Criterion III – Research Innovation and Extension

Key Indicator - 3.4 Research Publications and Awards

3.4.4 Number of books and chapters in edited volumes published per teacher during the last five years

3.4.4.1 Total Number of books and chapters in edited volumes published during the last five years

Contents

- Copy of the Cover page, content page and first page of the publication indicating ISBN number and year of publication for books/chapters

Sustainability in Chemical Processes through Digitalization and Green Chemistry Approaches

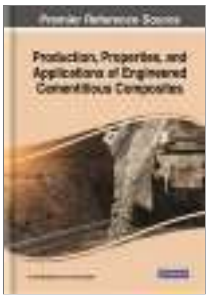
$230.00

Susarla V.A.R. Sastry, PhD– Associate Professor of Chemical Engineering, School of Chemical Technology, Harcourt Butler Technical University, Kanpur, India
Shravan Kumar, PhD – Harcourt Butler Technical University, Kanpur, India
Ashish Kapoor, PhD – Harcourt Butler Technical University, Kanpur, India

Series: Chemical Engineering Methods and Technology
BISAC: TEC009010; TEC009000; TEC066000
DOI: https://doi.org/10.52305/HUMP1467

The sustainability of chemical processes extends beyond the physical and chemical sciences to include the biological sciences – reflected by bio and green modifiers, and other resources like alternate energy, alternate feedstock, green processes with minimal footprint and minimal environmental impact, process intensification, recycling etc.

Digitalization has transformed the chemical industry rapidly across its entire value chain through predictive maintenance and process automation. There are applications of artificial intelligence in the chemical engineering field, such as modeling, optimization, process control, reaction engineering, fault detection and diagnosis. Artificial Intelligence (AI) could provide a significant



Production, Properties, and Applications of Engineered Cementitious Composites

S. Praveenkumar (/affiliate/s-praveenkumar/429941/), J. Paulo Davim (/affiliate/jpaulo-davim/325955/)

Indexed In: SCOPUS

Release Date: April, 2024

Pages: 344

DOI: 10.4018/978-1-6684-8182-0

ISBN13: 9781668481820
ISBN10: 1668481820
ISBN13 Softcover: 9781668481837
EISBN13: 9781668481844

Description & Coverage

Description:

Engineered cementitious composites (ECC) is a new type of fiber-reinforced bendable cementitious composite that is used in various civil engineering applications instead of conventional and fiber-reinforced concrete due to its high mechanical and durable properties. In the macro and micro mechanic systems of ECC, the incorporation of different materials plays a vital role in enhancing the properties of ECC. Conventional concrete and fiber-reinforced concrete have a brittle nature and crack easily under environmental and mechanical loads, affecting the durability of structures. The usage of alternative materials in the ECC modifies the brittle nature and offers environmentally sustainable construction with low embodied energy and a negative carbon footprint.

Production, Properties, and Applications of Engineered Cementitious Composites highlights the new and innovative ways of production, properties, and various applications of engineered cementitious composites. The main focus of the book is on the latest advancements, technical knowledge, tools, and solutions for engineered cementitious composites manufacturing, design, and technologies for construction from various perspectives. Covering key topics such as alternative materials, mineral admixtures, and testing of engineered cementitious composites, this premier reference source is ideal for engineers, industry professionals, researchers, academicians, scholars, practitioners, instructors, and students.

Coverage:

The many academic areas covered in this publication include, but are not limited to:

- Advancements in Engineered Cementitious Composites
- Alternative Materials
- Applications of Engineered Cementitious Composites
- Engineered Cementitious Composites

- Mineral Admixtures
- Modeling of Engineered Cementitious Composites
- Production of Engineered Cementitious Composites
- Properties of Engineered Cementitious Composites
- Resilience of Engineered Cementitious Composites
- Testing of Engineered Cementitious Composites

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Chapter

Study of Compressive Strength of Brick Prisms with Three Different Types of Bricks

Mar 2024
DOI: 10.9734/bpi/taer/v7/7573E
In book: Theory and Applications of Engineering Research Vol. 7

Suyamburaja Arulselvan · Puvaneswari G.

Abstract

The objective of this research is to study the compressive strength of brick prisms with three different types of bricks. The experiments involved to quantify the strength of brick prisms with two different mixes. Experimental investigations have been conducted on brick prism specimens to study its performance with the presence of reinforcement. Brick prisms were constructed using red bricks, fly ash bricks and concrete bricks with and without embedding steel reinforcement. Cement mortar with 1:5 and 1: 6 mixes have been used to build prisms. Concrete bricks of same sizes were casted in the lab and used after proper curing. Brick prisms were subjected to compressive force by Universal Testing Machine. Compressive strength of different types of brick prisms were compared and plotted. Compressive strengths were improved by embedding steel reinforcement in the brick works. Reinforced Concrete brick prisms contributed higher strength. Reinforced concrete bricks and fly ash bricks can be used in brick works were buildings situated in earthquake prone area. Two layers or

works, load carrying capacity and stability of brick works have been improved. Due to ductile properties of steel reinforcement, steel embedding brick works led to ductile and reduce brittle cracks. Overall performance of brick works improved by embedding steel reinforcement.

A Smart IoT Solution for Reducing Carbon Levels in Computer Labs Through Hanging Plant Pots: GreenLab

K. Amshakala, Mariammal, Hemalatha, R. Saveeth

Source Title: The Convergence of Self-Sustaining Systems With AI and IoT (/book/convergence-self-sustaining-systems-iot/329616)

Pages: 22
DOI: 10.4018/979-8-3693-1702-0.ch001

Abstract

As concerns about climate change and environmental sustainability continue to grow, the need for innovative solutions to reduce carbon emissions in various settings has become increasingly critical. This manuscript presents an IoT integrated system designed to address carbon emissions in computer laboratories by introducing an unconventional approach: placing plant pots as wall hangings inside these spaces. This unique system combines sensor technology, data analytics, and eco-friendly design principles to create a sustainable and efficient solution for mitigating carbon emissions within computer laboratories. The IoT integrated system is comprised of several key components, including environmental sensors to monitor air quality and CO2 levels, automated watering systems to ensure the health of the plants, and a central control unit that collects and analyzes data in real-time. This IoT integrated system represents a novel and practical approach to address carbon emissions in computer laboratories while promoting sustainability and well-being.

Chapter Preview

Top

1. Introduction

In recent years, the intersection of technology and environmental sustainability has paved the way for innovative solutions to mitigate carbon emissions and address the pressing challenges of climate change. Among these solutions, the integration of Internet of Things (IoT) technology into indoor plantation systems represents a promising avenue for reducing indoor carbon emissions while fostering greener, healthier environments (Marques, Ferreira, & Pitarma, 2019) (Susanto et al., 2021) (Suhaimi et al., 2017) (Weerasinghe et al., 2023). By harnessing IoT-supported indoor plantation techniques (Marques, Ferreira, & Pitarma, 2019) (Suhaimi et al., 2017) (Weerasinghe et al., 2023), we can not only enhance indoor air quality but also contribute to the global effort to combat climate change.

Indoor carbon emissions, stemming from various sources such as heating, ventilation, and combustion processes, pose significant threats to both human health and the environment. These emissions contribute to indoor air pollution and exacerbate outdoor air quality issues when released into the atmosphere. Furthermore, conventional indoor environments often lack the natural mechanisms present in outdoor ecosystems to effectively remove carbon dioxide from the air. This imbalance perpetuates a cycle of indoor pollution and exacerbates the carbon footprint associated with indoor activities and leads to health risks (Mata et al., 2022) (Wickliffe et al., 2020).

In response to these challenges, the integration of IoT technology with indoor plantation systems offers a multifaceted approach to address indoor carbon emissions. By leveraging IoT sensors, automation, and data analytics, indoor plantations can be optimized for maximum carbon sequestration efficiency while minimizing resource consumption. IoT sensors can continuously monitor environmental parameters such as carbon dioxide levels, temperature, humidity, and light intensity, providing real-time insights into the health and growth of indoor plants.

Moreover, IoT-enabled automation allows for precise control over environmental conditions, ensuring optimal growing conditions for plants while minimizing energy consumption. Automated irrigation systems, coupled with smart nutrient delivery mechanisms, can enhance plant growth rates and carbon sequestration capabilities. Additionally, data analytics algorithms can analyze sensor data to optimize plantation strategies, identifying trends and patterns to

Commerce 5.0: Future-Proofing Businesses in the 6G Security Landscape

Uchit Kapoor, S. Thilaga (/affiliate/s-thilaga/479327/), Manish Gupta, Nikhil Polke, Joshuva Arockia Dhanraj (/affiliate/joshuva-arockia-dhanraj/463933/)

Source Title: 6G Security Education and Multidisciplinary Implementation (/book/security-education-multidisciplinary-implementation/348053)

Pages: 20

DOI: 10.4018/979-8-3693-7421-4.ch008

Abstract

Commerce 5.0 is the newest step forward in business. It's a paradigm shift made possible by the use of cutting-edge technologies. It's a move away from traditional transactional models and toward dynamic, digitally driven ecosystems that put an emphasis on hyper-personalization, seamless connectivity, and processing data in real time. Commerce 5.0 uses new technologies like AI, blockchain, IoT, AR, and others to change how businesses work with customers and the market. One thing that makes Commerce 5.0 unique is that it focuses on making ecosystems that are very flexible and quick to respond. Businesses can learn a lot about customer behavior, preferences, and trends by using AI-driven analytics and predictive modeling. In this way, they can give each customer a more customized experience and make offerings that really speak to them. Companies can get real-time data from all along the supply chain by using IoT devices and sensors.

Chapter Preview

Complete Chapter List

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A Lightweight Cipher for Balancing Security Trade-Off in Smart Healthcare Application

| Conference paper | First Online: 26 October 2023

| pp 531–549 | Cite this conference paper

International Conference on Innovative Computing and Communications

(ICICC 2023)

K. N. Sandhya Sarma, E. Chandra Blessie & Hemraj Shobharam Lamkuche

Part of the book series: Lecture Notes in Networks and Systems ((LNNS,volume 731))

Included in the following conference series:
International Conference On Innovative Computing And Communication

Abstract

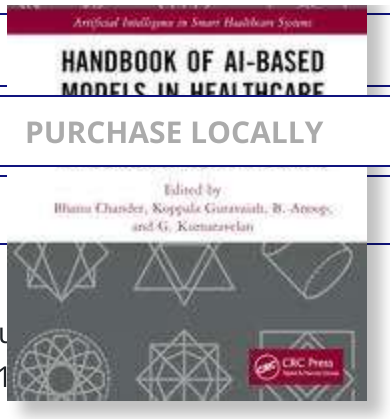
1st Edition

Handbook of AI-Based Models in Healthcare and Medicine

Approaches, Theories, and Applications

Edited By Bhanu Chander, Koppala Guravaiah, Anoop Benet Nirmala, G. Kumaravelan

Hardback



PURCHASE LOCALLY

ISBN 9781032419152
476 Pages 173 B/W Illu
Published February 21

PREVIEW BOOK

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Description

This handbook provides thorough, in-depth, and well-focused developments of artificial intelligence (AI), machine learning (ML), deep learning (DL), natural language processing (NLP), cryptography, and blockchain approaches, along with their applications focused on healthcare systems.

Handbook of AI-Based Models in Healthcare and Medicine: Approaches, Theories, and Applications highlights different approaches, theories, and applications of intelligent systems from a practical as well as a theoretical view of the healthcare domain. It uses a medically oriented approach in its discussions of human biology, healthcare, and medicine and presents NLP-based medical reports and medicine enhancements. The handbook includes advanced models of ML and DL for the management of healthcare systems and also discusses blockchain-based healthcare management. In addition, the handbook offers use cases where AI, ML, and DL can help solve healthcare complications.

Undergraduate and postgraduate students, academicians, researchers, and industry professionals who have an interest in understanding the applications of ML/DL in the healthcare setting will want this reference on their bookshelf.

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Empirical Analysis of Crop Yield Prediction Using Hybrid Model

| Chapter | First Online: 21 March 2024

| pp 63–85 | Cite this chapter

Intelligent Robots and Drones for Precision Agriculture

E. Chandra Blessie, Sundaravadivazhagan Balasubaramanian & V. Kumutha

Part of the book series: Signals and Communication Technology ((SCT))

Abstract

Over the past few years, the agricultural sector has undergone a remarkable transformation through the incorporation of state-of-the-art technologies. In the year 2023, the emergence of machine learning (ML), robotics, artificial intelligence (AI), and drones is poised to redefine the future of agriculture, propelling us into an era characterized by smart farming.

Publication Type: EDITED BOOK

SOIL TEXTURE CLASSIFICATION AND SEGMENTATION USING HYBRID RANDOM FOREST WITH ARTIFICIAL NEURAL NETWORK

Book Name: Futuristic Trends in Computing Technologies and Data Sciences Volume 3 Book 5

Authors: K. Anandan, E. Chandra Blessie, Jayamol P. James

Keywords: Soil Texture, Random Forest (RF), Artificial Neural Networks (ANN), Convolutional Neural Network (CNN).

Area/Stream: Computing Technologies, Data Sciences / Data visualization / Other

Published in: IIP Series

Volume: 3, **Month:**May,**Year:**2024

Page No.: 50-62

e-ISBN: 978-93-6252-341-9

DOI/Link: https://www.doi.org/10.58532/V3BACT5P2CH4

Abstract:

The texture of the soil has an impact on several environmental processes. Traditional soil textural assessment takes a long period, thus the quick and non-intrusive forecast of soil sand, clay, and silt seems preferable. The project's objective is to develop a hybrid Random Forest with an Artificial Neural Network (RF-ANN) model that predicts soil texture (concentrations of sand, clay, and silt) using Convolutional layers and a Random Forest. The standardized ANN model can be used to create high-resolution soil maps in parallel locations without the requirement for extra field surveys. The hybrid RF-ANN model was trained and tested using field measurements of soil texture in these land use and coverage area frames using the LUCAS Soil Texture Survey data set. Data showed that the optimization process outperformed the popular training method based on robust back-propagation. When compared to existing models, colour attributes perform better than all image-extracted kinds and have the highest influence on suggested models' performance. When compared to current models, OC, CEC, Clay, Sand, Clay, pH, and N have higher forecast accuracy. The results show that the RF-ANN model paired with linear function has been employed in the regions where the prototype is attuned if the comparative range of input parameter is similar to the section where the prototypical was regulated.

Cite this: *K. Anandan, E. Chandra Blessie, Jayamol P. James, "SOIL TEXTURE CLASSIFICATION AND SEGMENTATION USING HYBRID RANDOM FOREST WITH ARTIFICIAL NEURAL NETWORK", Futuristic Trends in Computing Technologies and Data Sciences Volume 3 Book 5,IIP Series, Volume 3, May, 2024, Page no.50-62, e-ISBN: 978-93-6252-341-9, DOI/Link: https://www.doi.org/10.58532/V3BACT5P2CH4*

Publication Type: EDITED BOOK

A COMPREHENSIVE STUDY ON NODE CLASSIFICATION BY LATENT REPRESENTATION LEARNING METHODS IN NETWORK ANALYSIS

Book Name: Futuristic Trends in Computing Technologies and Data Sciences Volume 3 Book 5

Authors: E. Chandra Blessie, K. Anandan, Sandhya Sharma

Keywords: Community Detection, Latent Representation, Link Prediction and Random forest.

Area/Stream: Computing Technologies, Data Sciences / Data visualization / Other

Published in: IIP Series

Volume: 3, **Month:**May,**Year:**2024

Page No.: 23-35

e-ISBN: 978-93-6252-341-9

DOI/Link: https://www.doi.org/10.58532/V3BACT5P2CH1

Abstract:

Most Machine Learning models reply on learning the latent representation of vertices (nodes) in a large comp Network representation focuses on various tasks such as link prediction, community detection and node cla presents a comprehensive study on the various techniques applied in the latent representation of vertices i new method is proposed to overcome the challenges faced while capturing the structural information in networks. The proposed method has gained its ability to assess the performance based on the robustness, scalability. DeepWalk, Node2vec, GraphSAGE are the existing algorithms used for the comparative analysis. We analyze the performance of these methods by leveraging the benefits, challenges and the application area using various parameters. Random Forest classifier is used fo in the network. The evaluation metric used for node classification includes F1 score. The experimental analysis using the face book network provides an improved result giving the valuable insights on the strengths and weaknesses of the algorithms.

