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Criterion No: 3.3.3

Criterion Details: Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during year.

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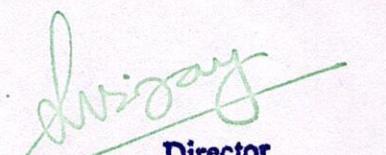
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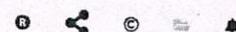
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A graded-channel double gate junction less FET (GC-DG-JL-FET) is investigated in this paper, to improve switching and RF performance of the device. The channel-region of the proposed structure comprises of two non-overlapping materials. The first region is constructed using Silicon-Germanium ($SiGe$) , and the second is composed of Silicon (Si), having channel lengths L_{C1} and L_{C2} , respectively. The region wise uniform doping concentration profiles are used for this study, which are N_{d1} for region one and N_{d2} for region two. The Hafnium Oxide (HfO_2) is used as gate oxide. The operation of the proposed device assessed using drain current (I_{ds}) , trans-conductance (g_m) , trans-conductance generation efficiency (g_m/I_{ds}) , unity gain cutoff frequency (f_t) . Further, for a fixed channel length (20 nm), the lengths of the two non-overlapping regions (i.e. L_{C1} and L_{C2}) of GC-DG-JLFET is optimized using 2D-simulations to analyze the effect of the variation in the RF -performance of the structure. It is noted, an increment in L_{C1} improves electrostatic control of the gate under the OFF state which enhances the RF characteristics of the proposed device. When optimized, the GC-DG-JL-FET for $L_{C1} = 15$ nm offers a peak g_m and f_t of $1580 \mu S/\mu m$ and 470 GHz, respectively for a total channel length of 20 nm. On account of such results, the GC-DG-JL-FET device structure can be an apropos choice for analog/RF applications.

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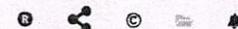
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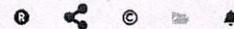
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In present work, a system is proposed which is unique in a way that there is a requirement of visually impaired friendly buildings. In current scenario when a visually impaired person enters a building which is Visually Impaired (VI) friendly, an attendant hands him over braille based navigation chart or electronic guide system. The proposed system automatically detects a visually impaired person makes an announcement, generates an alert message from the basket where VI person enabled braille based guide maps are kept. The system was tested and it is able to detect blind persons with good accuracy.

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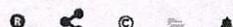
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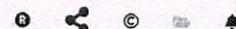
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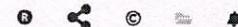
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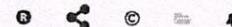
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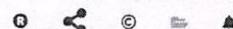
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These days, most models of consumer behaviour are built using machine learning and data mining techniques applied to actual customer information, and every model is tailored to relate to a specific question at certain duration. Customer behaviour forecasting is a challenging and uncertain endeavour. So, the correct method and strategy are necessary for creating models of client behaviour. It is challenging for a marketer to manipulate a prediction model for their own objectives, so that they can decide the best course of marketing activity for each individual customer or subset of customers. While this formulation may seem complicated, most customer models are far more straightforward. As a result of this requirement, most consumer behaviour models tend to disregard a large number of relevant elements, leading to less-than-reliable forecasts. This study reviews the available literature on the topic of analysing consumer behaviour by means of various machine learning and data mining approaches. Implementation in Python is feasible due to the software's ease of use and the importance of accuracy, error rate, and precision.

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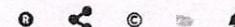
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In today's fast changing world a sustainable model of development is prescribed. Environment and climate change has taken center stage and instigated governments to think on measures to propel growth without harming the environment. Combustion Engine Vehicles have always been vast emitter of gases like CO, CO₂, NO₂ Etc. Which harm the environment and thus the climate as a whole. Electric Vehicles being non emitters of these poisonous gasses helps save the environment. Electric Vehicle (EV) being a complete system comprises of different subsystems. Be it the motors, batteries, controls and charging each of it is a system in itself. In this paper a brief outlay as to what is an EV, different types, key components, charging schemes and future technologies that can be introduced in the system is discussed.

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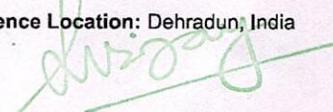
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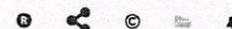
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Abstract:

The heat transfer characteristics of solid versus perforated rectangular shapes connected on a flat surface in a rectangular duct have been investigated in this study. Data for various flow and geometrical conditions were gathered and used in the performance studies. A system model that accounts for exergetic components in solar power air heating systems is being developed. In the scenario mentioned above, a man-made roughness in the form of various projections on the heat transmission surface causes turbulence and breaks up the laminar replacement layer. It increases the coefficient of heat transmission rate while requiring the least amount of pumping power possible to operate the system efficiently.

Published in: 2022 International Conference on Advances in Computing, Communication and Materials (ICACCM)

Date of Conference: 10-11 November 2022

DOI: 10.1109/ICACCM56405.2022.10009265

Date Added to IEEE Xplore: 12 January 2023

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Nikhil saxena

Department of Mechanical Engineering, Tula's Institute, Dehradun, Uttarakhand, India



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Synthesis and mechanical characterization of natural fibre polymer matrix laminated hybrid composites reinforced with glass-fibre and flax-fibre synthesized by hand-lay-up techniques

Publisher: IEEE

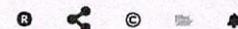
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Indian Institute of Technology (BHU),
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Abstract: In the current study, natural fibre polymer laminated hybrid composites were synthesized using flax and glass fibres. The hand-lay-up fabrication route was used to develop the natural fibre polymer matrix composites (NPMC). The final structures of hybrid laminated composite have excellent chemical resistance, better mechanical properties, low density, and low cost. Such composites structures are suitable for the construction of automobile and aircraft bodies due to their remarkable weight to strength properties and ratio. Natural fibre composites (NFCs) with polymer matrix are an advanced and fascinating green option for materials used in the construction of automobiles and aircraft. The glass fibre and flax fibre reinforced laminate offer exceptional strength with reduced weight because structural components require light materials. The tensile and compression tests were carried out on a Hounsfield tensometer, and strain gauges were used to measure the extension and contractions. Additionally, impact strength was tested with an impact testing machine using a method created by Izod and Charpy, and flexural strength was calculated using an Instron universal testing machine. Finally, in the case of the Charpy test, the impact strength showed 54kJ/m² along the fibre direction, which is 3.4 times higher than the transverse fibre direction. Similarly, in the case of the Izod test, the impact strength along fibre direction is 17kJ/m², which is three times higher than the transverse fibre direction. Similarly, the tensile and flexural properties of fabricated hybrid composites are remarkably improved.

