Reliability, Efficiency

## I. INTRODUCTION

Parallel computing has longstanding core strengths in real life applications and trustworthy systems, computer security and mobile communication. The recent electronic devices work with multiple servers connected to the Internet. As a result huge amount of data is captured and stored. This large-scale activity and voluminous data has resulted in a high volume and wide variety of data need to be processed accurately. For these reasons the focal point of many researchers is on the parallel, reliable computing. For many big data applications, the Parallel Interconnection Network is now receiving much attention. It has become an essential subject in critical high performance computing and message passing systems. These systems consist of various processing elements, memory units and other components easily interact through an interconnection network. Interconnection network can be the backbone of Big data systems.

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