Cite this: *E. Chandra Blessie, K. Anandan, Sandhya Sharma,"A COMPREHENSIVE STUDY ON NODE CLASSIFICATION BY LATENT REPRESENTATION LEARNING METHODS IN NETWORK ANALYSIS", Futuristic Trends in Computing Technologies and Data Sciences Volume 3 Book 5,IIP Series, Volume 3, May, 2024, Page no.23-35, e-ISBN: 978-93-6252-341-9, DOI/Link: https://www.doi.org/10.58532/V3BACT5P2CH1*

Chapter

Analysing the Application of a Smart City in Big Data Using K-Means Clustering Algorithm

By V. Kavitha (/search?contributorName=V. Kavitha&contributorRole=author&redirectFromPDP=true&context=ubx), B. Sundaravadivazhagan (/search?contributorName=B. Sundaravadivazhagan&contributorRole=author&redirectFromPDP=true&context=ubx), R. Karthikeyan (/search?contributorName=R. Karthikeyan&contributorRole=author&redirectFromPDP=true&context=ubx), P. Hemashree (/search?contributorName=P. Hemashree&contributorRole=author&redirectFromPDP=true&context=ubx)

Book Handbook of Artificial Intelligence for Smart City Development (https://www.taylorfrancis.com/books/edit/10.1201/9781003225317/handbook-artificial-intelligence-smart-city-development-sandhya-makkar-gobinath-ravindran-ripon-kumar-chakrabortty-arindam-pal)

Edition	1st Edition
First Published	2024
Imprint	CRC Press
Pages	16
eBook ISBN	9781003225317

ABSTRACT

< Previous Chapter (chapters/edit/10.1201/9781003225317-8/innovation-management-context-smart-cities-digital-transformation-pankaj-tiwari-pooja-ahuja-gobinath-ravindran-seyed-jalaleddin-mousavirad?context=ubx)
Next Chapter > (chapters/edit/10.1201/9781003225317-10/artificial-intelligence-smart-city-development-brics-economies-roli-raghuvanshi-tanushree-sharma-ravinder-rena-rashmi-rai?context=ubx)

Machine Learning Approaches in Blockchain Technology-Based IoT Security: An Investigation on Current Developments and Open Challenges

| Chapter | First Online: 13 February 2024

| pp 107–130 | Cite this chapter

Blockchain Transformations

P. Hemashree, V. Kavitha, S. B. Mahalakshmi, K. Praveena & R. Tarunika

Part of the book series: Signals and Communication Technology ((SCT))

Abstract

In recent times, the implementation of blockchain technology has gained wide popularity in various applications such as healthcare, Internet of Things (IoT), and business, due to its critical security features. However, the rapid advancement of Internet of Things (IoT)

Stormy Minds and the Long-Term Mental Health Impact of Climate-Linked Natural Disasters

Rajesh Kanna Rajendran (/affiliate/rajesh-kanna-rajendran/467024/), T. Mohana Priya (/affiliate/t-mohanapriya/467025/), Deepa V. Jose (/affiliate/deepa-v-jose/467026/), G. Vennira Selvi (/affiliate/g-venniraselvi/467027/), S. Poorana Senthilkumar (/affiliate/s-pooranasenthilkumar/467028/), S. B. Mahalakshmi

Source Title: The Climate Change Crisis and Its Impact on Mental Health (/book/climate-change-crisis-its-impact/335121)

Pages: 11
DOI: 10.4018/979-8-3693-3272-6.ch001

Abstract

This chapter delves into the enduring psychological ramifications stemming from climate-linked natural disasters, encapsulated in the term “Stormy Minds.” As our planet grapples with an escalating frequency of such events, understanding the protracted effects on mental health becomes imperative. This abstract provides an insightful overview of the research, focusing on the intricate interplay between climate-induced disasters and the long-term well-being of individuals. Drawing on interdisciplinary perspectives, the study explores the psychological dimensions of enduring stress, anxiety, and trauma caused by these disasters. By assessing and documenting the persistent mental health impact, the research aims to contribute valuable insights for policymakers, mental health professionals, and communities striving to build resilience in the face of an increasingly turbulent climate.

Chapter Preview

Top

Background Work

Climate change has emerged as a global concern, reshaping weather patterns and intensifying the occurrence of natural disasters (Diffenbaugh & Scherer, 2011; IPCC, 2012). A significant aspect of this phenomenon is its potential to exacerbate mental health issues, particularly evident in the aftermath of extreme weather events (Smith & Doe, 2018; Van Susteren & Al-Delaimy, 2020). Recent literature underscores the intersection between climate change and mental health, shedding light on the adverse psychological outcomes linked to natural disasters such as severe thunderstorms, hurricanes, and heatwaves (Cianconi et al., 2015; Rocque & Beaudoin, 2021). Studies highlight the enduring mental health impacts of climate-linked disasters, with unprecedented heatwaves in the 21st century correlating with heightened psychological distress among affected populations (Diffenbaugh & Scherer, 2011; Christidis et al., 2014).

The physical and environmental transformations induced by climate extremes can compound mental health challenges, fostering a sense of loss, displacement, and uncertainty (Seneviratne et al., 2012; Trenberth, 2012). Moreover, repeated exposure to extreme events can precipitate chronic stress and psychological trauma (Trenberth et al., 2015). Beyond individual well-being, climate-linked disasters strain healthcare systems and resources, impeding access to mental health services, Efforts to address the mental health impacts of climate change must prioritize vulnerable populations, including children, the elderly, and individuals with pre-existing mental health conditions (Haines et al., 2006; Watts et al., 2015; Patz et al., 2014). This necessitates interdisciplinary collaboration and policy interventions focused on mitigating climate risks, enhancing resilience, and ensuring robust mental health support for affected communities (IPCC, 2012; WHO, 2013; Steffen et al., 2011; Jentsch & White, 2019).

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Lecture Notes in Networks and Systems, pages 375-385

Recuperating Image Captioning with Genetic Algorithm and Red Deer Optimization: A Comparative Study

P. Hemashree[1], S. B. Mahalakshmi[1], E. Chandra Blessie[1], V. R. Kavitha[2], P. Jayasree[3]

Hide authors affiliations

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Publication type: Book Chapter **Publication date**: 2024-02-24

Springer Nature

Journal: Lecture Notes in Networks and Systems

Quartile SCImago Q4

Quartile WOS —

Impact factor: —

ISSN: 23673370, 23673389

DOI: 10.1007/978-981-99-7814-4_30 Copy DOI

Abstract

Image captioning, a research domain of Artificial Intelligence, combines Computer Vision (CV) and Natural Language Processing (NLP) to spawn descriptive captions for images. This manuscript focuses on enhancing image captioning performance using the Flickr8k dataset through the application of two optimization techniques: Red Deer Optimization (RDO) and Genetic Algorithm (GA). These optimization algorithms are employed to progress the

Chapter

Node Density and Attraction Detection Method (NDAD) for Community Detection in Complex Network

Mar 2024
DOI: 10.1007/978-981-99-9518-9_35
In book: Advances in Data-Driven Computing and Intelligent Systems
Lab: I. S. Tarun Kumar's Lab

E Chandra Blessie · P. Hemashree · Mahalakshmi S B · Show all 5 authors · I. S. Tarun Kumar

Abstract

Community detection plays a vital role in recent research in the analysis of complex network structures. It aims at identifying the node communities with high connectivity. The current research direction finds it a challenging work to accurately detect and split the community in a very large-scale complex network. In this paper, a new systematic way of approach is proposed based on the node density and the internode attraction. The proposed Node Density and Attraction Detection (NDAD) algorithm uses a degree of the nodes and node density to divide the network into communities with similar nodes. Also, the attraction between nodes is calculated using the attraction method. The resultant communities provide valuable insight into the network. The performance evaluation of the node density method and attraction-based method was done by comparing them with the existing algorithms. The network used for the analysis is the Dolphin network. The findings of this analysis

Hemashree P

Enhancing Image Classification: A Metaheuristic-Driven Approach

Authors: P Hemashree, M Rohan, T Kalanithi, G Dhinesh, Marrynal S Eastaff

Publication date: 2023/9/4

Book: Congress on Intelligent Systems

Pages: 389-401

Publisher: Springer Nature Singapore

Description: Image classification plays an important role in many domains, ranging from healthcare to autonomous systems. Gaining high accuracy and optimal performance in image classification tasks profoundly relies on fine-tuning the hyperparameters and architecture configurations of Convolutional Neural Networks (CNNs). In the current study, we propose a metaheuristic-driven technique to optimize and adjust the hyperparameters and CNN architectural configurations binding the capabilities of Genetic Algorithm (GA) and Particle Swarm Optimization (PSO). By using the search capabilities of GA and PSO, our method automates the process of detecting optimal settings, removing the need for manual trial and error. The GA and PSO algorithms permit concurrent exploration of the hyperparameter space and architectural choices of the CNN model. Through the experiments on benchmark datasets, we establish the efficacy …

Chapter

Heartcare Assistance System

A Machine Learning-Based Cardiovascular Risk Monitoring Tool (CRMT)

By A. Kannammal (/search?contributorName=A. Kannammal&contributorRole=author&redirectFromPDP=true&context=ubx), E. Chandra Blessie (/search?contributorName=E. Chandra Blessie&contributorRole=author&redirectFromPDP=true&context=ubx), S. Barath Vignesh (/search?contributorName=S. Barath Vignesh&contributorRole=author&redirectFromPDP=true&context=ubx), P. Kanishk (/search?contributorName=P. Kanishk&contributorRole=author&redirectFromPDP=true&context=ubx)

Book Handbook of AI-Based Models in Healthcare and Medicine (https://www.taylorfrancis.com/books/mono/10.1201/9781003363361/handbook-ai-based-models-healthcare-medicine?refId=2768cef5-9a24-455e-9725-62150e080634&context=ubx)

Edition	1st Edition
First Published	2024
Imprint	CRC Press
Pages	28
eBook ISBN	9781003363361

ABSTRACT

< Previous Chapter (chapters/edit/10.1201/9781003363361-13/machine-learning-techniques-ecg-data-analysis-medical-applications-daphin-lilda-jayaparvathy?context=ubx)
Next Chapter > (chapters/edit/10.1201/9781003363361-15/parameter-estimation-real-time-ncs-signal-acquired-using-designed-neurostimulator-develop-microcontroller-based-healthcare-support-system-amarprit-singh-lachit-dutta-anil-hazarika-champak-talukdar-manabendra-bhuyan?context=ubx)

Quantifying the Impacts of Artificial Intelligence Implementations in Marketing

Subhashini Durai (/affiliate/subhashini-durai/460065/), Geetha Manoharan (/affiliate/geetha-manoharan/441315/), T. Sathya Priya (/affiliate/t-sathya-priya/460066/), R. Jayanthi (/affiliate/r-jayanthi/460067/), Abdul Razak (/affiliate/abdul-razak/460068/), Sunitha Purushottam Ashtikar (/affiliate/sunitha-purushottam-ashtikar/441318/)

Source Title: Smart and Sustainable Interactive Marketing (/book/smart-sustainable-interactive-marketing/327457)

Pages: 25

DOI: 10.4018/979-8-3693-1339-8.ch008

Abstract

AI will personalize marketing. Analysis of client behavior and preferences customizes product and service suggestions. AI-powered CRM solutions can automate customer service, help customers, and boost satisfaction. AI improves marketing targeting. Technology can improve client behavior targeting. AI will also impact digital marketing. Personalization boosts client engagement and sales. Virtual assistants and chat bots will increase marketing. Apps can swiftly answer customer questions, improve service, boost satisfaction, and develop brand loyalty. AI can enhance price by studying market trends, competition, and customer behaviour. Machine learning algorithms help organizations set rates, increasing sales and profit. Marketers may create more engaging content with AI. AI can analyze client data and behavior to determine which content performs best for target demographics, improving content marketing. AI marketing will develop in the future. Companies will benefit from AI-powered, tailored, and data-driven marketing that boosts customer engagement, loyalty, and revenue.

Chapter Preview

Top

Artificial Intelligence

Artificial intelligence in computer science creates machines that can perform human tasks.. Many skills include learning, problem-solving, thinking, knowing natural language, and perceiving. As technology has gotten better, artificial intelligence (AI) has become more common in all fields, including marketing.AI is roughly classified into two types:

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வாழ்வில் உயர இருக்கும் ஒவ்வொரு மாணவர்கள் கையிலும் இருக்கவேண்டிய கணித தூண்டுகோலாக "ஏன்? எதற்கு? எப்படி? இப்படிக்கு கணிதம் பாகம் 2" அமைத்துள்ளது என்பதினை என்னால் உறுதியாக கூற முடியும். படிக்க, பரிசளிக்க மற்றும் பகிர பயனுள்ள புத்தகமாக இந்நூல் அமைத்துள்ளது.

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Enhanced typesetting : Enabled
Word Wise : Not Enabled
Print length : 163 pages

Human Resource Management and the Rollout of Industry 4.0: Investigating the Impact of Artificial Intelligence

Subhashini Durai, Geetha Manoharan (/affiliate/geetha-manoharan/441315/), T. Sathya Priya (/affiliate/t-sathya-priya/460066/), R. Jayanthi (/affiliate/r-jayanthi/460067/), Abdul Razak (/affiliate/abdul-razak/460068/), Sunitha Purushottam Ashtikar (/affiliate/sunitha-purushottam-ashtikar/441318/)

Source Title: Cognitive Behavioral Neuroscience in Organizational Settings (/book/cognitive-behavioral-neuroscience-organizational-settings/330537)

Pages: 26

DOI: 10.4018/979-8-3693-1858-4.ch008

Abstract

Today, HR lending helps technology develop quickly by automating manual work. Future HR will be led by AI. AI can transform your HR experience. AI will automate HRM tasks including recruitment, selection, L&D, and performance management. AI in HR would eliminate 85% of manual work. Future AI will be increasingly crucial. AI will boost employee productivity by improving decision-making and strategic planning. Robotics innovation, which includes AI and the internet of things, has created several professional opportunities. Industry 4.0 may improve precision, efficiency, and flexibility. Industry 4.0 involves several adjustments, including HR. Industry 4.0 makes HR competence more important and gives organizations an edge. HR should be more cautious and flexible to meet challenges. The study examines AI's role in HR digitization and Industry 4.0 practices. For this, HR specialists from IT, manufacturing, and administration are interviewed on five AI applications in HR capabilities and three HR readiness factors.

Chapter Preview

Top

Introduction To The Chapter

The concept of Industry 4.0 has been introduced during the past decade with the aim of enhancing the industrial sector and addressing its limitations. Now, the advent of Industry 5.0 has emerged as the next phase in this progression. The implementation of smart factories has been observed to contribute to the enhancement of corporate productivity. Consequently, it can be argued that the advent of Industry 4.0 is not without its restrictions. This chapter presents a comprehensive analysis of the benefits and limits associated with industry 5.0, along with a discussion on potential avenues for further research in this field. Industry 5.0 is a paradigm shift that is poised to bring about significant changes. It is characterized by a decreased reliance on technology and an increased recognition of the potential for advancement through collaborative efforts between humans and machines. The utilization of personalized products in the context of the industrial revolution is contributing to the enhancement of consumer happiness. In contemporary business, the integration of advanced technologies necessitates the adoption of Industry 5.0 in order to attain a competitive edge and foster economic expansion for manufacturing enterprises. This article seeks to examine the potential uses of Industry 5.0. Initially, a discourse ensues on the delineations of industry 5.0 and the requisite sophisticated technology integral to this paradigm shift in the industrial sector. Furthermore, there is ongoing discourse regarding the potential applications facilitated by industry 5.0, including several sectors such as healthcare, supply chain management, manufacturing production, and cloud manufacturing, among others. This study examines several technologies, namely big data analytics, Internet of Things (IoT), collaborative robotics, Blockchain, digital twins, and future 6G systems. This study also encompasses the challenges and concerns investigated in this work with regards to understanding the issues arising from the interaction between organizations, robots, and individuals in the assembly line.

The advent of the first industrial revolution, also referred to as Industry 1.0, in the 18th century, brought about a significant transformation characterized by the introduction of mechanized production methods and procedures. This era witnessed the emergence of machines as the primary means of manufacturing various goods. The Industrial Revolution originated in England in 1760 and then spread to the United States towards the conclusion of the eighteenth century. The advent of Industry 1.0 brought about a significant transition from a handicraft-based economy to one characterized by the dominance of technology. This transformation had a profound impact on various sectors including mining, textile production, agriculture, glass manufacturing, and others. The period between

Chapter

Effect of Processing on Natural Fibers for Composite Manufacturing

By N. Vasugi (/search?contributorName=N. Vasugi&contributorRole=author&redirectFromPDP=true&context=ubx), R. Sunitha (/search?contributorName=R. Sunitha&contributorRole=author&redirectFromPDP=true&context=ubx), S. Amsamani (/search?contributorName=S. Amsamani&contributorRole=author&redirectFromPDP=true&context=ubx), C. Balaji Ayyanar (/search?contributorName=C. Balaji Ayyanar&contributorRole=author&redirectFromPDP=true&context=ubx)

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Edition	1st Edition
First Published	2023
Imprint	CRC Press
Pages	11
eBook ISBN	9781003272625

ABSTRACT

< Previous Chapter (chapters/edit/10.1201/9781003272625-2/fabrication-characterization-green-composite-shashikant-verma-brijesh-gangil-ashutosh-gupta-jitendra-verma-vishal-arya?context=ubx)
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T-BOT: Revolutionizing Theatrical Bot with AI-Powered Automation

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Abstract

Purpose: The theatrical mobile bot prototype is a ground-breaking solution aimed at addressing the challenges associated with conventional food delivery systems at theatre. This report provides a comprehensive overview of the prototype, highlighting its functionality, and potential benefits. In today's urban environments, the serving of foods through human is not much effective and labour cost may shoot up if there are multiple screens in a single theatre. The purpose of this report is to provide a

Smart Spectacles: A Device To Make Our Life Easier

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Abstract

Purpose - Among the recent inventions, smart glass is one of the wearable devices that can be switchable to a usual glass that can handle a wide range of computing activities that humans cannot perform. Smart glasses are used to be one of the modern computing devices that combines humans and machines with the help of information and interaction. It is made up of an optical head-mounted display or embedded wireless glasses with invisible heads-up display. It can be used be used in the medical,

Enhancing Soil Microbial Activity through Indian Traditional Farming Methods: Insights on Sustainable Agriculture

Akshay Kumar K
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Email: 71762108001@cit.edu.in
Valliappan Raman
Department of AI and DS, Coimbatore Institute of Technology, Coimbatore, India
Email: valliappan@cit.edu.in

Purpose - The modern practice of intensive cropping with artificial fertilizers has led to a decline in soil microbial life This paper examines the effectiveness of Indian traditional farming methods in improving soil microbial activity. By borrowing from traditional practices, we can slow this process of soil degradation.