Metadata

Abstract:

In the current study, natural fibre polymer laminated hybrid composites were synthesized using flax and glass fibres. The hand-lay-up fabrication route was used to develop the natural fibre polymer matrix composites (NPMC). The final structures of hybrid laminated composite have excellent chemical resistance, better mechanical properties, low density, and low cost. Such composites structures are suitable for the construction of automobile and aircraft bodies due to their remarkable weight to strength properties and ratio. Natural fibre composites (NFCs) with polymer matrix are an advanced and fascinating green option for materials used in the construction of automobiles and aircraft. The glass fibre and flax fibre reinforced laminate offer exceptional strength with reduced weight because structural components require light materials. The tensile and compression tests were carried out on a Hounsfield tensometer, and strain gauges were used to measure the extension and contractions. Additionally, impact strength was tested with an impact testing machine using a method created by Izod and Charpy, and flexural strength was calculated using an Instron universal testing machine. Finally, in the case of the Charpy test, the impact strength showed 54kJ/m² along the fibre direction, which is 3.4 times higher than the transverse fibre direction. Similarly, in the case of the Izod test, the impact strength along fibre direction is 17kJ/m², which is three times higher than the transverse fibre direction. Similarly, the tensile and flexural properties of fabricated hybrid composites are remarkably improved.

Published in: 2022 International Conference on Advances in Computing, Communication and Materials (ICACCM)

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Next Generation Ultra-sensitive Surface Plasmon Resonance Biosensors

https://doi.org/10.1007/978-3-031-24352-3_31

Journal: Communications in Computer and Information Science Machine Learning, Image Processing, Network Security and Data Sciences, 2022, p. 353-361

Publisher: Springer Nature Switzerland

Authors:

- | | | |
|------------------|---------------------|-----------------|
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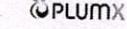
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Pothole Detection and Warning System for Intelligent Vehicles

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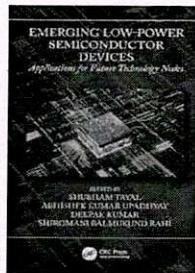
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Due to inadequate road maintenance, the road conditions are terrible everywhere. This is particularly true for the urban/rural roads. The potholes on the road grow bigger and deeper with each monsoon, increasing the number of road accidents. Over the last few years, many researchers have proposed numerous solutions to this problem. Researchers

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Chapter



Memory Designing Using Low-Power FETs for Future Technology Nodes

By *Young Suh Song* (/search?contributorName=Young Suh Song&contributorRole=author&redirectFromPDP=true&context=ubx), *Shiromani Balmukund Rahi* (/search?contributorName=Shiromani Balmukund Rahi&contributorRole=author&redirectFromPDP=true&context=ubx), *Chandan Kumar Pandey* (/search?contributorName=Chandan Kumar Pandey&contributorRole=author&redirectFromPDP=true&context=ubx), *Shubham Tayal* (/search?contributorName=Shubham Tayal&contributorRole=author&redirectFromPDP=true&context=ubx), *Yunho Choi* (/search?contributorName=Yunho Choi&contributorRole=author&redirectFromPDP=true&context=ubx), *Bijo Joseph* (/search?contributorName=Bijo Joseph&contributorRole=author&redirectFromPDP=true&context=ubx), *Tripuresh Joshi* (/search?contributorName=Tripuresh Joshi&contributorRole=author&redirectFromPDP=true&context=ubx), *Daryoosh Dideban* (/search?contributorName=Daryoosh Dideban&contributorRole=author&redirectFromPDP=true&context=ubx), *Suman Lata Tripathi* (/search?contributorName=Suman Lata Tripathi&contributorRole=author&redirectFromPDP=true&context=ubx)

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Edition	1st Edition
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Role of Cloud Computing in Goods and Services Tax(GST) and Future Application

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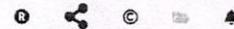
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Abstract: Due to the availability of IT infrastructure and a shift in government advisors' perspectives, cloud-based e-governance is currently becoming a reality. To effectively monitor and manage governmental policies, this article offers a practical strategy that combines the capabilities of cloud computing and social media analytics. The foundation of every economic system is taxation. Tax evasion, tax calculation, compliance process, and return filling are some major regulatory challenges. This is a problem that technology can handle perfectly. India's implementation of the goods and services tax is a significant shift in indirect taxation that would not have been achieved without technology. The manual processes used in the pre-GST era resulted in cost compliance issues and input tax credit ambiguities. Important technologies utilized in GST include big data, AI, cloud computing, etc. This study emphasize about role of cloud computing in GST.

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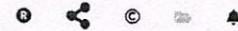
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Organization is starting to incorporate AI capabilities into their hiring procedures and further enhances the likelihood of applications. These favorable associations bet... [View more](#)

Organization is starting to incorporate AI capabilities into their hiring procedures and further enhances the likelihood of applications. These favorable associations between views regarding the employment of AI in the process of hiring and the propensity to apply for jobs have numerous significant practical ramifications. Based on my examination of a variety of research papers, this paper presents my perspective on the integration of AI into E- Recruitment. The result of the study confirms that AI adoption encourages employers to reduce the complexity of candidate sourcing, screening and evaluation in the recruitment process. AI offers recruiters promising solutions to optimize talent acquisition, improve the quality of the hiring process, and eliminate human biases. As a result, we can conclude that the incorporation of AI technology into the recruitment process results in innovative way of work that makes all the difference. A sustainable competitive advantage can be achieved through dependability, time savings, cost effectiveness, and a better candidate experience. As intelligent AI technologies gradually replace routine administrative tasks, AI will be used more and more to produce better and more effective results.

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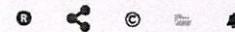
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In contrast to human intelligence, which comes from innate knowledge, artificial intelligence (AI) and big data refers to the mental capacity demonstrated by robots. AI has been revolutionized banking and the financial sector and affected on human labor as well as other stakeholders. The concept of "industry 4.0" dramatically altered how organizations operate today. The five maturity levels of the model are initial, managed, defined, established, and digitally oriented. Requirement to secure, improve the quality, and meet the interests of both clients and financial institutions is increasing day by day. Technology become base of the financial institute. This paper examines various technology models used in the financial and banking industries. The study focusses on digital technology in the banking and finance industries for gaining understanding of the topic and identifying new areas. Study examines futuristic challenges of technology in banking sectors.