Design/methodology/approach - An experiment was conducted using dry red soil, and traditional Indian methods such as mulching, cover cropping with Indian cereals, and bird guano fertilizing were employed.

Findings and Conclusion- An increase in the presence of earthworms, springtails, and isopods in the soil followed by improved fluffiness and water-holding capacity, resulting in lusher plant growth.

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9 788196 902162

PUBLISHER:

SRI KRISHNA ARTS AND SCIENCE COLLEGE

Kuniamuthur Post, Coimbatore - 641 008.

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Published by:	Shanlax Publications, Vasantha Nagar, Madurai – 625003, Tamil Nadu, India
Publisher's Address:	61, 66 T.P.K. Main Road, Vasantha Nagar, Madurai – 625003, Tamil Nadu, India
Printer's Details:	Shanlax Press, 66 T.P.K. Main Road, Vasantha Nagar, Madurai – 625003, Tamil Nadu, India
Edition Details (I,II,III):	I
ISBN:	978-81-19337-51-4
Month & Year:	January, 2024
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Pages:	270
Price:	₹580/-

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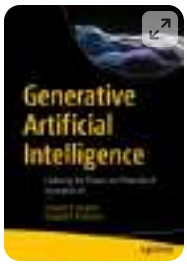

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Overview

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Explains generative AI, generative text, and visual and audio models
Covers building enterprise-grade applications with tools to leverage generative AI
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Chapter

Mechanical Characterization of Labeo Catla and Laevistrombus

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Edition	1st Edition
First Published	2023
Imprint	CRC Press
Pages	6
eBook ISBN	9781003272625

ABSTRACT

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CHAPTER 2

IoT-enabled real time student health monitoring and interactive system using LoRa

P Muthu Subramanian and A Rajeswari

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Abstract

Chapter 2 proposes an Internet of Things-enabled real-time student health monitoring and interactive system based on LoRa.

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| pp 637–649 | Cite this conference paper

Proceedings of Fourth Doctoral Symposium on Computational Intelligence

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Satheeshkumar Palanisamy, T. Nivethitha, Mazin R. Alhameed, A. Udhayakumar & Naseer Ali Hussien

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| Conference paper | First Online: 23 February 2023
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Proceedings of Third International Conference on Sustainable Expert Systems

G. Puvaneswari, M. Ramya, R. Kalaivani & S. Bavithra Ganesh

Part of the book series: Lecture Notes in Networks and Systems ((LNNS,volume 587))

Abstract

Security is the most pre-eminent and concerning issue nowadays. People want to protect their homes from unauthorized intrusion or trespassers. The conventional lock and key system provides less security. The keys can be easily duplicated, lost and locks could be

Research Highlights in Mathematics and Computer Science Vol. 9

(https://stm.bookpi.org/RHMCS-V9/index)

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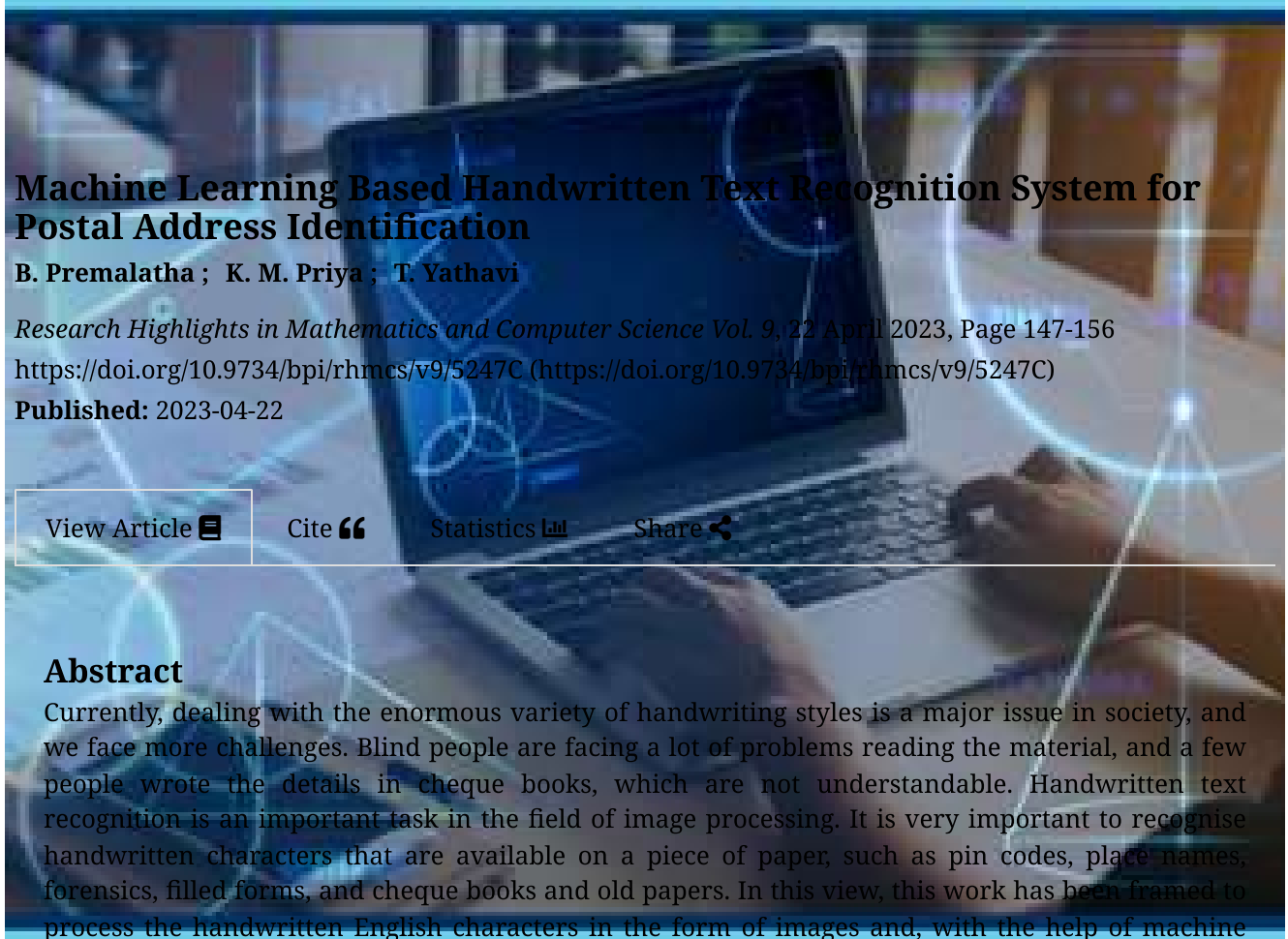
Vol. 9

Edited by Prof. Belkacem Chaouchi



Machine Learning Based Handwritten Text Recognition System for Postal Address Identification

B. Premalatha ; K. M. Priya ; T. Yathavi

Research Highlights in Mathematics and Computer Science Vol. 9, 22 April 2023, Page 147-156
https://doi.org/10.9734/bpi/rhmcs/v9/5247C (https://doi.org/10.9734/bpi/rhmcs/v9/5247C)
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Abstract

Currently, dealing with the enormous variety of handwriting styles is a major issue in society, and we face more challenges. Blind people are facing a lot of problems reading the material, and a few people wrote the details in cheque books, which are not understandable. Handwritten text recognition is an important task in the field of image processing. It is very important to recognise handwritten characters that are available on a piece of paper, such as pin codes, place names, forensics, filled forms, and cheque books and old papers. In this view, this work has been framed to process the handwritten English characters in the form of images and, with the help of machine learning algorithms, handwritten text was predicted. This work will be very useful even for village people who are struggling to read the text in the document. Using the real time data set that was collected, simulation was done using machine learning algorithms, and the results were discussed.

Keywords: Handwritten text recognition; machine learning; principal component analysis; segmentation and k-nearest neighbor

(https://stm.bookpi.org/RHMCS-V9/issue/view/1041)

An Enhanced Deep Learning Technique for Crack Identification in Composite Materials

| Conference paper | First Online: 22 June 2023

| pp 337–348 | Cite this conference paper

Advances in Data-driven Computing and Intelligent Systems

Saveeth Ramanathan, Uma Maheswari Sankareswaran & Prabhavathy Mohanraj

Part of the book series: Lecture Notes in Networks and Systems ((LNNS,volume 653))

Abstract

Composite material consists of more than one substance, which inherit the superior properties of the constituent's elements for light weight and tensile strength. The identification of cracks in composite material at an earlier stage reduces the cost and effort. Deep learning is a complex model in machine learning to extract significant features from a

DOI: 10.1109/ICCCI56745.2023.10128354 • Corpus ID: 258869184

One-Dimensional Convolutional Neural Network and Long Short-Te Memory Convolutional Neural Network for 12-Lead ECG Arrhythm Detection

S.V.Evangelin Sonia, Dr.R.Nedunchezhian, Dr.M.Rajalakhmi •

Published in International Conference on... 23 January 2023 • Medicine, Computer Science

TLDR The results of a study designed to detect cardiac arrhythmias in 12-lead ECG signals of varying lengths, as collected as part of the PhysioNet/Computing in Cardiology Challenge are provided. Expand

Figures from this paper

Mining Frequent Patterns from Temporal Dataset Using Backtracking Search Tree of GenMax Algorithm

| Conference paper | First Online: 29 November 2022

| pp 105–117 | Cite this conference paper

Human-Centric Smart Computing

J. Dhakshayani, S. Sivasathya, S. Sharmiladevi & S. LourduMarie Sophie

Part of the book series: Smart Innovation, Systems and Technologies ((SIST,volume 316))

Abstract

In recent days, many real-life applications incorporate databases that involve time factors to be considered for any decision-making. The knowledge discovery deals with the mining of frequent and valuable patterns from massive databases as they are the critical step in

Evolutionary Discriminative Deep Belief Network Based Diabetic Retinopathy Classification

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| pp 335–345 | Cite this conference paper

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S. Saranya Rubini ✉, K. Sathya, R. Saveeth & M. Prabhavathy

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Authors

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Corresponding Author

Vallaippan Raman

Available Online 10 May 2023.

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Chapter

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Edition	1st Edition
First Published	2023
Imprint	Apple Academic Press
Pages	6
eBook ISBN	9781003314851

ABSTRACT

< Previous Chapter (chapters/edit/10.1201/9781003314851-4/legendre-neural-network-method-solving-nonlinear-singular-systems-murugesh-veerasamy-subash-chandra-bose-jaganathan-chandramohan-dhasarathan-azath-mubarakali-velmani-ramasamy-kalpana-ninoslav-marina?context=ubx)
Next Chapter > (chapters/edit/10.1201/9781003314851-6/hci-designing-smart-tool-analyzing-human-brain-signals-operating-smart-home-devices-tamilselvi-geetha-anitha-dhanraj-mohanavel?context=ubx)

Quantum Concepts

| Chapter | First Online: 30 March 2023

| pp 99–113 | Cite this chapter

Quantum Computing: A Shift from Bits to Qubits

S. Manjula Gandhi, S. Gayathri Devi, K. Sathya, K. H. Vani & K. Kiruthika

Part of the book series: Studies in Computational Intelligence ((SCI,volume 1085))

Abstract

This chapter will help in understanding the concepts of representing quantum states, superposition states, quantum gates, quantum entanglement, and various output visualizations, along with hands-on code using IBM's Quantum Experience Qiskit, an open-source framework to write and execute quantum programs. Classical computers work on bits whereas quantum computers work on quantum bits or qubits. A state in a qubit can be represented as $|0\rangle$, $|1\rangle$ or both in $|0\rangle$ and $|1\rangle$ at the same time, called a superposition state.

Fundamentals of Data Structures: Stacks, Queues, Linked Lists, and Graphs

D. Varshaa, A. Keerthana Devi (/affiliate/a-keerthanadevi/446491/), M. Sujithra (/affiliate/m-sujithra/446492/)

Source Title: Advanced Applications of Python Data Structures and Algorithms (/book/advanced-applications-python-data-structures/306190)

Pages: 34
DOI: 10.4018/978-1-6684-7100-5.ch001

Abstract

Computer science encompasses various subfields, with data structures and algorithms being important. This chapter aims to enhance proficiency in constructing and analyzing data structures effectively. Studying data structures equips students with the skills to solve real-world problems using suitable structures. The study of data structures offers diverse programming techniques for complex problems yet introduces challenges due to intricate complexities that reshape program architecture. Covering all aspects in a single semester is impractical, as data structures receive extensive attention in graduate, upper-division, and lower-division programs. This text is an introductory resource for the stack, queue, linked list, graph, trees, searching, and sorting algorithms. It also offers insights into their Python implementation and its complexities, applications, and sample code.

Chapter Preview

Top

Stack

A stack is a linear data structure that embodies the Last-In-First-Out (LIFO) principle (Carullo, 2020). Under this principle, the item most recently added to the stack is the first to be removed. The stack can be likened to a collection of plates, wherein the plate most recently placed on top is the one to be taken when selecting. Moreover, accessing the plate at the bottom necessitates removing all the plates above it. The stack data structure operates similarly, adhering to this analogy.

Operations On Stack

The following are vital operations associated with a stack data structure:

- **Push:** This operation involves adding an element to the top of the stack.
- **Pop:** This operation entails removing an element from the top of the stack.
- **IsEmpty:** This operation allows checking whether the stack is empty or not.
- **IsFull:** This operation verifies whether the stack has reached its maximum capacity.
- **Peek:** This operation permits retrieving the value of the top element without removing it.

Stack Implementation Using Python's Built-in List

Python's inherent data structure, the list, can be employed as a stack by utilizing specific methods. In place of the conventional “push()” operation, the “append()” method is utilized to add elements to the top of the stack, ensuring adherence to the Last-In-First-Out (LIFO) principle. Similarly, the “pop()” method facilitates the removal of elements from the stack in the prescribed LIFO order. The stack implementation using Python is given in Figure 1.

Figure 1. Stack Implementation using Python
978-1-6684-7100-5.ch001.f01(https://igiprodst.blob.core.windows.net:443/source-content/9781668471005_306190/978-1-6684-7100-5.ch001.f01.png?sv=2015-12-11&sr=c&sig=x6IIQ1NtF0Lh1V0ceX8x%2FXltUoLB3xrHV9TpzH0jd40%3D&se=2023-08-05T19%3A20%3A58Z&sp=r)

Exploratory Data Analysis in Python

R. Sruthi, G. B. Anuvarshini, M. Sujithra (/affiliate/m-sujithra/446492/)

Source Title: Advanced Applications of Python Data Structures and Algorithms (/book/advanced-applications-python-data-structures/306190)

Pages: 24
DOI: 10.4018/978-1-6684-7100-5.ch006

Abstract

Data science is extremely important because of the immense value of data. Python provides extensive library support for data science and analytics, which has functions, tools, and methods to manage and analyze data. Python Libraries are used for exploratory data analysis. Libraries in Python such as Numpy, Pandas, Matplotlib, SciPy, etc. are used for the same. Data visualization's major objective is to make it simpler to spot patterns, trends, and outliers in big data sets. One of the processes in the data science process is data visualization, which asserts that after data has been gathered, processed, and modelled, it must be represented to draw conclusions. As a result, it is crucial to have systems in place for managing and regulating the quality of corporate data, metadata, and data sources. So, this chapter focuses on the libraries used in Python, their properties, functions, how few data structures are related to them, and a detailed explanation about their purpose serving as a better foundation for learning them.

Chapter Preview

Top

Python Libraries To Perform Eda

Numpy

NumPy is a powerful Python library for efficient array manipulation and numerical computing (Harris et al., 2022). Originally known as “Numeric,” it evolved into NumPy with enhanced capabilities. Its optimized C programming and extensive functions make it the standard for array computation, supporting tasks like linear algebra and Fourier transformations. With a vibrant community and easy accessibility, NumPy is widely used in data analysis, machine learning, and more.

Pandas

Pandas is a Python library that efficiently manipulates diverse data, collaborating seamlessly with other data science libraries like NumPy, Matplotlib, SciPy, and scikit-learn. It plays a vital role in machine learning by accurately exploring, cleaning, transforming, and visualizing data. Jupyter notebook facilitates easy execution of Pandas programs, enabling data visualization and analysis. Pandas expand Python's data analysis capabilities with essential procedures: data loading, manipulation, preparation, modeling, and analysis (Ateeq & Afzal, 2023).

SciPy

SciPy is a powerful Python library that builds upon NumPy, providing multidimensional arrays for scientific and mathematical problem-solving (Khandare et al., 2023). It eliminates the need for separate NumPy imports and is widely used in Machine Learning, particularly for image processing. With modules for optimization, linear algebra, parallel programming, and integration, SciPy is favored by data scientists, analysts, and engineers, enabling efficient numerical computations and faster data processing with enhanced expressiveness compared to other tools and libraries.

Intelligent Manufacturing and Energy Sustainability

Proceedings of ICIMES 2022

| Conference proceedings | © 2023

Overview

Editors: Amaranadha Reddy Manchuri, Deepak Marla, V. Vasudeva Rao

Presents research works in the field of intelligent manufacturing and energy sustainability

Gathers the outcomes of the ICIMES 2022, held in Hyderabad, India, during June 2022

Offers a reference guide for researchers and practitioners in academia and industry

Part of the book series: Smart Innovation, Systems and Technologies (SIST, volume 334)

About this book

This book includes best selected, high-quality research papers presented at the International Conference on Intelligent Manufacturing and Energy Sustainability (ICIMES 2022) held at the Department of Mechanical Engineering, Malla Reddy College of Engineering & Technology (MRCET), Maisammaguda, Hyderabad, India, during June 24–25, 2022. It covers topics in the areas of automation, manufacturing technology, and energy sustainability and also includes original works in the intelligent systems, manufacturing, mechanical, electrical, aeronautical, materials, automobile, bioenergy, and energy sustainability.

Keywords

Smart Manufacturing | Hybrid Machining | Intelligent Transport Systems | Automation and Robotics | Artificial Intelligence | ICIMES 2022 Proceedings

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Table of contents (60 papers)

Chapter 19

Classification Models for Breast Cancer Detection

B. Varsha, P. Sneka, A. Tanuja, J. Shana

Book Editor(s):A. Chitra, V. Indragandhi, W. Razia Sultana

First published: 11 May 2023
https://doi.org/10.1002/9781394167524.ch19

Summary

In the modern era, breast cancer is one of the most common cancers worldwide. In 2020, nearly 2.3 million women were diagnosed with breast cancer (one in every eight women). The goal of this study is to compare three machine learning models, namely, logistic regression, decision tree, and random forest classifier which have been implemented for breast cancer. The patient's dataset was collected; the dataset contained 569 rows of data, that is 569 patients' data and 33 columns which are the features based on the classification. The dataset consists of attributes of the nuclei measurements which consist of texture, radius, perimeter, area, concavity, etc. In this breast cancer classification, the cancer is mainly classified based on the type of cancer cells, that is either benign or malignant (already given in the dataset as patients having cancer or not). Benign are non-cancerous tumour cells which do not invade neighbouring cells, whereas malignant are the cancerous cells causing tumours which invade neighbouring cells. The split data consists of 25% of testing data and 75% of training data. Machine learning models such as logistic regression, random forest classifier and decision tree classifier models are implemented. The results showed that random forest classifier has a comparatively higher accuracy with 98%.

References

Sasikala , S , Appavu , S . and Geetha , S . " A novel feature selection technique for improved survivability diagnosis of breast cancer ", *Procedia Computer Science* , Vol. **50** , 2015 .

Google Scholar

A Deep Learning Method for Autism Spectrum Disorder

| Conference paper | First Online: 21 February 2024

| pp 1–9 | Cite this conference paper

Computational Intelligence in Machine Learning

(ICCIML 2022)

Bindu George, E. Chandra Blessie & K. R. Resmi

Part of the book series: Lecture Notes in Electrical Engineering ((LNEE,volume 1106))

Included in the following conference series:
International Conference on Computational Intelligence in Machine Learning

Abstract

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8119166892	978-8119166893	01/01/2023

Product details

Publisher : Pustaka Digital Media Pvt. Ltd.; 01/01/2023 edition (31 December 2022)
Language : Tamil
Perfect Paperback : 103 pages
ISBN-10 : 8119166892
ISBN-13 : 978-8119166893
Reading age : 12 years and up
Item Weight : 126 g
Dimensions : 22 x 14 x 0.5 cm
Country of Origin : India

Proceedings of ASEAN-Australian Engineering Congress (AAEC2022)

Engineering Solutions in the Age of Digital Disruption

| Conference proceedings | © 2023

Overview

Editors: Chung Siung Choo, Basil T. Wong, Khairul Hafiz Bin Sharkawi, Daniel Kong

Presents the proceedings of the ASEAN-Australian Engineering Congress (AAEC2022)

Includes papers written by leading experts covering the latest advances related to Fourth Industrial Revolution

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Part of the book series: Lecture Notes in Electrical Engineering (LNEE, volume 1072)

Included in the following conference series:

AAEC: ASEAN Australian Engineering Congress

Conference proceedings info: AAEC 2022.

About this book

This book presents the proceedings of the ASEAN-Australian Engineering Congress (AAEC2022), held as a virtual event, 13–15 July 2022 with the theme "Engineering Solutions in the Age of Digital Disruption". The book presents selected papers covering scientific research in the field of Engineering Computing, Network, Communication and Cybersecurity, Artificial Intelligence & Machine Learning, Materials Science & Manufacturing, Automation and Sensors, Smart Energy & Cities, Simulation & Optimisation and other Industry 4.0 related Technologies. The book appeals to researchers, academics, scientists, students, engineers and practitioners who are interested in the latest developments and applications related to addressing the Fourth Industrial Revolution (IR4.0).

Keywords

Industry 4.0 Artificial Intelligence Machine Learning Cybersecurity Automation Education 4.0 Network Communication Smart Cities Manufacturing Engineering Process Simulation

Table of contents (24 papers)

How Generative AI Is Transforming Medical Imaging: A Practical Guide

| Chapter | First Online: 06 March 2024

| pp 371–385 | Cite this chapter

Applications of Generative AI

Khaled ELKarazle, Valliappan Raman, Patrick Then & Caslon Chua

Abstract

Medical imaging is a crucial aspect of modern healthcare, as it enables the diagnosis and treatment of various diseases and conditions. However, developing and deploying AI models for medical imaging is challenging, due to the limited availability and quality of data, as well as the high complexity and diversity of imaging modalities and tasks. Generative AI models, such as variational autoencoders (VAEs), generative adversarial networks (GANs), and text-to-image diffusion models, offer a promising solution to these challenges, as they can generate realistic and diverse images from existing data or latent representations. In this

Document details - Optimal Control of Solar PV Fed EV Charging Station Using PSO Algorithm

2023 3rd International Conference on Advances in Electrical, Computing, Communication and Sustainable Technologies, ICAECT 2023

2023

3rd International Conference on Advances in Electrical, Computing, Communication and Sustainable Technologies, ICAECT 2023; Bhilai; India; 5 January 2023 through 6 January 2023; Category numberCFP23T24-ART; Code 188686

Optimal Control of Solar PV Fed EV Charging Station Using PSO Algorithm(Conference Paper)

Chandrasekaran, R., Karthikkumar, S., Sheela, A., Subramani, P., Aravindh, G., Rajkumar, P.

[a]Coimbatore Institute of Technology, Department of Electrical and Electronics Engineering, Tamil Nadu, Coimbatore, India
[b]Jai Shriram Engineering College, Department of Electrical and Electronics Engineering, Tamil Nadu, Tirupur, India
[c]Kongu Engineering College, Department of Electrical and Electronics Engineering, Tamil Nadu, Erode, India

View additional affiliations

Abstract

The modelling and simulation of a commercial DC rapid charging system powered by solar photovoltaic (PV) arrays are presented in this work. The active front end converter in the suggested solution uses buck-boost converters to charge the electric vehicle (EV) battery. The charging voltage is managed by the closed loop management of the buck boost converter. The simulation is carried out using the Matlab-Simulink tool, and the output results of the suggested model are compared for line and load regulations, in order to validate the proposed charging technique. © 2023 IEEE.

Author keywords

Buck-Boost converter | DC fast charging | Electric Vehicles | Lithium-ion batteries | PSO

Indexed keywords

Engineering controlled terms: Boost converter | Electric current regulators | Electric loads | Electric vehicles | Lithium-ion batteries | MATLAB | Solar power generation

Engineering uncontrolled terms: Buck/boost converters | Charging station | DC fast charging | Electric vehicle charging | Model and simulation | Optimal controls | PSO | PSO algorithms | Rapid charging | Solar photovoltaics

Engineering main heading: Buck-Boost converter

ISBN: 978-166549400-7
Source Type: Conference Proceeding
Original language: English
DOI: 10.1109/ICAECT57570.2023.10118201
Document Type: Conference Paper
Publisher: Institute of Electrical and Electronics Engineers Inc.

Document details - Implementation of FPGA Based MPPT Techniques for Grid-Connected PV System

Intelligent Automation and Soft Computing

Volume 35, Issue 2, 2023, Pages 1783-1798

Implementation of FPGA Based MPPT Techniques for Grid-Connected PV System(Article)(Open Access)

Eswara Rao, T., Elango, S.

Department of Electrical and Electronics Engineering, Coimbatore Institute of Technology, Coimbatore, India

Abstract

Global energy demand is growing rapidly owing to industrial growth and urbanization. Alternative energy sources are driven by limited reserves and rapid depletion of conventional energy sources (e.g., fossil fuels).Solar photovoltaic (PV), as a source of electricity, has grown in popularity over the last few decades because of their clean, noise-free, low-maintenance, and abundant availability of solar energy. There are two types of maximum power point tracking (MPPT) techniques: Classical and evolutionary algorithm-based techniques. Precise and less complex perturb and observe (P&O) and incremental conductance (INC) approaches are extensively employed among classical techniques. This study used a field-programmable gate array (FPGA)-based hardware arrangement for a grid-connected photovoltaic (PV) system. The PV panels, MPPT controllers, and battery management systems are all components of the proposed system. In the developed hardware prototype, various modes of operation of the grid-connected PV system were examined using P&O and incremental conductance MPPT approaches.

Author keywords

Battery | Boost converter | Grid connected PV system | Incremental MPPT | Perturb and observe (P&O)

ISSN: 10798587
DOI: 10.32604/iasc.2023.028835
Source Type: Journal
Document Type: Article
Original language: English
Publisher: Tech Science Press

Eswara Rao, T.; Department of Electrical and Electronics Engineering, Coimbatore Institute of Technology, Coimbatore, India;

SciVal Topic Prominence

Topic:

Prominence percentile:

Cited by 2 documents

Rao, T.E. , Guruvulunaidu, P. , Sura, S.R.

Implementation of MPPT Techniques to Improve the Reliability of PV-WIND Hybrid System

(2023) 2023 International Conference on Computational Intelligence, Networks and Security, ICCINS 2023

Yusof, N.F.M. , Ishak, D. , Zainuri, M.A.A.M.

Improved Control in Single Phase Inverter Grid-Tied PV System Using Modified PQ Theory

(2023) Intelligent Automation and Soft Computing

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Document details - IoT enabled Covid Standard Operating Procedure system

Proceedings of the 9th International Conference on Electrical Energy Systems, ICEES 2023

2023, Pages 609-612

9th International Conference on Electrical Energy Systems, ICEES 2023; Chennai; India; 23 March 2023 through 25 March 2023; Category numberCFP2385K-ART; Code 188394

IoT enabled Covid Standard Operating Procedure system(Conference Paper)

Geetha, S., Karthiga, M., Mary, A.T., Snega, V., Subhikshaa, R.

Coimbatore Institute of Technology, Electrical and Electronics Engineering, Coimbatore, India

Abstract

COVID-19, is caused by the transmission of SARS-CoV-2 through direct or indirect contact with infected people though respiratory droplets has transitioned from a pandemic to an endemic but is still regarded as active by WHO. Restrictions and lockdowns were lifted as the situation became endemic, but the previous measures had to be kept in place. By developing a module that includes temperature monitoring, face mask detection, a non-contact sanitizer dispenser, and door automation that operates based on the number of individuals inside a closed area in order to maintain social distance, our project aims to incorporate these precautions into our everyday language. As a part of making the new normal easily adaptable, we also introduce a webpagebased reservation system, which wm essentially display the current count and also help in reducing the waiting periods. © 2023 IEEE.

Author keywords

Arduino UNO | Covid 19 | DHT 11 | ESP32 camera | IoT | IR Sensor | Servo Motor MG90 | Slot booking

Indexed keywords

Engineering controlled terms: Internet of things

Engineering uncontrolled terms: Arduino UNO | Covid 19 | DHT 11 | ESP32 camera | IoT | IR sensor | Servo motor mg90 | Servo-motor | Slot booking | Standard operating procedures

Engineering main heading: Reservation systems

ISBN: 979-835034803-3
Source Type: Conference Proceeding
Original language: English

DOI: 10.1109/ICEES57979.2023.10110131
Document Type: Conference Paper
Volume Editors: Thiyagarajan V.,Muthu Selvan N.B.,Devesh Raj M.
Publisher: Institute of Electrical and Electronics Engineers Inc.

Document details - ENVIRONMENTAL PROTECTION THROUGH FIVE PHASE SUPPLY AND ITS DRIVE SYSTEM: A SUSTAINABLE APPROACH

Journal of Environmental Protection and Ecology

Volume 24, Issue 7, 2023, Pages 2467-2479

ENVIRONMENTAL PROTECTION THROUGH FIVE PHASE SUPPLY AND ITS DRIVE SYSTEM: A SUSTAINABLE APPROACH(Article)

Gobikannan, K., Elango, S., Gunasekaran, S., Sharmeela, C.

[a]Department of EEE, Anna University, Tamil Nadu, Chennai, 600 025, India
[b]Department of EEE, Coimbatore Institute of Technology, Tamil Nadu, Coimbatore, 641 014, India

Abstract

In the past decade, researchers have replaced conventional three-phase systems with higher-order phase supply systems. To compete in the modern machine world, it is necessary to take a revolution in the supply system at the load end. This paper introduces a five-phase supply system that includes a principle that correlates with a five-phase system and the conversion of the threephase to the five-phase power supply system. It was a deliberate phase and line voltage relationship for the star and pentagon. The different methods used to measure power in a five-phase system are illustrated. The proposed theoretical concept was verified using an FPGA-controlled five-phase induction motor (FPIM) with a novel EG switching sequence. The objective of this study is to derive the fundamental concepts of a five-phase system to understand the working principles of a highphase-order alternating asynchronous machine and special electrical machine drives. This research also highlights the novel switching sequence (EG) control of the FPIM drive, which reduces bearing current and improves the power factor and power quality in the grids. The environment gets less heat due to the five-phase supply and its drives compared to conventional three-phase systems and drives. The power quality in a local grid is improved, and the carbon monoxide emissions from IC engine vehicles are eliminated due to FPIM-driven electric vehicles.

Author keywords

five-phase power measurement | five-phase supply | magneto motive force | pentagon | star

Indexed keywords

GEOBASE Subject Index: electrical power | electronic equipment | machinery | power generation | sustainability

ISSN: 13115065
Source Type: Journal
Original language: English
Document Type: Article
Publisher: Scibulcom Ltd.

Document details - Grasshopper Optimized Tuning of Support Vector Regression for Day a Head Prognostic Problem

2023 IEEE International Conference on Integrated Circuits and Communication Systems, ICICACS 2023

2023

2023 IEEE International Conference on Integrated Circuits and Communication Systems, ICICACS 2023; Virtual, Online; India; 24 February 2023 through 25 February 2023; Category numberCFP23DH8-ART; Code 188071

Grasshopper Optimized Tuning of Support Vector Regression for Day a Head Prognostic Problem(Conference Paper)

Jeevakarunya, C., Manikandan, V., Karthick, C., Seenivasan, S., Nandhini, N.

[a]Coimbatore Institute of Technology, Affiliated to Anna University, Eee Department, Affiliated to Anna University Chennai, Coimbatore, India

[b]Dhaanish Ahamed Institute of Technology, Affiliated to Anna University, Chennai, Ece Department, Affiliated to Anna University Chennai, Coimbatore, India

Abstract

Recently, the scenario behind the power system operation and control is not even because of the fluctuating power demands. The ultimate reason for this fluctuation is climatic variables. It is highly recommended to identify the method which produces precise forecasting. This article brings an approach that utilizes Support Vector Regression and tuning parameters of Support vector using an enhanced Grasshopper optimization algorithm for predicting the future demand by analyzing the influence of weather parameters for a North East India data. The parameter tuning still improves the accuracy of SVR. Further the parameters that were tuned by GOA was examined, by giving it to a Support vector regression for a building energy consumption data on a JMP Pro 16 environment. © 2023 IEEE.

Author keywords

Grasshopper Optimization Algorithm | load forecasting | Support Vector Regression

Indexed keywords

Engineering controlled terms: Energy utilization | Optimization | Regression analysis | Vectors

Engineering uncontrolled terms: Climatic variables | Grasshopper optimization algorithm | Load forecasting | Optimization algorithms | Power demands | Power system operation and controls | Regression parameters | Support vector | Support vector regressions | Tuning parameter

Engineering main heading: Forecasting

Document details - Levy flight-particle swarm optimization-assisted BiLSTM + dropout deep learning model for short-term load forecasting

Neural Computing and Applications

Volume 35, Issue 3, January 2023, Pages 2679-2700

Levy flight-particle swarm optimization-assisted BiLSTM + dropout deep learning model for short-term load forecasting(Article)

Kiruthiga, D., Manikandan, V.