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DOI: 10.1109/ICSCDS56580.2023.10105062

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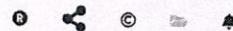
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Abstract:

The plant producers have a hard time identifying nutritional inadequacies in their crops. The capacity to recognize these comprehensive nutritional deficiencies could help regulate crops properly. Using image processing, Convolutional Neural Network (CNN), the researchers were able to categorize and identify complete nutritional deficiencies in various cultivars. The prototypes would provide prescribed plant fertilizers once nutrient insufficiency was recognized. Iron (Fe), magnesium (Mg), potassium (K), nitrogen (N), calcium (Ca) and complete nutrition were examined. For classifying the image processing techniques were used to turn the images into grayscale & binary data. Using identification and prediction, CNN predicts complete nutritional deficiencies in the plant. CNN high accuracy of detection and diagnosis of nutrient deficits in different cultivars, according to the results compared with Artificial Neural Network (ANN) and DenseNet-121. The design has been tested and the results demonstrate a better way to classify and diagnose complete nutritional deficits in different cultivars.

Published in: 2023 International Conference on Device Intelligence, Computing and Communication Technologies, (DICCT)

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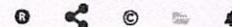
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Abstract:
UNEP's SDGs agenda 2030 focuses on the reduction of negative environmental impacts to achieve green economy. Industry 4.0 calls for energy efficient and clean energy technologies as a solution to reduce the impacts of global warming and climate change to achieve Sustainable Development Goals set by United Nations Environment Programme. United Nations Environment Programme is promoting green economy as an alternative solution to achieve sustainable development. Exponential technologies have a significant Role in achieving all the Sustainable Development Goals. United Nations Environment Programme in its report on 'Technology and innovation' has expected that by the year 2025, the market growth of technologies would be \$3.2 trillion. In this regard study covers the frontier technologies- Artificial Intelligence (AI) and Machine Learning, the Internet of things (IoT), Big Data Analytics and Block chain. The present study is related to SDG 8 and 9. This paper analyzes the significance of technological advancements for green economy. The study analyzes that technological advancements have a significant Role in sustainable developmental aspects. Therefore, to attain green economy, there is a need to encourage research and innovation on energy and environment.

Published in: 2023 IEEE Devices for Integrated Circuit (DevIC)**Date of Conference:** 07-08 April 2023**DOI:** 10.1109/DevIC57758.2023.10134956**Date Added to IEEE Xplore:** 29 May 2023**Publisher:** IEEE**► ISBN Information:****Conference Location:** Kalavati, IndiaDirector
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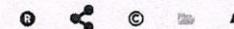
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Abstract:

Although data exchange and transparency are encouraged by the Internet, digital information is not protected by it. It has become challenging to publish the Digital Rights Management system in today's digital environment that can be regarded as well-protected. The value of digital work that is quickly accessible in open-source settings will eventually be zero to the creator. Nonetheless, anyone can download and make copies of content because it is available online. Since the value of data is typically based on how difficult it is to access, the worth of online content gradually declines. It may serve as a good alternative to the aforementioned issues. In this paper, we suggest a blockchain-based approach for a DCM system. In order to keep information transparent and secure, we store the details of copyright transactions on the blockchain. Smart Contract replaces the requirement for centralised servers to validate identities and issue licences by ensuring the validity of copyright transactions and issuing licences automatically. The possibility for using blockchain based to address the issue of managing digital copyright. This paper outlines a complete digital copyright management system (DCMS) centred on a public blockchain.

Published in: 2023 IEEE Devices for Integrated Circuit (DevIC)

Date of Conference: 07-08 April 2023

DOI: 10.1109/DevIC57758.2023.10134983

Date Added to IEEE Xplore: 29 May 2023

Publisher: IEEE

ISBN Information:

Conference Location: Kalyani, India

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20

Optimization Methods for Image Edge Detection Using Ant and Bee Colony Techniques

| Conference paper | First Online: 30 May 2023

| pp 381–388 | [Cite this conference paper](#)



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Sachin Kumar , Sandeep Kumar, Brajendra Kumar, Sandeep Sharma & Harshita Chaudhary

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In a computer image analysis, the main aim is to produce the image with specified appearance that provides more convenience for society and machines to detect, identify, and understand the situation. Image processing is the technique from which we can get any digital information that is stored in the form of images.

“Appearance Edges” are very important feature of image inquiry and clarification. “Edge Detection” technique can be applied for extraction of edges from the image. By applying these techniques, we can get every small details of an image and unwanted details of the image can be discarded resulting in fewer amounts of data to be processed. ACO and BCO are well known meta-heuristic search algorithms used in explaining various combinative optimization problems. In this paper we are hybridizing the ACO and BCO algorithms to optimize the feature selection. The simulation results show that our proposed hybrid algorithm provides promising and optimal selection of features. We used Python’s simply framework for virtual simulations.

Harshita Chaudhary

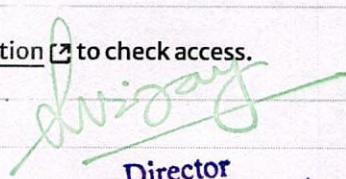
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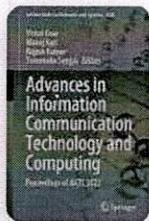

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Unconventional to Automated Attendance Marking Using Image Processing

| Conference paper | First Online: 30 May 2023

| pp 363–372 | [Cite this conference paper](#)



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Abstract

The traditional method of raising your hand in a classroom to say “present ma’am” or “yes ma’am” or whatever other things you would say is kind of fading away, Image processing is becoming increasingly important in the digital world. Magicians play an important function in today's information era. Visual processing is necessary in the area of biometrics to identify a individual whose biometric image has already been saved in a database. Image based biometrics, such as faces, biometrics, and eyes, need image processing and pattern recognition algorithms. To perform correctly, an image-based



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An Intelligent and Effective Framework for Reduction of Diabetes Risk

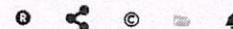
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- III. Proposed Methodology
- IV. Dataset Description and Processing
- V. Results and Discussion

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Abstract: Diabetes mellitus is characterized by a sedentary lifestyle, poor nutrition, and workplace stress, that could result in neurological damage, cardiovascular disease, seizures, renal failure, as well as other serious medical conditions.