[a]Teaching Learning Centre, Coimbatore Institute of Technology, Coimbatore, India
[b]Department of Electrical and Electronics Engineering, Coimbatore Institute of Technology, Coimbatore, India

Abstract

This paper proposes a new optimized Deep Learning (DL) network design for time series load forecasting. At first, DL's hyper parameters are optimized using the Levy flight-particle swarm optimization (LF-PSO) technique; then, the optimized DL model is used for load prediction. Furthermore, the results are compared with the existing state-of-the-art techniques to show prediction accuracy. Experiment and measured values indicate that the proposed new DL model is highly efficient for load prediction. © 2022, The Author(s), under exclusive licence to Springer-Verlag London Ltd., part of Springer Nature.

Author keywords

BiLSTM | Deep learning | Evolutionary computation | Levy Flight | LF-PSO | Load forecasting | PSO

Indexed keywords

Engineering controlled terms: Deep learning | Electric power plant loads | Forecasting

Engineering uncontrolled terms: BiLSTM | Deep learning | Learning models | Levy flight-particle swarm optimization | Levy flights | Load forecasting | Particle swarm | PSO | Swarm optimization

Engineering main heading: Particle swarm optimization (PSO)

Funding details

Funding sponsor	Funding number	Acronym
Ministry of Education, India		MoE
Centre for Teaching and Learning, Universiti Teknologi Malaysia		CTL

Funding text

Document details - Development and Control of a Four-Wheel Drive Holonomic Mobile Robot

2023 7th International Conference on Computer Applications in Electrical Engineering-Recent Advances: Sustainable Transportation Systems, CERA 2023

2023

7th International Conference on Computer Applications in Electrical Engineering-Recent Advances, CERA 2023; Indian Institute of Technology (IIT)Roorkee; India; 27 October 2023 through 29 October 2023; Category numberCFP23K08-ART; Code 197844

Development and Control of a Four-Wheel Drive Holonomic Mobile Robot(Conference Paper)

Manavaalan, G., Karon, S., Krishna, R., Raj, M.L., Priya, P.H., Orlando, M.F.

[a]Coimbatore Institute of Technology, Dept. of Electrical and Electronics Engineering, Coimbatore, India
[b]Indian Institute of Technology Roorkee, Dept. of Electrical Engineering, Roorkee, India

Abstract

In this piece of work, we present both the development and control of a four Mecanum wheeled mobile robotic system ensuring precise maneuverability, and satisfactory tracking performance. Particularly, the development involves the design of actuators for each wheel with appropriate encoders and selection of embedded system for multi-actuator control. Likewise, the closed loop path-tracking control strategy is designed by utilizing the identified model of the drive wheel unit as the inner loop and closed-loop inverse kinematic control as the outer loop, involving system sensory feedback. Both simulations and experimentations are performed to ensure zero turning radius and lateral movements (with constant yaw angles) during the system maneuverability in various pre-defined paths. From these results, it is inferred that both the zero turning radius and lateral movement tasks execute a fine performance with a maximum error of 0.025 m and 0.01 m, respectively. Thus, it is confirmed from the test results that our developed four-Mecanum wheeled robotic system will execute satisfactory performance towards the application of mobile robots.

Author keywords

DC Servo Motor Control | Mecanum-Wheel | Mobile Robot | Path Tracking Control

Indexed keywords

Engineering controlled terms: Actuators | Closed loop control systems | DC motors | Electric machine control | Inverse kinematics | Navigation | Sensory feedback | Wheels

Engineering uncontrolled terms: Closed-loop | DC servo | DC servo motor control | Development and controls | Lateral movement | Manoeuvrability | Mecanum wheels | Path tracking control | Servo motor control | Turning radius

Engineering main heading: Mobile robots

Document details - Finite State Machine-Based Load Scheduling Algorithm for Smart Home Energy Management

IETE Journal of Research

Volume 69, Issue 10, 2023, Pages 7460-7475

Finite State Machine-Based Load Scheduling Algorithm for Smart Home Energy Management(Article)

Merlin Sajini, M.L., Suja, S., Merlin Gilbert Raj, S., Kowsalyadevi, S., Maria, C.

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[b]Department of ECE, Karunya Institute of Technology and Sciences, Coimbatore, India
[c]Solliton Technologies, Coimbatore, India

Abstract

The problem of scheduling household appliances with the availability of renewable energy is the biggest challenge in the smart home energy management system. The components such as renewable energy resources, household appliances, utility grid, storage batteries are pooled into a nonlinear, time-varying, indefinite, and dynamic structure that is impossible to control and refine. For this, real-time pricing is applied in most nations to withstand the burden on the grid. This requires attention to utilize renewable energy effectively. In this paper, a load scheduling method to schedule the loads based on the availability of solar energy and customer preferences is presented. First, the availability of solar energy is forecasted ahead one day using Regression Analysis. Second, the finite state machine approach-based load scheduling algorithm is implemented and tested using MATLAB Simulink and Lab VIEW. LabVIEW-based GUI is developed to visualize the MATLAB schedule for loads. The problem is divided into several states with the availability of solar power, and if solar power is unavailable, grid power is utilized. The loads preferred by the consumers are scheduled in alignment with the production of solar power with the finite state machine scheduling algorithm. Also, the loads considered are able to consume instantaneous energy with the instantaneous production of energy, thereby reducing CO_2 emission by not consuming power from the grid. Finally, the loads are scheduled accordingly, and it is concluded that coordination can be established between energy providers, and the system proposed can flatten out the load profile. © 2023 IETE.

Author keywords

Energy management | Finite state machine | Load scheduling | Scheduling algorithm | Simulink model | Solar irradiance

Indexed keywords

Engineering controlled terms: Automation | Domestic appliances | Electric power supplies to apparatus | Electric power transmission networks | Energy management systems | Regression analysis | Scheduling | Scheduling algorithms | Solar energy

Engineering uncontrolled terms: Energy | Finite states machine | Home energy managements | Load scheduling | Load scheduling algorithms | Renewable energies | Simulink models | Smart home energy management systems | Smart homes | Solar irradiances

Engineering main heading: Energy management

Document details - Optimal location and sizing of various DG units in real distribution substation using heuristic approach

Circuit World

Volume 49, Issue 4, 8 November 2023, Pages 493-513

Optimal location and sizing of various DG units in real distribution substation using heuristic approach(Article)

Merlin Sajini, M.L., Suja, S., Merlin Gilbert Raj, S.

[a]Department of EEE, Coimbatore Institute of Technology, Coimbatore, India
[b]Department of ECE, Karunya Institute of Technology and Sciences, Coimbatore, India

Abstract

Purpose: The purpose of the study is distributed generation planning in a radial delivery framework to identify an appropriate location with a suitable rating of DG units energized by renewable energy resources to scale back the power loss and to recover the voltage levels. Though several algorithms have already been proposed through the target of power loss reduction and voltage stability enhancement, further optimization of the objectives is improved by using a combination of heuristic algorithms like DE and particle swarm optimization (PSO). Design/methodology/approach: The identification of the candidate buses for the location of DG units and optimal rating of DG units is found by a combined differential evolution (DE) and PSO algorithm. In the combined strategy of DE and PSO, the key merits of both algorithms are combined. The DE algorithm prevents the individuals from getting trapped into the local optimum, thereby providing efficient global optimization. At the same time, PSO provides a fast convergence rate by providing the best particle among the entire iteration to obtain the best fitness value. Findings: The proposed DE-PSO takes advantage of the global optimization of DE and the convergence rate of PSO. The different case studies of multiple DG types are carried out for the suggested procedure for the 33- and 69-bus radial delivery frameworks and a real 16-bus distribution substation in Tamil Nadu to show the effectiveness of the proposed methodology and distribution system performance. From the obtained results, there is a substantial decrease in the power loss and an improvement of voltage levels across all the buses of the system, thereby maintaining the distribution system within the framework of system operation and safety constraints. Originality/value: A comparison of an equivalent system with the DE, PSO algorithm when used separately and other algorithms available in literature shows that the proposed method results in an improved performance in terms of the convergence rate and objective function values. Finally, an economic benefit analysis is performed if a photo-voltaic based DG unit is allocated in the considered test systems. © 2022, Emerald Publishing Limited.

Author keywords

Allocation | Differential evolution | Distributed generation | Losses | Particle swarm optimization | Sizing | Voltage stability

Indexed keywords

Engineering controlled terms: Global optimization | Heuristic algorithms | Heuristic methods | Iterative methods | Location | Particle swarm optimization (PSO) | Renewable energy resources

Document details - MXene fractal-based dual-band metamaterial absorber in the visible and near-infrared regime

Optical and Quantum Electronics

Volume 55, Issue 11, November 2023, Article number 992

MXene fractal-based dual-band metamaterial absorber in the visible and near-infrared regime(Article)

Nandakumar, S., Trabelsi, Y., Vasudevan, B., Gunasekaran, S.

[a]Department of Electrical and Electronics Engineering, Coimbatore Institute of Technology, Tamilnadu, Coimbatore, 641014, India
[b]College of Arts and Sciences in Muhail Asir, Physics Department, King Khalid University, Abha, Saudi Arabia
[c]Department of Electronics and Communication Engineering, St.Joseph's College of Engineering, OMR, Tamilnadu, Chennai, 600119, India

Abstract

This article details the development of an MXene-based fractal metamaterial solar absorber (MMA) that operates in the visible and near-infrared ranges. A silicon dioxide (SiO_2) substrate, a silver reflecting surface, and a single sheet of fractal pattern MXene make up the suggested absorber. With a normal incidence spectrum from 400 to 1500 nm, this dual-band absorber has an absorptivity over 80%. In addition, its narrow band absorption peak with 100% absorptivity in the visible range demonstrates its value for sensing applications. The suggested metasurface's electric resonance is responsible for its impressive absorption throughout a large portion of the spectrum, from the visible to the near-infrared. In addition, the suggested solar absorber's polarization insensitivity originates from the symmetric fractal structure. Experiments have shown that the angle of light's incidence has no effect on the absorber. The suggested absorber's strong narrow-band absorption in the visible range may be beneficial for sensing applications, and its wide-band absorption in the near-infrared area may improve light-to-heat conversion, both of which would benefit solar energy systems.

Author keywords

Dual-band | Energy Harvesting | Metasurface | Renewable Energy | Solar Absorber

Indexed keywords

Engineering controlled terms: Absorption spectroscopy | Fractals | Infrared devices | Metamaterials | Silica | Silicon oxides | Solar absorbers | Solar energy

Engineering uncontrolled terms: Absorptivities | Dual Band | Metasurface | Narrow bands | Near Infrared | Renewable energies | Sensing applications | Spectra's | Visible and near infrared | Visible range

Engineering main heading: Energy harvesting

Document details - A Survey on Intrusion Detection System in Smart City: Security Concerns

2023 7th International Conference on Computer Applications in Electrical Engineering-Recent Advances: Sustainable Transportation Systems, CERA 2023

2023

7th International Conference on Computer Applications in Electrical Engineering-Recent Advances, CERA 2023; Indian Institute of Technology (IIT)Roorkee; India; 27 October 2023 through 29 October 2023; Category numberCFP23K08-ART; Code 197844

A Survey on Intrusion Detection System in Smart City: Security Concerns(Conference Paper)

Nandhini, N., Manikandan, V., Manavaalan, G., Elango, S., Jeevakarunya, C., Kumar, P.V.

Coimbatore Institute of Technology, Dept. of Electrical and Electronics Engg, Coimbatore, India

Abstract

Emergence of Internet of Things (IoT) -driven smart cities has brought both security and privacy challenges that demand effective countermeasures. Traditional cyber-security strategies are insufficient for the heterogeneity and dynamic nature of smart cities, necessitating a proactive approach to address security and privacy threats during system design and implementation. This article provides an analysis of the security threats and vulnerabilities, a complete review of security challenges, available Intrusion Detection Systems (IDS), and exemplary approaches for smart cities, categorized based on governance, socioeconomic factors, and technology. The survey examines the use of deep learning techniques for anomaly detection and intrusion detection in IoT networks. Furthermore, the integration of blockchain technology with IoT, and deep learning models towards the development of robust security measures are discussed. Developers working on creating and safeguarding smart cities can benefit significantly from the conclusions and suggestions for future studies offered in this paper. © 2023 IEEE.

Author keywords

Blockchain IDS Internet of Things Intrusion Detection Privacy Security Smart city

Indexed keywords

Engineering controlled terms: Anomaly detection Blockchain Computer crime Cybersecurity Deep learning Intrusion detection Learning systems Network security Smart city

Engineering uncontrolled terms: Block-chain City securities Cyber security Intrusion Detection Systems Intrusion-Detection Privacy Security Security and privacy Security strategies Security threats

Engineering main heading: Internet of things

Document details - Developing digital twin design for enhanced productivity of an automated anodizing industry and process prediction using hybrid deep neural network

Engineering Applications of Artificial Intelligence

Volume 122, June 2023, Article number 106086

Developing digital twin design for enhanced productivity of an automated anodizing industry and process prediction using hybrid deep neural network(Article)

Vinodh Kumar, P., Manikandan, V., Manavaalan, G., Elango, S.

Department of Electrical and Electronics Engineering, Coimbatore Institute of Technology, Anna University, Tamil Nadu, Coimbatore, 641014, India

Abstract

Automation is beneficial when implemented in challenging environments requiring less human effort or reducing human effort. Employee safety is a concern to increase productivity, delivery and achieve the required quality. The present research investigates the possibility of installing an automation procedure in an anodizing industry called GOLDEN ANODIZER, which is situated in Coimbatore, India. During the preliminary analysis at the specified industry premises, there was a reduction in productivity, quality and customer delivery due to manual operations, including some health issues were identified. And hence the present investigation analyses the possibility of installation of an automation system for the anodizing process. For such reason, the digital twin of an automation system is first designed, developed and tested using Siemens NX software. The anodizing factors such as Anodizing medium temperature (K), Acid Concentration (wt%), applied voltage (V) and Responses Surface Finish (Ra), Film Thickness (tf) and Time Duration (T) were optimized for improved productivity and quality. Prediction results and RMSE analysis show that the proposed hybrid PSO-LFA algorithm has outperformed all modern algorithms. The proposed algorithm optimized the anodizing parameters and suggested 3650.7 s as a new cycle time. Also, the improved cycle time can boost the plant outcome by 182% and reduce the manpower by 46% through the proposed Automation system.

Author keywords

Automatic Aluminium anodizing | Digital Twin | Hybrid algorithm and Response surface methodology | Optimization | Siemens NX

Indexed keywords

Engineering controlled terms: Aluminum | Deep neural networks | Particle swarm optimization (PSO) | Quality control | Software testing

Engineering uncontrolled terms: Aluminum anodizing | Automatic aluminum anodizing | Automation systems | Cycle time | Hybrid algorithm and response surface methodology | Hybrid algorithms | Optimisations | Response-surface methodology | Sieman NX | Siemens

Engineering main heading: Automation

A Novel Proposal in Multilevel Inverter with Genetic Algorithm Optimization

Publisher: IEEE

V. Bharath Choudry ; A. Kavithamani ; S. Sam Karthik **All Authors**

Abstract:
In transformation of resources like power the multilevel inverters are the best technology. Output as stair waveform signal feed as input to many of the DC sources. The d... **View more**

Metadata

Abstract:
In transformation of resources like power the multilevel inverters are the best technology. Output as stair waveform signal feed as input to many of the DC sources. The description of multilevel inverter topology is described in the paper. The presentation consist of 7 level architecture principle and to obtain best quality of output signal the algorithm of adaptive genetic is adopted to slow down the harmonic content. In actual time the evaluations of appropriate switching angle used to analyse the THD minimization. The overall observations are declined based on 7 level to cases in other levels and THD determination in various states. These studies are based on MATLAB simulation and programming. The proposed work is simulated using MATLAB software which gives the model accuracy rate of 80% with the lesser error rate. The multilevel inverter designed using the proposed method removes the harmonic function at various input voltage with the minimum loss factors.

Published in: 2023 Innovations in Power and Advanced Computing Technologies (i-PACT)

Date of Conference: 08-10 December 2023

DOI: 10.1109/i-PACT58649.2023.10434742

Date Added to IEEE *Xplore*: 26 February 2024

Publisher: IEEE

ISBN Information:

Conference Location: Kuala Lumpur, Malaysia

Contents

I Introduction

The most common method of DC/AC conversion is the multilevel inverters because of evolution of multilevel inverters (MLIs). The architecture concepts are proposed to form new techniques and conversion in MLIs [1]. The evaluation of MLIs with grid formation and control techniques has gives huge credits in development of distributed generation in renewable energy stations. The main objective in reduction of external regulation dependency has push forwarded in MLIs development. The most of the complementation's are consider for studies on reduction switching devices, capacitors and power diodes [2]. In classic inverters with optimization of output signal has harmonic elimination of pulse width modulation (PWM) which gives reliability and efficiency in terms of quality of power. In multilevel conversion field the MLIs has balance charge state and enhanced architecture. By reduction in components and optimize the switching angles can improve power quality to maximum and minimum harmonics [3]. To enhance perfect optimization with special cases by study of research commands on targeted optimized in inverter cells for power sharing. The above can be demonstrated by optimizing command patterns or elimination of selective harmonics [4–8]. In regular study of grid connected applications of MLIs using optimal switching cycle development by classic topologies hybrid multilevel architecture design and regulation and integrated filtering. With the various range of voltages MLIs can operate in both high and medium voltage applications [9–10].