Hyperglycemia could be efficiently managed unless diagnosed early and accurately. Techniques based on machine learning (ML) are especially effective at predicting, but also detecting hyperglycemia later. This assignment would aim to investigate hypoglycemic episodes using supervised and unsupervised machine learning methods. From 2018 to 2022, studies on hyperglycemia treatment were included in the evaluation. Hyperglycemia has been forecasted overall incredible precision using judgment tree-based techniques such as Logistic Regression, SVM, XGBoost, AdaBoost, etc. Unmonitored learning methods like LDA and KMean could help with feature extraction as well as unique identification in huge datasets. As a hybrid model of supervised and unsupervised machine learning approaches, K-Mean and SVM have also been used to interpret and analyze hyperglycemia with great confidence.

Published in: 2023 International Conference on Computational Intelligence, Communication Technology and Networking (CICTN)

Date of Conference: 20-21 April 2023

DOI: 10.1109/CICTN57981.2023.10140921

Date Added to IEEE Xplore: 07 June 2023

Publisher: IEEE

ISBN Information:

Conference Location: Ghaziabad, India

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Speed Analysis on Client Server Architecture Using HTTP/2 Over HTTP/1: A Generic Review

| Conference paper | First Online: 13 June 2023

| pp 397–403 | [Cite this conference paper](#)



Emerging Trends in Expert Applications and Security (ICE-TEAS 2023)

Anuj Kumar, Raja Kumar Murugesan, Harshita Chaudhary, Umang

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Abstract

The innovation and advancement of this digital era is where every physical deed is working remotely and on online platform. Today our generation is surrounded with the plethora of platforms where they can post their data and it will be present in the cyber

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Automatic Speed Control of Vehicles in Speed Limit Zones Using IR Sensor

| Conference paper | First Online: 13 June 2023

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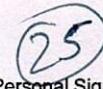
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Abstract

Because people are driving so quickly today, accidents happen regularly, and we have lost important lives due to careless driving (school zone, areas on agrarian highways, hospitals, etc.). Therefore, the highway authority has installed the signboards in such spots to prevent such kinds of unwelcome accidents, to notify drivers, and to help them

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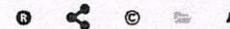
Conferences > 2022 2nd International Confer...

Influences of forced frequency and its Static Analysis of Kaplan Turbine Shaft with Different Engineering Materials

Publisher: IEEE Department of Mechanical Engineering,
Tula's Institute, Dehradun, Uttarakhand,
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Anupam Gautam ; Anurag Bahuguna ; Rahul Kumar ; Amit Morey ; Sachin Sachin ; Shubham Pal ; S.C. Ram All Authors



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Abstract:

In the present investigation, the SolidWorks software tool was employed for failure analysis of the Kaplan turbine shaft using modal test analysis. The failure analysis has been performed the concerning applied load at different frequencies (285.92, 288.69, 348.65, 353.12, 369.23, and 382.65Hz). The turbine shaft generally fails due to excess load and high speed, such type of failure can be minimized using optimal load and appropriate materials. Shafts are the generally used in the turbine and it is subjected to failure due to a large number of stresses induced at the coupling of shaft and flange. This analysis was carried out for different materials used and analyzed which material was more suitable for this application on behalf of the yielding strength of the materials. The main objective of this work is appropriate material for the shaft and reduced the value of stresses. In this work, two types of material (AISI-1040 carbon steel and Forged steel) have been taken and performed the test to get the desired property.

Published in: 2022 2nd International Conference on Innovative Sustainable Computational Technologies (CISCT)

*Director
Tula's Institute, Dehradun*

Date of Conference: 23-24 December 2022

DOI: 10.1109/CISCT55310.2022.10046570

Date Added to IEEE Xplore: 22 February 2023

Publisher: IEEE

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Conference Location: Dehradun, India



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Publisher: IEEE

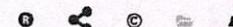
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Abstract:

In the present investigation, we aimed to improve the solar still's efficiency by modifying the absorber plate's shape and thus intensifying the insulating plate's area. Solar stills are gaining one of the most cost-effective methods of producing distilled water, and many current investigators are working on it. Solar still can be used to purify saline water by employing the heat of solar irradiance to convert water into steam, which is then condensed on the reflective surface and accumulated in a container via a channel. In this work, a solar still have designed with an absorber plate folded in the shape of stairs and geometric dimples on the plate surface. Also, on the 10 steps of the absorber plate, several dimples with a radius of 3 mm were formed to increase their surface area. An inclined traditional type solar still (ICSS) was also built to compare the efficiency of the modified stepped solar still (MSSS) against that of the traditional solar still designs. During the analysis, it was found that the Productivity and efficiency of modified solar stills were significantly higher than those of conventional solar stills. When tested at a water depth of 1cm, the maximum Productivity per hour of the modified solar still was 0.30 kg per hour, while the conventional type solar still was 0.23 kg per hour. The performance level of the modified solar still was 18.80%, while the overall efficiency of the traditional ones still was 15.44%. The present results showed that the overall performance of the MSSS still was highly (3.34%) efficient than that of ICSS.

Published in: 2022 2nd International Conference on Innovative Sustainable Computational Technologies (CISCT)

Date of Conference: 23-24 December 2022

DOI: 10.1109/CISCT55310.2022.10046625

Date Added to IEEE Xplore: 22 February 2023

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Imperative role of customer segmentation technique for customer retention using machine learning techniques

Publisher: IEEE

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Institute, Dehradun, India

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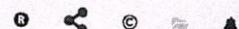
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Abstract: Customer segmentation is crucial for businesses to employ as a tool to guide them toward more successful marketing and product development. Customers can be divided into ... [View more](#)

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Abstract:

Customer segmentation is crucial for businesses to employ as a tool to guide them toward more successful marketing and product development. Customers can be divided into essentially infinite segments. Businesses need to have a deeper grasp of their customers' behaviour from all angles if they want to retain their business. Earlier segmentation techniques may have helped identify the client segments that need more attention. However, they were unable to spot a pattern in client attrition to take alternative measures. Finding patterns in customer behaviour, predicting consumer behaviour, and providing customers with better options and opportunities have become increasingly important for fostering customer-company engagement. It became crucial to divide up clients into groups based on their behaviours and personal information. The most effective and adaptable analytical frameworks and machine learning models for client segmentation are examined in this review paper.