Authors

Figures

References

Keywords

Metrics

Improvement in Electrical Performance of Distributed Generation due to Electromagnetic Interference

Original Article Published: 21 July 2023

Volume 18, pages 4321–4328, (2023) Cite this article

Journal of Electrical Engineering & Technology

Aims and scope

Submit manuscript

Solaisamy Divya, Jayabal Devi Shree & Mani Mynavathi

Abstract

Utilization of renewable energy resources comprises problems like lack of access to land and intermittent nature of renewable sources. In the proposed work, the effect of high voltage (HV) lines on electrical characteristics and conversion process of photovoltaic (PV) panels is

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ARTICLE

Implementation of FPGA Based MPPT Techniques for Grid-Connected PV System

Thamatapu Eswara Rao*, S. Elango

Department of Electrical and Electronics Engineering, Coimbatore Institute of Technology, Coimbatore, India

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Intelligent Automation & Soft Computing **2023**, *35*(2), 1783-1798.

https://doi.org/10.32604/iasc.2023.028835

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Accepted 06 April 2022;
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Original Article Published: 03 September 2022

Volume 35, pages 2679–2700, (2023) Cite this article

Neural Computing and Applications

Aims and scope

Submit manuscript

D. Kiruthiga & V. Manikandan

Abstract

This paper proposes a new optimized Deep Learning (DL) network design for time series load forecasting. At first, DL's hyper parameters are optimized using the Levy flight-particle swarm optimization (LF-PSO) technique; then, the optimized DL model is used for load

Certain Investigation on Batteries and Super Capacitor for Hybrid E-Vehicle

Publisher: IEEE

M. Kowsalya ; S. Elango ; A. Elakya ; R. Karthigayini **All Authors**

Abstract:
In modern life, transportation is a basic requirement with all the digitized facilities, safety, pollution free and the reduced fuel cost. In the near future all the petr... **View more**

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Abstract:
In modern life, transportation is a basic requirement with all the digitized facilities, safety, pollution free and the reduced fuel cost. In the near future all the petrol and diesel vehicles will be replaced by pollution free, noiseless, low running cost E-Vehicles. Nowadays the fuel cost is the challenging factor which can be eliminated in E-Vehicle powered by renewable energy sources installed at home and hybrid grid energy systems. E-vehicles are with the conversion efficiency of 70% whereas the diesel and petrol vehicles, the conversion efficiency is only 21%. By 2030, the digital technology helps to simply park the vehicle in the shopping mall's parking area, while returning after 3-4 hours from the shopping mall, the parked E-Vehicle get charged automatically through wireless charging system and the automated notifications will be received in wearable smart fit bits. The challenging factor of E-Vehicle is the batteries and their management systems. This research study analyses and compares various batteries and their parameters like charging and discharging parameters, cycling, battery life and the efficiency of batteries.

Published in: 2023 3rd International Conference on Innovative Mechanisms for Industry Applications (ICIMIA)

Date of Conference: 21-23 December 2023 **DOI:** 10.1109/ICIMIA60377.2023.10425843

Investigating the Performance of Internet of Things in a Traditional Anodizing Industry for improved Quality and Delivery of Products using Response Surface Methodology

Publisher: IEEE

P. Vinodh Kumar ; V. Manikandan ; G. Manavaalan ; S. Elango **All Authors**

Abstract:
The Anodizing industry is an industry that has not much attention among researchers when it comes to modernizing working standards in the environment. There are many inve... **View more**

Metadata

Abstract:
The Anodizing industry is an industry that has not much attention among researchers when it comes to modernizing working standards in the environment. There are many investigations regarding the anodizing process. But when it comes to quality and productivity of the industry, as per our knowledge so far no investigation exists that suggests a better productivity or product quality of anodizing industry total outcome. An existing investigation in the field suggested the application of Automation in the anodizing production line could improve the anodizing process parameters as well as Quality & productivity of the plant outcome. However, the observed parameters of the products and the plant are not up to the mark since the plant is using traditional work culture and Legacy machines even though the specific Anodizing line is Automated. And hence the present investigation proposes the retrofitting of Internet of Things (IoT) devices to improve the Anodizing plant parameters to a considerable rate. In-order to achieve this goal the possibilities for the implementation of IoT devices in the Anodizing plant was well analyzed. Considering the key benefits of the IoT implementation in the Anodizing production line a Response Surface Methodology (RSM) model was developed and the efficiency of the proposed model was analyzed. Results show that the proposed model outperformed the existing

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Exploring IBM Quantum Experience

| Chapter | First Online: 30 March 2023

| pp 265–282 | Cite this chapter

Quantum Computing: A Shift from Bits to Qubits

S. Gayathri Devi ✉, S. Manjula Gandhi, S. Chandia & P. Boobalaragavan

Part of the book series: Studies in Computational Intelligence ((SCI,volume 1085))

Abstract

Nowadays, quantum computing is a very promising technology. Quantum computers, rather than using merely 1 s or 0 s, execute calculations based on the probability of an object's condition before it is measured, allowing them to process exponentially more data than traditional computers. A bit is a single state, such as on or off, up or down, 1 or 0. Instead, operations in quantum computing utilise the quantum state of an item to produce a qubit. These are the undefined qualities of an object before they are discovered, such as an

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S. Gayathri Devi, S. Manjula Gandhi, C. Sathya, S. Chandia & K. H. Vani

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2023 | OriginalPaper | Chapter

Identification of Autism Spectrum Disorder from Functional MRI Using Deep Learning

Authors : R. Pavithra, S. P. Abirami, S. Krithika, S. Sabitha, P. Tharanidharan

Published in: Advances in Information Communication Technology and Computing

Publisher: Springer Nature Singapore

Abstract

Autism spectrum disorder (ASD) is a collection of a way of continuing neurodevelopment illnesses identified by limited and repetitive behavioral patterns, as well as social and communication impairments. Despite the fact that symptoms are most common in childhood, diagnosis is sometimes delayed. Because the current ASD diagnostic technique is solely uncertain and questionnaire, requiring the physician to review the behavior and developmental history of a child. It's been suggested that behavioral symptoms in ASD are linked to brain findings of increased short-distance and diminished long-distance connections. The suggested approach makes use of brain imaging data from Autism Brain

Blockchain-Based Agri-Food Supply Chain Management

| Conference paper | First Online: 24 February 2023

| pp 489–501 | Cite this conference paper

Proceedings of the International Conference on Paradigms of Computing, Communication and...

N. Anithadevi, M. Ajay, V. Akalya, N. Dharun Krishna & S. Vishnu Adityaa

Part of the book series: Algorithms for Intelligent Systems ((AIS))

Abstract

Advancements in the supply chain involving automatic networks are becoming a significant wellspring of advantages in the contemporary environment. Consumers on the other hand are emphasized in the quality of food products. The proliferation in production

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A Meta-Classifier Link Prediction Model for False Profile Identification in Facebook

| Conference paper | First Online: 02 March 2023

| pp 15–29 | Cite this conference paper

Inventive Computation and Information Technologies

S. Saranya, M. Rajalakshmi, S. Devi & R. M. Suruthi

Part of the book series: Lecture Notes in Networks and Systems ((LNNS,volume 563))

Abstract

Nowadays, social networks have become part of our everyday routine to connect and communicate to diverse communities. The detection of abnormal vertices in these networks has become more vital in exposing network intruders or malicious users. In this paper, we have included a novel meta-classifier which will notice anomalous vertices in complicated

2023 | OriginalPaper | Chapter

Exploring IBM Quantum Experience

Authors : S. Gayathri Devi, S. Manjula Gandhi, S. Chandia, P. Boobalaragavan

Published in: Quantum Computing: A Shift from Bits to Qubits

Publisher: Springer Nature Singapore

Quantum Computing: A Shift from Bits to Qubits

edited by Rajiv Pandey, Nidhi Srivastava, Neeraj Kumar Singh, Kanishka Tyagi

An Exploratory Analysis of Delhi Air Quality Using Statistics and Machine Learning Models

Publisher: IEEE

Anwesha Chakravarty ; Siva Sathya. S ; Sharmiladevi. S **All Authors**

Abstract:
Air pollution is one of the most significant concerns of the present era, which has severe and alarming effects on human health and the environment, thereby escalating th... **View more**

Metadata

Abstract:
Air pollution is one of the most significant concerns of the present era, which has severe and alarming effects on human health and the environment, thereby escalating the climate change issue. Hence, in-depth analysis of air pollution data and accurate air quality forecasting is crucial in controlling the growing pollution levels. It also aids in designing appropriate policies to prevent exposure to toxic pollutants and taking necessary precautionary measures. ed to other major cities in the world. In this study, daily and were collected and analyzed using various methods. A asons, and the topography of different stations. The effect of ls is also studied. A correlation analysis is performed on the es among different pollutants, their relationship with weather 'arious machine learning models were used for air quality ion, Gradient Boosting Machine, Random Forest, and Decision compared using RMSE, MAE, and MAPE metrics. This study rimary reasons behind it, and the efficacy of calculated ghts the potential of Linear Regression and Decision Tree nt time intervals.

Classification of Breast Invasive Ductal Carcinomas Using Histopathological Images Based on Deep Learning Techniques

| Conference paper | First Online: 19 May 2023

| pp 261–271 | Cite this conference paper

Proceedings of the International Health Informatics Conference

W. Jaisingh ✉, N. Preethi & S. Murali

Part of the book series: Lecture Notes in Electrical Engineering ((LNEE,volume 990))

Abstract

Women suffer from cancer, which is the main reason for death for females around the world. With the use of artificial intelligence, it is possible to predict and detect all types of cancers in the near future. It is not just women who can heal, and most breast cancers are

Predictive Maintenance for Remote Field IoT Devices—A Deep Learning and Cloud-Based Approach

| Conference paper | First Online: 27 May 2023

| pp 567–585 | Cite this conference paper

Mobile Computing and Sustainable Informatics

A. Kannammal, M. Guhanesvar & R. R. Venketesz

Part of the book series: Lecture Notes on Data Engineering and Communications Technologies ((LNDECT,volume 166))

Abstract

Predictive maintenance is the process of monitoring equipment continuously during its operation to monitor its performance to report its faults beforehand. Using machine

An Analytical Assessment of Machine Learning Algorithms for Predicting Campus Placements

| Conference paper | First Online: 27 May 2023

| pp 221–231 | Cite this conference paper

Mobile Computing and Sustainable Informatics

S. Bala Dhanalakshmi, Raksheka Rajakumar, Swetha Shankar, R. Sowndharya Rani, N. Deepa & C. Subha Priyadharshini

Part of the book series: Lecture Notes on Data Engineering and Communications Technologies ((LNDECT,volume 166))

Abstract

Employability is critical in determining a country's growth. Predicting the employability rate will provide a framework for the government and economists to plan for the future, as well as education management to understand changing trends. As a result, in recent years,

Meta Heuristic-Based Community Detection of Social Network Using Cuckoo with InfoMap Algorithm

| Conference paper | First Online: 21 June 2023

| pp 15–23 | Cite this conference paper

Intelligent Manufacturing and Energy Sustainability

S. Devi, M. Rajalakshmi, S. Saranya & J. Shana

Part of the book series: Smart Innovation, Systems and Technologies ((SIST,volume 334))

Abstract

Facebook and Twitter are one of the social networks for communicating our thoughts, feelings, opinions of current scenarios. By using this communication platform rapidly, people can share information. In the analysis of the social network, identifying such

Recent Trends in Computational Intelligence and Its Application (https://www.taylorfrancis.com/books/edit/10.1201/9781003388913/recent-trends-computational-intelligence-application-sugumaran-souvik-pal-dac-nhuong-le-noor-zaman-jhanjhi)

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Chapter

Historical Document Analysis Using Deep Learning

By S. Devi (/search?contributorName=S. Devi&contributorRole=author&redirectFromPDP=true&context=ubx), M. Rajalakshmi (/search?contributorName=M. Rajalakshmi&contributorRole=author&redirectFromPDP=true&context=ubx), R. Saranya (/search?contributorName=R. Saranya&contributorRole=author&redirectFromPDP=true&context=ubx), G. Swathi (/search?contributorName=G. Swathi&contributorRole=author&redirectFromPDP=true&context=ubx), K. Selvi (/search?contributorName=K. Selvi&contributorRole=author&redirectFromPDP=true&context=ubx)

Book Recent Trends in Computational Intelligence and Its Application (https://www.taylorfrancis.com/books/edit/10.1201/9781003388913/recent-trends-computational-intelligence-application-sugumaran-souvik-pal-dac-nhuong-le-noor-zaman-jhanjhi)

Edition	1st Edition
First Published	2023
Imprint	CRC Press
Pages	6
eBook ISBN	9781003388913

ABSTRACT

Previous Chapter (chapters/edit/10.1201/9781003388913-15/face-emotion-recognition-using-histogram-oriented-gradient-hog-feature-extraction-neural-networks-sheriff-jalaja-kumar-dinesh-pavithra-yerramachetty-puja-sowmiya?context=ubx)
Next Chapter (chapters/edit/10.1201/9781003388913-17/iot-based%E2%80%94low-cost-smart-solar-panel-power-monitoring-system-using-arduino-esp8266-prabaakaran-anto-bennet-kumar-senthil-jayasurya-kocherla-narendra-saravanan?context=ubx)

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S. Devi, M. Rajalakshmi, S. Saranya & J. Shana

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Abstract

Facebook and Twitter are one of the social networks for communicating our thoughts, feelings, opinions of current scenarios. By using this communication platform rapidly,

Handbook of Computational Sciences: A Multi and Interdisciplinary Approach

Chapter 1

A Sensor-Based Automated Irrigation System for Indian Agricultural Fields

I.S. Akila, Ahmed A. Elngar

Book Editor(s):Ahmed A. Elgnar, M Vigneshwar, Krishna Kant Singh, Zdzislaw Polkowski

First published: 14 July 2023
https://doi.org/10.1002/9781119763468.ch1

Summary

The continuous monitoring of field conditions using an IoT system is essential to maintain the optimum levels of the field parameters like soil moisture and temperature and to increase productivity. Continuous monitoring and automation of irrigation to optimize field conditions is a challenge faced by the agriculture sector. The proposed work presents an IoT system that collects temperature and humidity data through the sensors, processes them, and automates the irrigation process based on the results. Considering the pragmatic feasibility of many conventional and modern approaches, this work proposes a simplified and economic solution to automate the process of irrigation amidst the challenges such as lack of skilled labor and overhead involved in the complexity of the existing solutions. The work could be extended to various geographical regions of the Indian landscape to make a comprehensive and all-inclusive solution for the automation of the irrigation process.

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6G Communication Network

Architecture, Security and Applications

Edited By Ajay Kumar Vyas (/search?contributorName=Ajay Kumar Vyas&contributorRole=editor&redirectFromPDP=true&context=ubx), Narendra Khatri (/search?contributorName=Narendra Khatri&contributorRole=editor&redirectFromPDP=true&context=ubx), Sunil Kumar Jha (/search?contributorName=Sunil Kumar Jha&contributorRole=editor&redirectFromPDP=true&context=ubx)

Edition	1st Edition
First Published	2024
eBook Published	30 October 2024
Pub. Location	Boca Raton
Imprint	CRC Press
Pages	440
eBook ISBN	9781003522003
Subjects	Computer Science, Engineering & Technology

RESEARCH ARTICLE | DECEMBER 15 2023

Emotion analysis using improved deep belief network classifier

J. Shana ; M. Priyadharshini Jayadurga; R. M. Sruthi; S. Devi

+ Author & Article Information

AIP Conf. Proc. 2901, 060024 (2023)

https://doi.org/10.1063/5.0178847

Emotion Analysis from twitter data is a research field which is closely related to sentiment analysis. Automatic evaluation of user feedback is the major application of sentiment classification. Deep learning-based techniques provides efficient results in real time classification tasks. In this paper, Deep Belief Network (DBN) is enhanced with weight and learning decay parameters to achieve better results. Pre-processing of data was performed with NLTK tool which is developed in Python. The tweets were collected from Kaggle data repository and evaluated with improved DBN which achieved greater accuracy of 94.1% over traditional methods.

Topics

Deep learning, **Natural language processing**, **Programming languages**, **Learning and learning models**, **Statistical mechanics models**

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நான் உங்களுக்கு கற்பிக்காததற்கு மன்னிக்கவும்

பேராசிரியர் கிருஷ்ண குமார்
&
குச்சி ஸ்ரீவஸ்தவா

மொழி பெயர்ப்பு

முனைவர். இரா. ஜெயந்தி மோகன்
முனைவர். த. சத்யப் பிரியா
செல்வி. விசா துரிகா

"கலங்காது கண்ட வினைக்கண்
துளங்காது துாக்கங் கடிந்து செயல்"

– திருக்குறள் – 668

உலகில் பல்வேறு காலகட்டங்களில் அனைத்து துறைகளிலும் திறமை மிக்க அ அறிவும் தொலைநோக்குச் சிந்தனைகளும் கொண்ட அறிஞர்கள் பலர் தோன்றியுள் அத்தகைய பன்முகத் திறமைகள் கொண்ட அறிஞர்களில் பல இந்தியர்கள் தடம் பத சாதனை புரிந்துள்ளனர்.

பேராசிரியர் கிருஷ்ண குமார் ஒரு மனிதன் தன் வாழ்நாளில் எவ்வளவு படிக்க முடிய அவற்றைவிட அதிகமாக படித்துப் பல பட்டங்கள் பெற்றுள்ளார். இவரது அயராத பண வாயிலாக வெற்றியடைந்த நிறுவனங்கள் இந்தியா முழுவதும் உள்ளன. எவரிலும் செய்து மு இயலாதவற்றை எவர் ஒருவர் விடாமுயற்சியுடன் செய்து முடித்து அவற்றில் வெற்றி பெறுகிற அவரே சாதனையாளர் என்று போற்றப்படுகிறார். அவ்வகையில் பேராசிரியர் கிருஷ்ண கு அவர்கள் மிகச்சிறந்த சாதனையாளராகத் திகழ்கிறார்.

பேராசிரியர் கிருஷ்ண குமார் அவர்கள் மேலாண்மையியல் துறையில் உ ஆசிரியர்களின் திறன்களை மேம்படுத்துவதில் மிகுந்த முனைப்புடன் செயல்பட்டார். ஸ்ட்ராட்டஜிக் மேனேஜ்மென்ட் துறையில் அவர் வடிவமைத்த ஆசிரிய மேம்பாட்டுப் பயிற்சியானது அனைத்து மேலாண்மை ஆசிரியர்களும் இந்தியா முழுவதிலும் உள்ள சிறந்த மேலாண்மை நிறுவனங்களில் பயிற்சி பெற உதவியாக இருந்தது.

"நான் உங்களுக்குக் கற்பிக்காததற்கு மன்னிக்கவும்" என்பது ஒரு மொழி பெயர்ப்பு முயற்சி ஆகும். இந்தப் புத்தகத்தில் உள்ள சம்பவ ஆய்வுகள் (கேஸ் ஸ்டடிஸ்) அனைத்தும் பேராசிரியர் கிருஷ்ண குமார் அவர்களின் மேலாண்மையியல் துறையில் உள்ள அனுபவத்தினால் கடந்த 40 வருடங்களில் வெவ்வேறு கால கட்டங்களில் ஆங்கிலத்தில் எழுதப்பட்டவை. இயற்கை அன்னையைப் போல் உள்ளம் கொண்ட பேராசிரியர் கிருஷ்ண குமார் தம்முடைய அறிவையும் அனுபவத்தையும் இந்தியாவிலுள்ள அனைத்து மேலாண்மைக் கல்வி பயிலும் மாணவர்களும் ஆசிரியர்களும் மொழி வேறுபாடு இல்லாமல் அவர்களின் வளர்ச்சிக்காகப் பயன்படுத்த வேண்டும், என்ற உயரிய சிந்தனை காரணமாக அவருடைய இந்தச் சம்பவ ஆய்வு தொகுப்பு புத்தகத்தைத் தமிழில் மொழி பெயர்க்கும் வாய்ப்பினை எங்களுக்கு வழங்கியுள்ளார். அவருக்கு எங்கள் மனமார்ந்த நன்றிகள்.

இப்புத்தகத்தை தமிழில் மொழிபெயர்ப்புச் செய்வதற்குக் கிடைத்த வாய்ப்பை நாங்கள் பெரும் பேறாகக் கருதுகிறோம். இப்புத்தகம் மேலாண்மை கல்வி கற்பிக்கும் ஆசிரியர்களுக்கும், கல்வி பயிலும் மாணவர்களுக்கும் மற்றும் நிர்வாகப் பொறுப்பில் உள்ள அனைவருக்கும் மிக உதவியாக இருக்கும் என்று நம்புகிறோம்.

நன்றி

முனைவர். இரா. ஜெயந்தி மோகன் முனைவர். த. சத்யப் பிரியா செல்வி. விசா துாரிகா

மேலாண்மையியல் துறை

கோயமுத்துார் இன்ஸ்டிட்யூட் ஆஃப் டெக்னாலஜி

கோயமுத்துார்.

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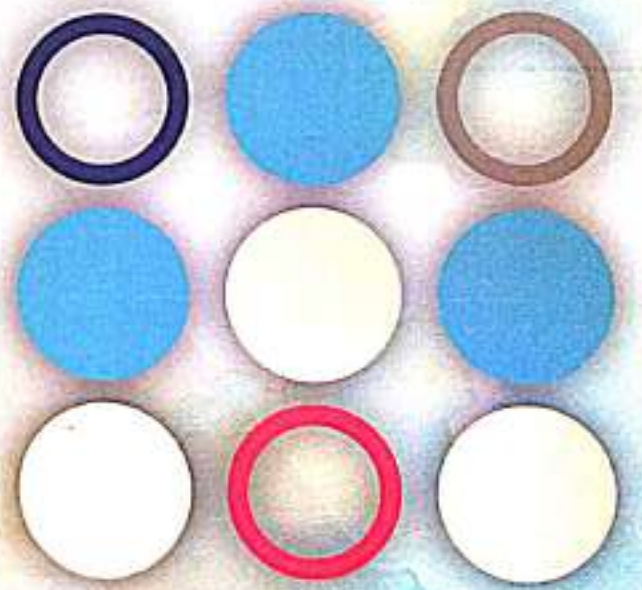

Edited by

P. SANTHI • D. VENNILA • S. RUBEYA

ISBN 978-81-316-1365-8

Published by
Prem Rawat for **Rawat Publications**
Satyam Apts, Sector 3, Jawahar Nagar, Jaipur 302 004 (India)
Phone: 0141 265 1748 / 265 7006
E-mail: info@rawatbooks.com
Website: www.rawatbooks.com

New Delhi Office
4858/24, Ansari Road, Daryaganj, New Delhi 110 002
Phone: 011-23263290

Also at *Bengaluru, Guwahati* and *Kolkata*

Typeset by Rawat Computers, Jaipur
Printed at Nice Printing Press, New Delhi

Contents

Understanding The Sobo Behaviour In Consumers Decision Making Process

Thilaga S, Sudha A.G*, Deepa J*;*
**Coimbatore Institute of Technology*

Abstract

Purpose:

The present study is an understanding of the SOBO behaviour among the consumer during their decision-making process with respect to fashion products. Through this research the researcher tries to find out how the SOBO behaviour is affecting in each of the five stages of consumer behaviour.

Design/methodology/approach:

The research focused on an in-depth understanding of the context through a thorough study of the previous literatures. A questionnaire as an instrument was devised to comprehend the buying behaviour of consumers (n=387) using a snowball sampling method and was analysed.

Findings:

The study findings revealed that the SOBO behaviour has a greater implication for the marketer as the consumers are very keen in saving time and money especially, they were keen on the utilitarian value that the purchase intend to give them.

Research limitations/implications:

The research focuses on fashion products and not concerned to other products. The consumer behaviour differs with different products as well as different context of purchasing which was not taken up for this study.

Practical implications:

With the vast technological developments and increase effects of post pandemic, the study has its importance and relevance in the field of marketing where the necessity of understanding changes in the consumer behaviour is still a prevalent one for any organisation especially the retailers are devising new trendy strategies to understand the behaviour and withstand in the market.

Value:

The present study tries to bring out the term SOBO into a very comprehensive and differing standpoint than that was presented in the previous studies which has a general focus and not on the stages of decision-making process.

Keywords:
Consumer behaviour, showrooming, webrooming, decision making

★ ★ ★ ★ ★

An Investigation On Awareness And Perception Of Self-drive Car Rental Companies In Ahmedabad City

Dr. Sachin Deshmukh, Dr. Anil Shrma**, Prof. Soumyakant Dash***, Dr. Haren Harsora***
**MIT WPU- School of Law, **St. Kabir Institute of Professional Studies Ahmedabad, ***Dr.D.Y.Patil Vidyapeeth's Global Business School & Research Center Pune*

Abstract

Purpose:

India is home to many competitors, which has caused the market to expand significantly. In most of India, the car rental business is still not organized. The next significant markets in this sector for established businesses would be Kolkata and Hyderabad. To appeal to senior individuals, mature gamers should also provide drivers on demand. The majority of businesses require sizable security deposits. Many consumers might switch if the security deposit was reduced.

Additionally, for weekend getaways, college students frequently choose self-drive cars available for rent. The policies of many businesses are pushing them toward other service providers. Packages to popular locations would also be the next development in the self-drive rental car market. In order to take a futuristic strategy, it

variables of interest. Another limitation is that this is a longitudinal study. It would be interesting to measure the long-term effects by doing repeated exposure to the game.

Practical implications:

This study has some major implications for practitioners as well as policymakers. Food companies have understood the consumers' need for healthy food and several companies have come up with premium brands and products to cater to the health-conscious segment of consumers. They could tap into this innovative advertising strategy of gamified advertising to reach out to their potential consumers and build favourable brand attitudes. Not just food companies but also retailers (modern trade formats, e-commerce retailers, startups) that want to be perceived as sellers of healthy foods could use this advertising strategy to build a consumer base and engage with them directly. Digital gaming companies build games to lure their client base so as to increase their revenues. The food companies can collaborate with these companies to co-build games that can influence consumer food choices positively in the direction of healthy foods while keeping the fun element of the game intact.

Social implications:

This study has some major implications for policymakers as well. Government agencies could roll out informative messages in the form of games to propagate the consumption of nutritious and healthy foods. In the past, television and radio advertisements for increasing the use of eggs have been rolled out by National Egg Coordination Committee (NECC) wherein they appealed to the public to consume eggs daily.

Keywords

nutrition information, digital games, young children, healthy eating

★ ★ ★ ★ ★

Instilling Sustainable Consumption – A Model of "Fix Your Gadgets", Coimbatore, Tamil Nadu

Dr.Jayanthi R, Dr.Sathyapriya T*,*
**Coimbatore Institute of Technology*

Abstract

Purpose of the Study:

The present study explores the sustainable consumption model which is been adopted by the startup company "Fix your Gadgets" from Coimbatore, Tamil Nadu. The company has been started with the mission to create the largest gadgets-repairing company in order to offer the gadget repairing service and also to provide a solution for customers facilitating the cultural change from use and throw mindset to reduce and reuse mindset. This is an important and necessary initiative to conserve the nature instead of adding to the tonnes of e-wastes which are unsafely discarded in our landfills.

Research Methodology :

The research is qualitative in nature. An interview was conducted with the CEO of the company Mr. Swarjith Alakananda in order to collect the views on the sustainable consumption model which is been practiced at "Fix your Gadgets". The interview schedule consisted of 10 questions. Case study approach is used in this research paper.

Originality :

The company "Fix your Gadgets" was born out of passion that sprouted in a seven year old many years ago. The company was started in the year 2017. Swarajith Alakananda is the founder and first employee of "Fix your Gadgets". He is an Entrepreneur, Dreamer, Innovator and passionate about sustainable practices in personal as well as professional life. The company is dedicated to provide greater experience to the customers in such a way that the customers are more positive towards repairing, reusing or recycling the gadgets. The company has grown from an idea, to a passionate team with thousands of customers from all over the country for the past four years. The company is engaged with various mobile & tab services, laptop & CPU services, TV services and services of other electronic devices. Research

Experimental and Theoretical Investigations of Support Structure Features and Build Time Management in PolyJet Technology

| Conference paper | First Online: 01 January 2022

| pp 1101–1119 | Cite this conference paper

Advances in Mechanical and Materials Technology

(EMSME 2020)

Arivazhagan Pugalendhi, Rajesh Ranganathan & Balamurugan Gopalakrishnan

Part of the book series: Lecture Notes in Mechanical Engineering ((LNME))

Included in the following conference series:
International Conference on Energy, Materials Sciences & Mechanical Engineering

Abstract

Recent Trends in Non-Traditional Machining of Alloys and Composites

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Author(s): Vinod Kumaar J. R. (Mahendra Engineering College, India), Mythili T. (Mahendra Engineering College, India)and Suganya Priyadharshini G. (Coimbatore Institute of Technology, India)
Copyright: 2022
Pages: 21
Source title: Advanced Manufacturing Techniques for Engineering and Engineered Materials
Source Author(s)/Editor(s): R. Thanigaivelan (Muthayammal Engineering College, India), N. Rajan (Vinayaga Mission Kripananda Variyar Engineering College, India)and T.G. Argul (St. Mary's Engineering College, India)
DOI: 10.4018/978-1-7998-9574-9.ch004
Keywords: Engineering Science Reference / Knowledge Management and Library Science / Manufacturing / Materials Science and Engineering

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View Recent Trends in Non-Traditional Machining of Alloys and Composites on the publisher's website for pricing and purchasing information.

Abstract

In the modern manufacturing era, machining alloys and composite materials enable proper machining methods to get the required shape and dimensions. The usage of alloys and composite materials is increasing in several industries including aerospace, automobile, MEMS, electronics, medical, biomedical, pharmaceutical industries, and so on because of less weight and more strength. Though various methods are available for machining of composites materials and alloys, only electrochemical micro-machining (ECMM) and wire electrical discharge machining (WEDM) are apt for micron-level machining of these materials by complex shapes with good surface quality. This chapter attempts to provide insight into the recent developments in machining of these alloys and composite materials by ECMM and WEDM.

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Chapter

Characterization of Syzygium cumini Particulates-Filled Epoxy Composites

By C. Balaji Ayyanar (/search?contributorName=C. Balaji Ayyanar&contributorRole=author&redirectFromPDP=true&context=ubx), K. Marimuthu (/search?contributorName=K. Marimuthu&contributorRole=author&redirectFromPDP=true&context=ubx), B. Gayathri (/search?contributorName=B. Gayathri&contributorRole=author&redirectFromPDP=true&context=ubx)

Book Intelligent Technologies for Sensors (https://www.taylorfrancis.com/books/edit/10.1201/9781003314851/intelligent-technologies-sensors-kannadhasan-nagarajan-alagar-karthick)

Edition	1st Edition
First Published	2023
Imprint	Apple Academic Press
Pages	6
eBook ISBN	9781003314851

ABSTRACT

< Previous Chapter (chapters/edit/10.1201/9781003314851-4/legendre-neural-network-method-solving-nonlinear-singular-systems-murugesh-veerasamy-subash-chandra-bose-jaganathan-chandramohan-dhasarathan-azath-mubarakali-velmani-ramasamy-kalpana-ninoslav-marina?context=ubx)
Next Chapter > (chapters/edit/10.1201/9781003314851-6/hci-designing-smart-tool-analyzing-human-brain-signals-operating-smart-home-devices-tamilselvi-geetha-anitha-dhanraj-mohanavel?context=ubx)

Advances in Diverse Applications of Polymer Composites (https://www.taylorfrancis.com/books/mono/10.1201/9781003300526/advances-diverse-applications-polymer-composites?refId=8e519568-ab98-42dc-b86e-a229c1295b49&context=ubx)

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Chapter

Characterization of Natural Particulates Filled and E-Glass Fiber-Reinforced Sandwich Polymer Composites

By C. Balaji Ayyanar (/search?contributorName=C. Balaji Ayyanar&contributorRole=author&redirectFromPDP=true&context=ubx), K. Marimuthu (/search?contributorName=K. Marimuthu&contributorRole=author&redirectFromPDP=true&context=ubx)

Book Advances in Diverse Applications of Polymer Composites (https://www.taylorfrancis.com/books/mono/10.1201/9781003300526/advances-diverse-applications-polymer-composites?refId=8e519568-ab98-42dc-b86e-a229c1295b49&context=ubx)

Edition	1st Edition
First Published	2023
Imprint	Apple Academic Press
Pages	18
eBook ISBN	9781003300526

ABSTRACT

< Previous Chapter (chapters/edit/10.1201/9781003300526-1/applications-polymeric-green-composites-biomedical-field-review-dutta?context=ubx)
Next Chapter > (chapters/edit/10.1201/9781003300526-3/review-past-future-aspects-silica-drug-delivery-sensing-applications-harpreet-kaur-gagandeep-kaur?context=ubx)

Machine Learning Paradigm for Internet of Things Applications

Chapter 9

Route Optimization for Perishable Goods Transportation System

A. K. Kowsalyadevi, M. Megala, C. Manivannan

Book Editor(s):Shalli Rani, R. Maheswar, G. R. Kanagachidambaresan, Sachin Ahuja, Deepali Gupta

First published: 04 March 2022
https://doi.org/10.1002/9781119763499.ch9

Summary

The chapter aims to provide an optimal solution to find the most suitable routes for a fleet of vehicles performing the transportation of goods by visiting a set of market hubs. Additionally, the method concentrates to minimize the empty trips that tend to cost, vehicle usage, fuel consumption, manpower, travel time, and CO_2

emission, respectively, thereby avoiding long routes. Primarily, a clustering algorithm is used to classify the market hubs in the entire city and nearby cities based on a threshold time and distance. Subsequently, deciding the optimal group size, the supply depot, and the required number of vehicles to be transported at a particular time and distance is performed. The dynamic approach is possible for the entire region or state as the concluding procedure in distributing the perishable goods on time with the lowest of trash.