Published in: 2023 International Conference on Artificial Intelligence and Smart Communication (AISC)

Date of Conference: 27-29 January 2023

DOI: 10.1109/AISC56616.2023.10085487

Date Added to IEEE Xplore: 03 April 2023

Publisher: IEEE

► ISBN Information:

Conference Location: Greater Noida, India

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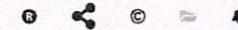
Comparing Performance And Computational Efficiency Of Face Recognition Approaches

Publisher: IEEE

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Abstract:

Some of the simplest tasks for a human to accomplish are the most difficult for a machine to solve. Face recognition is an example of this type of problem. Researchers have been attempting to solve face recognition since the 1960s. It's come a long way, and there have been many potential solutions offered. Most of these solutions are provided based on machine learning techniques. The utilisation of edge devices such as smartphones, smartwatches, automotive devices, and other smart home products has skyrocketed the use and development of face recognition in recent years. The main goal of this research paper is to do a thorough investigation and then choose the finest potential solutions for a face recognition application. This study's main objective was to evaluate various solutions theoretically and experimentally. It is not possible to experimentally evaluate every face recognition method available in literature. So, we conducted a literature survey and chose 3 of the most accurate models, namely FaceNet, MobileNet and InceptionResNet. The famous five celebrity faces dataset is used to train and test the models on Google Colab platform. Among all the three models, it was found that FaceNet provided the most reliable results in terms of accuracy while being computationally efficient. In the future, other methods and models for face recognition can be investigated and applied. Finding a model that is even more accurate than FaceNet will be an interesting task.

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Published in: 2022 International Conference on Advances in Computing, Communication and Materials (ICACCM)

Date of Conference: 10-11 November 2022

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Date Added to IEEE Xplore: 12 January 2023

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Conference Location: Dehradun, India
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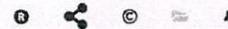
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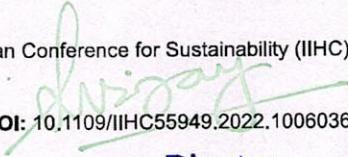
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Abstract:

Through the utilization of the Internet, cloud computing supplies storage and computation resources to deliver services for many sectors. The speed of such systems suffers, though, since delay-sensitive systems, such as smart city and health applications, increasingly need for processing over massive volumes of data transmitted to centralised datacenters. When compared to cloud services, the paradigms of fog as well as edge computing provide innovative solutions by affecting the financial closer to the customer and by having low energy consumption and latency effectiveness. To optimise expense and resource efficiency, enhance QoS, and increase security and privacy, it is crucial to discover the best locations for services and assets inside the 3 IoT. The bipartite graph task scheduling method we provide in this research enhances cost effectiveness in real world applications with strict deadlines. The proposed method's performance in terms of delay, network congestion, as well as cost is deployed and tested to use the iFogSim simulator, an expanded version of CloudSim. The evaluation results demonstrate that the suggested algorithm outperforms Round-Robin and Minimum Response Time methods in terms of both cost as well as throughput.

Published In: 2022 International Interdisciplinary Humanitarian Conference for Sustainability (IIHC)

Date of Conference: 18-19 November 2022


DOI: 10.1109/IIHC55949.2022.10060362

Date Added to IEEE Xplore: 17 March 2023

Publisher: IEEE **Director:**
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Design and Fabrication of Eco-Kart Vehicle Using AISI 4130(CHROMOLY) Alloys as Chassis Material

Publisher: IEEE

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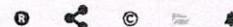
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Department of Mechanical Engineering,
Tula's Institute, Dehradun, Uttarakhand,
India

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Abstract: In the present paper, the design concept, analysis parts, and fabrication method of an Eco-Kart Vehicle using AISI 4130(CHROMOLY) alloys have been presented. The modest four-wheeled go-kart vehicle design and used for the racer with no suspensions or differential and saves fuel consumption, due lightweight. The design elements of an eco kart for safety and comfort, as well as excellent energy savings. The Green kart model is considered after the materials used, testing, validation, and economic considerations. The primary objective of the training is to establish a comfortable and operational ground vehicle with a stiffer and torsion-free chassis. This article outlines the goals, generalizations, and different desirable calculations part used in the design of an Eco Kart. The several design configurations were selected in such a way that the Kart is simple to manufacture in every way. Finite Element Analysis (FEA) was performed using ANSYS software. However, the structural stability of the chassis frame was authenticated by trying to compare the results of an analysis to the standard values. The study looked at dynamic and static deflection, as well as various impacts loading on the chassis structure. Because the go-kart chassis is comprised of less material than a conventional automobile chassis, it should be able to withstand applied loads as well. As a result, the key considerations for an excellent go-kart chassis material are a strong foundation and lightweight.

Metadata

Abstract:

In the present paper, the design concept, analysis parts, and fabrication method of an Eco-Kart Vehicle using AISI 4130(CHROMOLY) alloys have been presented. The modest four-wheeled go-kart vehicle design and used for the racer with no suspensions or differential and saves fuel consumption, due lightweight. The design elements of an eco kart for safety and comfort, as well as excellent energy savings. The Green kart model is considered after the materials used, testing, validation, and economic considerations. The primary objective of the training is to establish a comfortable and operational ground vehicle with a stiffer and torsion-free chassis. This article outlines the goals, generalizations, and different desirable calculations part used in the design of an Eco Kart. The several design configurations were selected in such a way that the Kart is simple to manufacture in every way. Finite Element Analysis (FEA) was performed using ANSYS software. However, the structural stability of the chassis frame was authenticated by trying to compare the results of an analysis to the standard values. The study looked at dynamic and static deflection, as well as various impacts loading on the chassis structure. Because the go-kart chassis is comprised of less material than a conventional automobile chassis, it should be able to withstand applied loads as well. As a result, the key considerations for an excellent go-kart chassis material are a strong foundation and lightweight.

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Date Added to IEEE Xplore: 22 February 2023

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Role of industrial automation in terms of providing predictive maintenance in the transportation and logistics sector

Publisher: IEEE

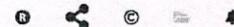
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IV. Result and Discussion

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Abstract:

The best practitioners of Spatial cluster analysis the whole of ideas, innovation, convey the practices and challenges, so be spread is very important, the logistics industry of Spatial cluster analysis, a unique interdisciplinary effort, epidemiologists apply the statistics. In this study, reviewed the scope of the retrieval spatial cluster analysis method employed by systematically individual level, a peer-reviewed journal database to study the data obtained from the address position or coordinates. Advanced Resource management (ARM) for logistics are widely used in such consumer transport monitoring. Because of its reduced instruction set, require effective few transistors smaller for the Integrated Circuit (IC) which is used to logistics monitoring in transportation. The existing system does not have proper result for less accuracy of logistics industry spatial cluster analysis and then less poor performance of spatial cluster analysis for prediction and classification. The proposed method gives correct result of more accuracy of logistics industry spatial cluster analysis and then high performance of spatial cluster analysis in this section using Random Support Vector System (RSVS) algorithm. The proposed system processes the data collection and analysis, then use the classification process, Advanced RISC Machines (ARM) Heterogeneous and Spatial cluster analysis and predict the result.

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DOI: 10.1109/IIHC55949.2022.10060193

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Revolutionizing IoT Network Security with Deep Learning-Anomaly Detection Model

Publisher: IEEE

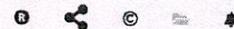
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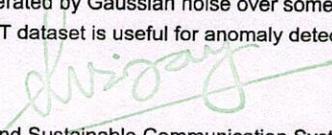
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The term "Internet of Things" (IoT) is used to describe the collection of data and the connectivity of items to the web that requires little to no human interaction. The IoT is a network of interconnected devices that can collect and disseminate information. Increased security and privacy worries accompany the launch of new devices due to the proliferation of Internet connections and the development of cutting-edge technology like the IoT. These days, the IoT is used everywhere, but especially in logistics, manufacturing, and healthcare. While these emerging IoT applications greatly enhance the usefulness of smart objects, they also present new security risks. Because of this, adapting existing intrusion detection systems (IDS) for use with IoT networks is a topic of intense study. Many IDS experts have found success with machine learning (ML) and deep learning (DL) techniques. By combining deep extraction through the Convolutional autoencoder with deep learning to identify the best features, this work delivers an improved IDS that can be used for anomaly detection. Improves to the deep learning approach include an evaluation of hyperparameter effectiveness, a stage of feature pruning using an autoencoder neural network, and an examination of the sturdiness of the most effective deep neural networks for circumstances exaggerated by Gaussian noise over some of the features in question. Despite the noise, the results show that the formed IoT dataset is useful for anomaly detection with deep learning methods.

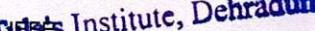


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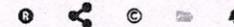
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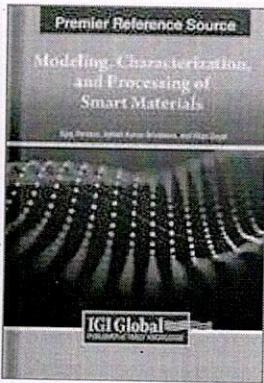
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Subhash Chandra Ram (/affiliate/subhash-chandra-ram/449706/), Awani Bhushan (/affiliate/awani-bhushan/449707/), Sunkulp Goel (/affiliate/sunkulp-goel/449708/)

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The present study provides a comprehensive state-of-the-art on currently available information about the advancement of Al-Mg2Si in-situ FG-composites for various automotive application domains, as well as their inherent benefits and drawbacks. Additionally, the chapter explored how a functionally graded material (FGMs) might serve as a suitable replacement material for automotive components. FGMs can be practically modified through the modification of their constituents to meet particular functional needs. The production of FGMs employs an extensive range of approaches. Taking into consideration Al-Si-Mg alloy as the starting materials, the fabrication methods are categorized as follows: liquid processes, gaseous processing, and solid particle methods. This chapter describes the typical centrifugal casting technique for Al-Mg2Si in-situ functionally graded lightweight composites. Optical and SEM analysis of reinforced phase Mg2Si particles, Al-Si eutectic phases, and α -Al grains size were presented in detail.

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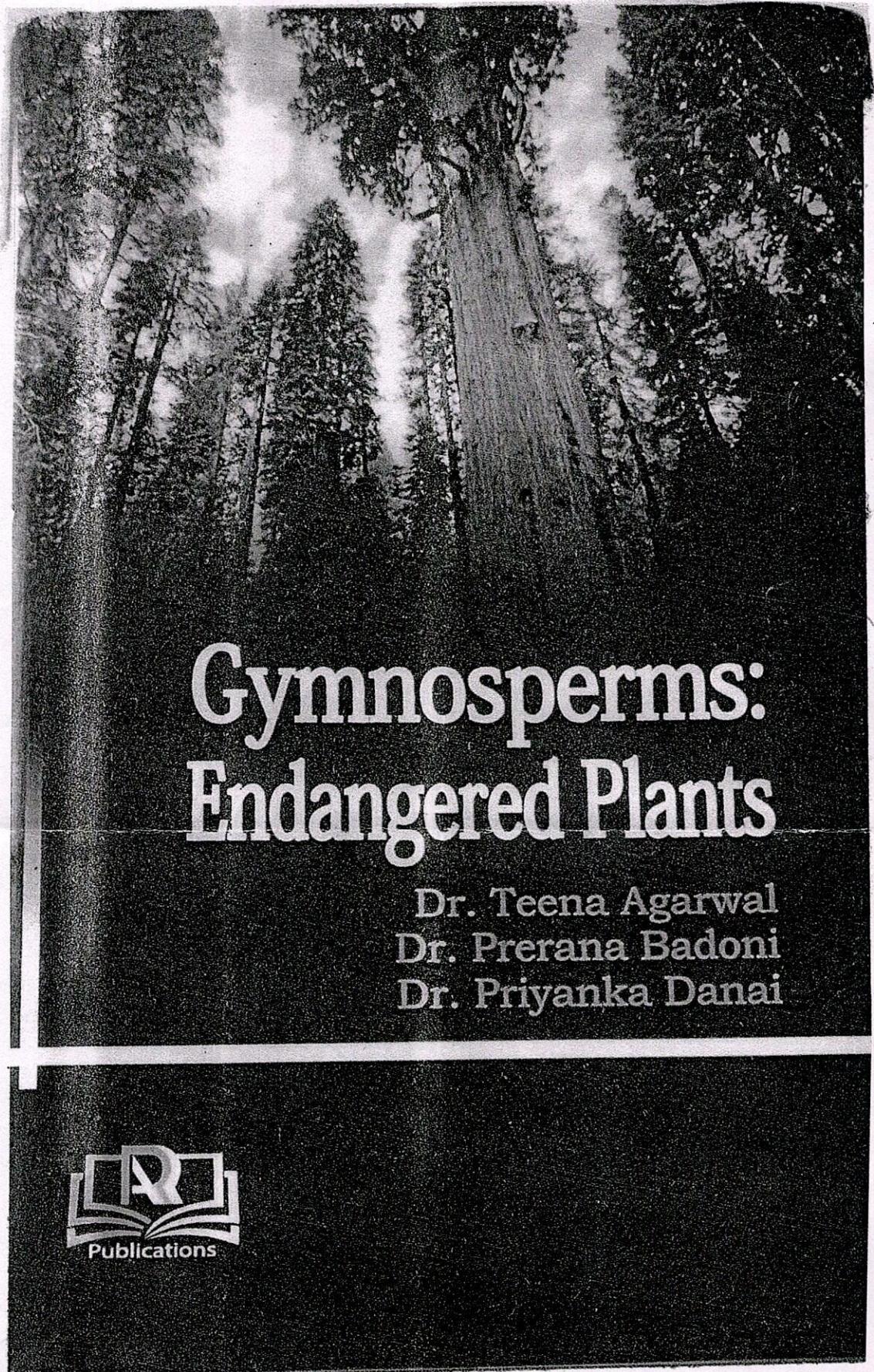
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Particularly in the automotive and aerospace industries, the production and demand for lightweight materials have recently expanded. Conventional components such as steel as well as iron casting have higher tensile strength but are heavier in weight than aluminum alloy. The majority of researchers and educators now believe that cast iron and steel can be replaced by alloys based on aluminium and silicon in the production of engine parts. A356 and A319, the two most widely used aluminium alloys, are employed in automobile parts but do not have the necessary tribological qualities (Watanabe et al., 2011; Sobczak et al., 2009; Zhang et al., 1999). The manufacturing of functionally graded materials (FGM) and their design made it possible to produce composite materials with different microstructures and proportions. Moreover, the wear resistance will be offered if the degree of distribution of hard reinforcing particles in the surface layers is altered. The flexibility and hardness of the middle and opposing side layers will eventually grow as a result of their gradual depletion throughout the reinforcing phase. Potential candidate materials include functionally graded aluminum-based composites reinforced with Mg2Si for use in aerospace, automotive, and other applications.

Functionally graded composites (FG-Composites) are made of heterogeneous materials that have been purposefully adjusted to have a variety of conflicting properties. FGMs are employed in a variety of industries, including automobiles, chemicals and petrol, mitigation, and space exploration (Kumar et al., 2021; Ram et al., 2017; Ram et al., 2023). The production of functional qualities of any component is only achievable with a gradient distribution of dispersed phase particles (Xu, F. M., et al. 2004). Aluminium has several applications, including the fabrication of lightweight structural components with varying qualities using various alloys. Aluminium and its alloys are commonly used in manufacturing businesses as well as research endeavours due to their outstanding castability and desirable features. Many desired qualities of aluminium and its alloys include high stiffness, ductility, high strength-to-weight ratio, good thermal stability, good conductivity and durability. They are also less expensive when compared to other readily available and commonly used low-density alloys (Melgarejo et al., 2008). Because of their great flowability and castability, Al-Si-based alloys are ideal for use in the aerospace and automotive industries. Aluminium, various aluminium alloys, and ceramic composite materials are the most often used materials in composite production (Ram et al., 2016). The bulk of automobile components are frequently stressed either mechanically or thermally. Nowadays, there is a growing market for lightweight materials, particularly in the automotive sector to reduce fuel consumption. To attain the required functional performance, however, specialised advanced composites must be designed, such as low-density replacement materials that have

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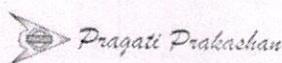


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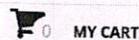
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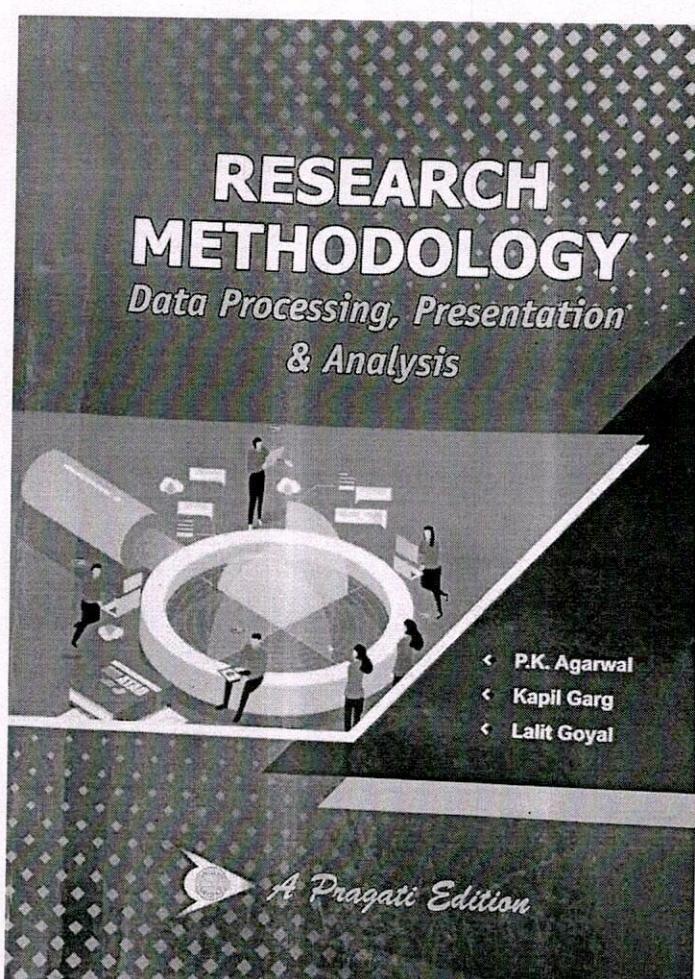
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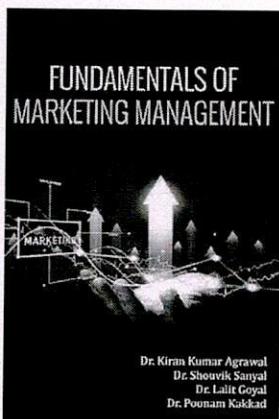


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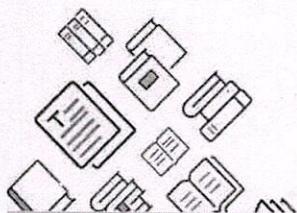
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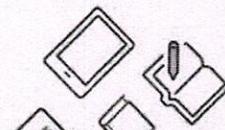
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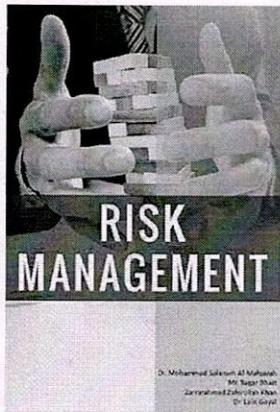
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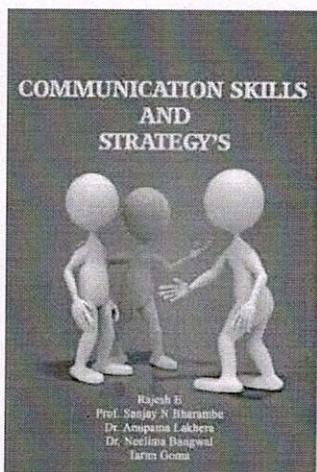
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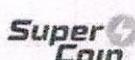
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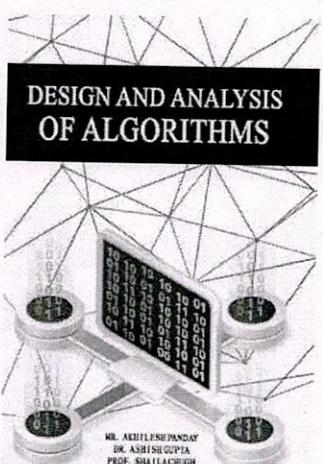
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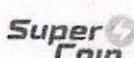
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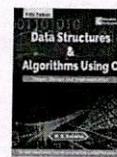
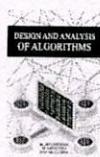
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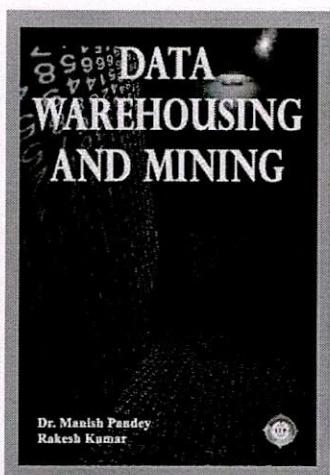
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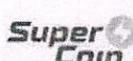
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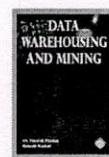
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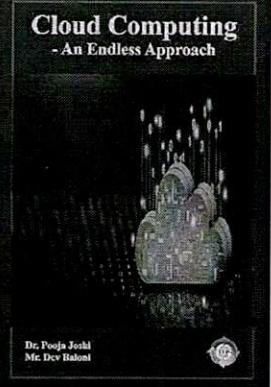
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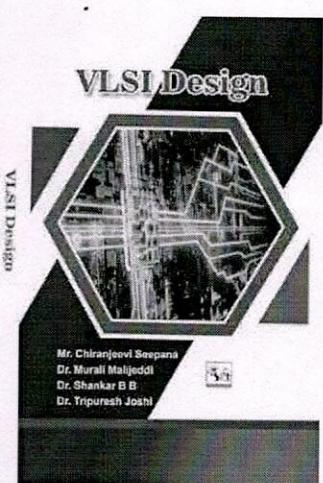
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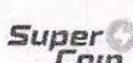
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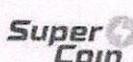
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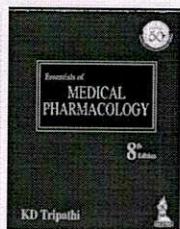
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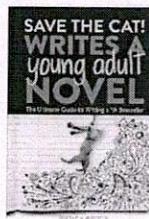
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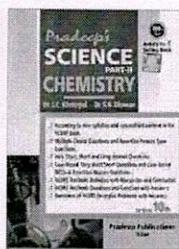
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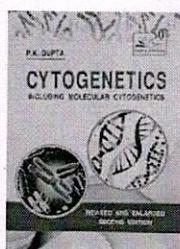
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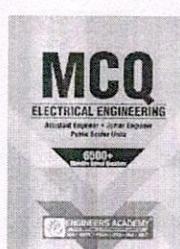
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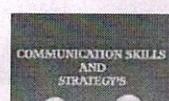
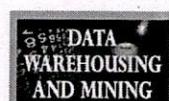


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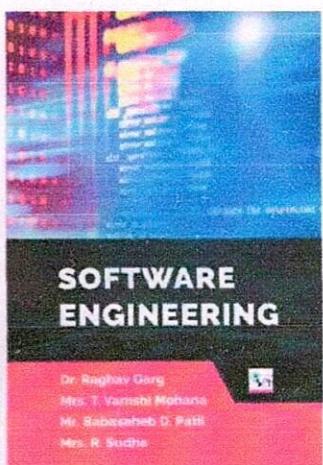
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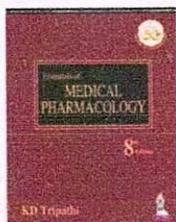
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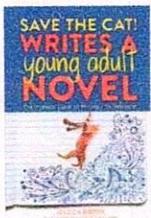
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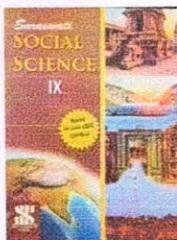


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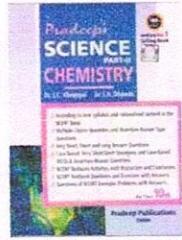
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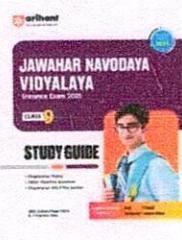
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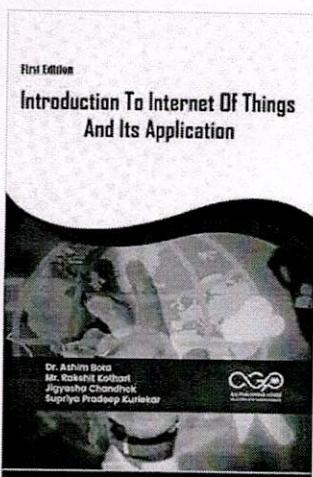


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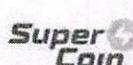
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