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Wallenfeldt , J. , *Agricultural revolution* , ed. Encyclopaedia Britannica, inc, 2015 , https://www.britannica.com/topic/agricultural-revolution

Google Scholar

Analysis of Transient Fault Detection Models

| Conference paper | First Online: 14 December 2021

| pp 733–746 | Cite this conference paper

Recent Trends in Electronics and Communication

(VCAS 2020)

T. Shunbaga Pradeepa & S. Uma Maheswari

Part of the book series: Lecture Notes in Electrical Engineering ((LNEE,volume 777))

Included in the following conference series:
International Conference on VLSI, Communication and Signal processing

Abstract

Fault occurrence is unavoidable in any application. Especially in real time application like automotive, the occurrence of fault results in severe impact. To reduce the impact of failures, it would be better if suitable circuit is available to detect the occurrence of fault and correct it

IoT-Based Model Predictive Control Architecture for HVAC Systems and a Comprehensive Study of Security Issues of 5G and IoT

| Chapter | First Online: 29 October 2021

| pp 117–139 | Cite this chapter

Secure Communication for 5G and IoT Networks

S. Dhanalakshmi & M. Poongothai

Part of the book series: EAI/Springer Innovations in Communication and Computing ((EAISICC))

Abstract

This chapter addresses predictive control for HVAC systems. One of the major radical control techniques is the model predictive control for the difficult multivariate control issues. The

Performance Analysis of Filter Bank Multicarrier System for 5G Networks

| Conference paper | First Online: 11 January 2022

| pp 393–406 | Cite this conference paper

Inventive Communication and Computational Technologies

I. S. Akila, C. Elakkiya, M. Mohana Priya, B. Nivedha & S. Yadhaarshini

Part of the book series: Lecture Notes in Networks and Systems ((LNNS,volume 311))

Abstract

5G technology aims to provide higher data rates, low latency, improved system capacity and, increased reliability for its users. The sync shaped spectrum in Orthogonal Frequency Division Multiplexing (OFDM) leads to large out of band emissions and reduces spectral efficiency. Filter Bank Multicarrier (FBMC) is one of the new waveforms best-suited

2022 | OriginalPaper | Chapter

A Low-Profile Compact EBG Integrated Circular Monopole Antenna for Wearable Medical Application

Authors : Prasad Jones Christydass Sam, U. Surendar, Unwana M. Ekpe, M. Saravanan, P. Satheesh Kumar

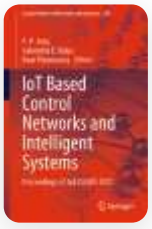
Published in: Smart Antennas

Publisher: Springer International Publishing

Wearable Band for Safety in Chemical Industries

| Conference paper | First Online: 12 October 2022

| pp 603–611 | Cite this conference paper



IoT Based Control Networks and Intelligent Systems

D. Diana Josephine, R. Ajay Kumar, M. Ganesamoorthi, A. Meshwin & M. Athiq Ahmed

Part of the book series: Lecture Notes in Networks and Systems ((LNNS,volume 528))

Abstract

Industrial gas leakage causes accidents and poses several threats to the environment and, many innocent human lives. It is essential to detect the gas leaks in time, and help employees from losing their hope; getting frightened and the industrialists from economy loss. This paper aims for the safety and protection of the employees working in the industry and make them to escape during the adverse situation. The wearable band comes with emergency alarms interfaced with Node MCU, hazardous gas detection sensors, navigators

Printed Antennas (https://www.taylorfrancis.com/books/mono/10.1201/9781003347057/printed-antennas?refId=dbb46446-7d98-477b-a220-a4195ceebd07&context=ubx)

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Chapter

Design of a compact multiband fractal antenna using ANN and firefly algorithm for wireless body area network

By Satheeshkumar Palanisamy (/search?contributorName=Satheeshkumar Palanisamy&contributorRole=author&redirectFromPDP=true&context=ubx), T. Balakumaran (/search?contributorName=T. Balakumaran&contributorRole=author&redirectFromPDP=true&context=ubx), E. Suganya (/search?contributorName=E. Suganya&contributorRole=author&redirectFromPDP=true&context=ubx), T. Prabhu (/search?contributorName=T. Prabhu&contributorRole=author&redirectFromPDP=true&context=ubx), Osamah Ibrahim Khalaf (/search?contributorName=Osamah Ibrahim Khalaf&contributorRole=author&redirectFromPDP=true&context=ubx)

Book Printed Antennas (https://www.taylorfrancis.com/books/mono/10.1201/9781003347057/printed-antennas?refId=dbb46446-7d98-477b-a220-a4195ceebd07&context=ubx)

Edition	1st Edition
First Published	2022
Imprint	CRC Press
Pages	13
eBook ISBN	9781003347057

ABSTRACT

< Previous Chapter (chapters/edit/10.1201/9781003347057-10/design-novel-keyhole-shaped-multiband-mimo-antenna-5g-applications-anshika-shrivastav-pradeep-kamal-yash-deshmukh-patri-upender-yakub-amarjit-kumar-sharma?context=ubx)

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Performance Analysis of OTFS Scheme for TDL and CDL 3GPP Channel Models

| Conference paper | First Online: 18 August 2022

| pp 737–747 | Cite this conference paper

Expert Clouds and Applications

I. S. Akila ✉, S. Uma & P. S. Poojitha

Part of the book series: Lecture Notes in Networks and Systems ((LNNS,volume 444))

Abstract

A new modulation scheme Orthogonal Time Frequency Space modulation (OTFS) modulation is considered for the next-generation mobile communications. It is not affected under higher carrier frequencies and doppler shifts. This paper focuses on the evaluation of OTFS modulation with 3GPP channel models for Quadrature Amplitude Modulation (QAM)

Power Electronics for Green Energy Conversion

Chapter 15

Recent Advances in Fast-Charging Methods for Electric Vehicles

R. Chandrasekaran ✉, M. Sathishkumar Reddy, B. Raja, K. Selvajyothi

Book Editor(s):Mahajan Sagar Bhaskar, Nikita Gupta, Sanjeevikumar Padmanaban, Jens Bo Holm-Nielsen, Umashankar Subramaniam

First published: 06 July 2022
https://doi.org/10.1002/9781119786511.ch15

Summary

In this chapter, the recent developments of DC-DC converters and control strategy for various charging techniques are discussed. The modeling and design of DC fast-charging techniques for electric vehicles is proposed. The proposed method consists of various DC-DC converters as a power conditioning unit, and a suitable charge control scheme is employed. The performance of the conventional charging methods is compared with selected converters for DC fast-charging technique and its feasibility for level 3 charging is addressed. The proposed model is validated through simulation study conducted in MATLAB/Simulink environment for the given EV battery.

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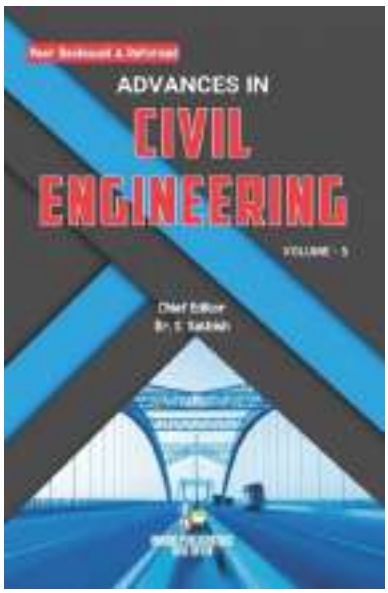
Collin , R. , Miao , Y. , Yokochi , A. , Enjeti , P. , Jouanne , A. , Advanced elec- tric vehicle fast-charging technologies . *Energies* , **12** , 1839 , 2019 . https://doi.org/10.3390/en12101839 .

CAS | Web of Science® | Google Scholar

Krishnamurthy , Mr . V. , Varma , R. , Tribhuvan , S. , Shaikh , A. , Automatic bat- tery charger . *Int. J. Eng. Res. Technol. (IJERT)* , **03** , 05, May 2014 .



Advances in Civil Engineering (Volume - 5)

₹ 738

Chief Editor	:	Dr. S. Sathish
ISBN	:	978-93-90846-74-0
Publisher	:	AkiNik Publications
Language	:	English

Artificial Intelligence to Protect Cyber Security Attack on Cloud E-Learning Tools (AIPCE)

| Conference paper | First Online: 28 February 2022

| pp 29–37 | Cite this conference paper

International Conference on Computing, Communication, Electrical and Biomedical Systems

E. Arul & A. Punidha

Part of the book series: EAI/Springer Innovations in Communication and Computing ((EAISICC))

Abstract

e-Learning is associated with the usage of different network devices to ensure user educational performance. Its platforms are rising as digital media has reinvented business

ScienceDirect

Artificial Intelligence and Machine Learning for EDGE Computing

2022, Pages 343-352

Chapter 23 - An intelligent framework to assess core competency using the level prediction model (LPM)

S. Nithya [a], M. Sangeetha [b], K.N. Apinaya Prethi [a]

https://doi.org/10.1016/B978-0-12-824054-0.00005-8 ↗

Abstract

Today, the internet has flourished exponentially and is doing wondrous modifications in the daily life of the common man. The incredible revolution has occurred in terms of ensuring education in a majority of fields. In this chapter, a smart assessment system application that provides a user-friendly and absolutely flexible platform for the smooth functioning of online examinations is presented. It is designed using PHP, MySQL, Django-PHP, and a Decision Tree Algorithm consisting of five modules. All of these modules greatly contribute to online knowledge testing, online examinations, and finally examination evaluation. It is highly reliable, user friendly, and flexible. Online examination is conducting an online test to know the degree of knowledge of the participants/candidate on a given topic, whereas in the previous era the test would have been conducted at the mentioned time in the classroom. With an online examination, students can take their tests in their convenient place with their own smart devices. This test is used by the user to know their degree of knowledge in their interested area/fields. The questions are generated dynamically based on the answers. This test makes the interviewing process easier. This test has nine levels (Easy-Easy, Easy-Medium, Easy-Hard, Medium-Easy, Medium-Medium, Medium-Hard, Hard-Easy, Hard-Medium, Hard-Hard). The test starts at the Easy-Medium level and based on the user's performance in the current section, the next set of questions is decided dynamically by the system.

Comparing Machine Learning Algorithms and DNN for Anomaly Detection

Apinaya Prethi K. N., Sangeetha M., Nithya S.

Source Title: Real-Time Applications of Machine Learning in Cyber-Physical Systems (/book/real-time-applications-machine-learning/277234)

Pages: 12
DOI: 10.4018/978-1-7998-9308-0.ch011

Abstract

Cyber space became inevitable in today's world. It needs a security technology to safeguard the whole system from outsiders. An intrusion detection system acts as a strong barrier and screens the vulnerability. There is an upgraded amount of network attacks such as DoS (denial of service), R2L (remote to local) attack, U2R (user to root), and probe attack. These network attacks lead to prohibited usage of data from various applications like medical, bank, car maintenance, and achieve activities. This will result in financial gain and prevent authorized persons from accessing the network. Intrusion detection systems were implemented in systems where security is desirable. The conventional system makes use of machine learning techniques such as random forest and decision trees that entail many computational resources and higher time complexity. To overcome this, a DNN-based intrusion detection system is proposed. This IDS not only detects the abnormalities but also results in higher accuracy compared to existing systems. This also improves the speed, accuracy, and stability of the system.

Chapter Preview

Top

Introduction

Intrusion Detection system is used to protect systems from intruders. It is a modern security technology to prevent exploitation. In Internet, security can be compromised through numerous ways. More IoT network, Internet usage and data transfer leads to more anomaly problems. Thus researchers need to focus on self-adaptive intrusion detection systems without any human interaction (Jabez & Muthukumar, 2015). IDS monitor, detect any malicious activity and policy violation in the network. Security systems like firewall, an anti-virus software, etc are also used to protect the system. When an enterprise grows larger, existing security measures is not enough to protect the entire system from intruder. Many times anti-virus software's also gets cooperated by the invaders and leads to false alarm (Aung & Min, 2017). A secured network has Intrusion Management System (IMS) which consists of Intrusion Detection System (IDS) and Intrusion Prevention System (IPS). An IDS detects the malicious activity whereas IPS prevents the network from any malicious activity. Intrusion Detection system will monitor the regular activities in network and classify the normal and abnormal events. It will not make any changes in the

Technology and Health Care

RESEARCH-ARTICLE

Hubness weighted SVM ensemble for prediction of breast cancer subtypes

Authors: S. Raja Sree, A. Kunthavai | Authors Info & Claims

Technology and Health Care, Volume 30, Issue 3 Pages 565 - 578
https://doi.org/10.3233/THC-212825

Published: 01 January 2022 Publication History

Abstract

Background:

Breast cancer is a major disease causing panic among women worldwide. Since gene mutations are the root cause for cancer development, analyzing gene expressions can give more insights into various phenotype of cancer treatments. Breast Cancer subtype prediction from gene expression data can provide more information for cancer treatment decisions.

Objective:

Ensuring the Presence of a Person During Virtual Classes Using Histogram of Oriented Gradients (HOG) Algorithm

| Conference paper | First Online: 02 August 2022

| pp 287–297 | Cite this conference paper

Disruptive Technologies for Big Data and Cloud Applications

S. Nithya, M. Revathi, A. Sathiya Sree, T. Sivapriya & P. Vaishnavi

Part of the book series: Lecture Notes in Electrical Engineering ((LNEE,volume 905))

Abstract

As of now, in the pandemic situation, all the learners, particularly students, participate in various virtual educational activities like attending classes, uploading assignments, watching tutorials, online exams and meetings. A major issue in online learning is to

A Novel Approach for Detecting Online Malware Detection LSTMRNN and GRU Based Recurrent Neural Network in Cloud Environment

| Conference paper | First Online: 04 July 2022

| pp 1–9 | Cite this conference paper

Rising Threats in Expert Applications and Solutions

M. Prabhavathy, S. Uma Maheswari, R. Saveeth, S. Saranya Rubini & B. Surendiran

Part of the book series: Lecture Notes in Networks and Systems ((LNNS,volume 434))

Abstract

Now a day's most of the organizations depend on cloud infrastructure for application, storage and real time access perspective. Cloud based application save as a backbone to organization in terms of maintainability, scalability and management underlying

Conference Paper

Deep Learning based Behavioral Analysis and Exploration of Emotions in ASD Children

February 2022

DOI:10.1109/ICAIS53314.2022.9742842

Conference: 2022 Second International Conference on Artificial Intelligence and Smart Energy (ICAIS)

Authors:

S. Poornima **G. Kousalya**

Elderly Care Using Generative Adversarial Networks (GANs) on Deep Video Analysis

| Conference paper | First Online: 28 February 2022

| pp 61–69 | Cite this conference paper

Micro-Electronics and Telecommunication Engineering

(ICMETE 2021)

S. Rajasekaran & G. Kousalya

Part of the book series: Lecture Notes in Networks and Systems ((LNNS,volume 373))

Included in the following conference series:
International Conference on Micro-Electronics and Telecommunication Engineering

Abstract

A Novel Approach for Detecting Online Malware Detection LSTMRNN and GRU Based Recurrent Neural Network in Cloud Environment

| Conference paper | First Online: 04 July 2022

| pp 1–9 | Cite this conference paper

Rising Threats in Expert Applications and Solutions

M. Prabhavathy, S. Uma Maheswari, R. Saveeth, S. Saranya Rubini & B. Surendiran

Part of the book series: Lecture Notes in Networks and Systems ((LNNS,volume 434))

Abstract

Now a day's most of the organizations depend on cloud infrastructure for application, storage and real time access perspective. Cloud based application save as a backbone to organization in terms of maintainability, scalability and management underlying

An Enhanced Deep Learning Technique for Crack Identification in Composite Materials

https://doi.org/10.1007/978-981-99-0981-0_26

Journal: Advances in Data-driven Computing and Intelligent Systems Lecture Notes in Networks and Systems, 2023, p. 337-348

Publisher: Springer Nature Singapore

Authors: Saveeth Ramanathan, Uma Maheswari Sankareswaran, Prabhavathy Mohanraj

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Chapter

Characterization of Syzygium cumini Particulates-Filled Epoxy Composites

By C. Balaji Ayyanar (/search?contributorName=C. Balaji Ayyanar&contributorRole=author&redirectFromPDP=true&context=ubx), K. Marimuthu (/search?contributorName=K. Marimuthu&contributorRole=author&redirectFromPDP=true&context=ubx), B. Gayathri (/search?contributorName=B. Gayathri&contributorRole=author&redirectFromPDP=true&context=ubx)

Book Intelligent Technologies for Sensors (https://www.taylorfrancis.com/books/mono/10.1201/9781003314851/intelligent-technologies-sensors?refId=a02d475b-b685-4e2e-b245-06246bab99b2&context=ubx)

Edition	1st Edition
First Published	2023
Imprint	Apple Academic Press
Pages	6
eBook ISBN	9781003314851

ABSTRACT

< Previous Chapter (chapters/edit/10.1201/9781003314851-4/legendre-neural-network-method-solving-nonlinear-singular-systems-murugesh-veerasamy-subash-chandra-bose-jaganathan-chandramohan-dhasarathan-azath-mubarakali-velmani-ramasamy-kalpana-ninoslav-marina?context=ubx)
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Maximum Relevancy and Minimum Redundancy Based Ensemble Feature Selection Model for Effective Classification

| Conference paper | First Online: 31 August 2022

| pp 131–146 | Cite this conference paper

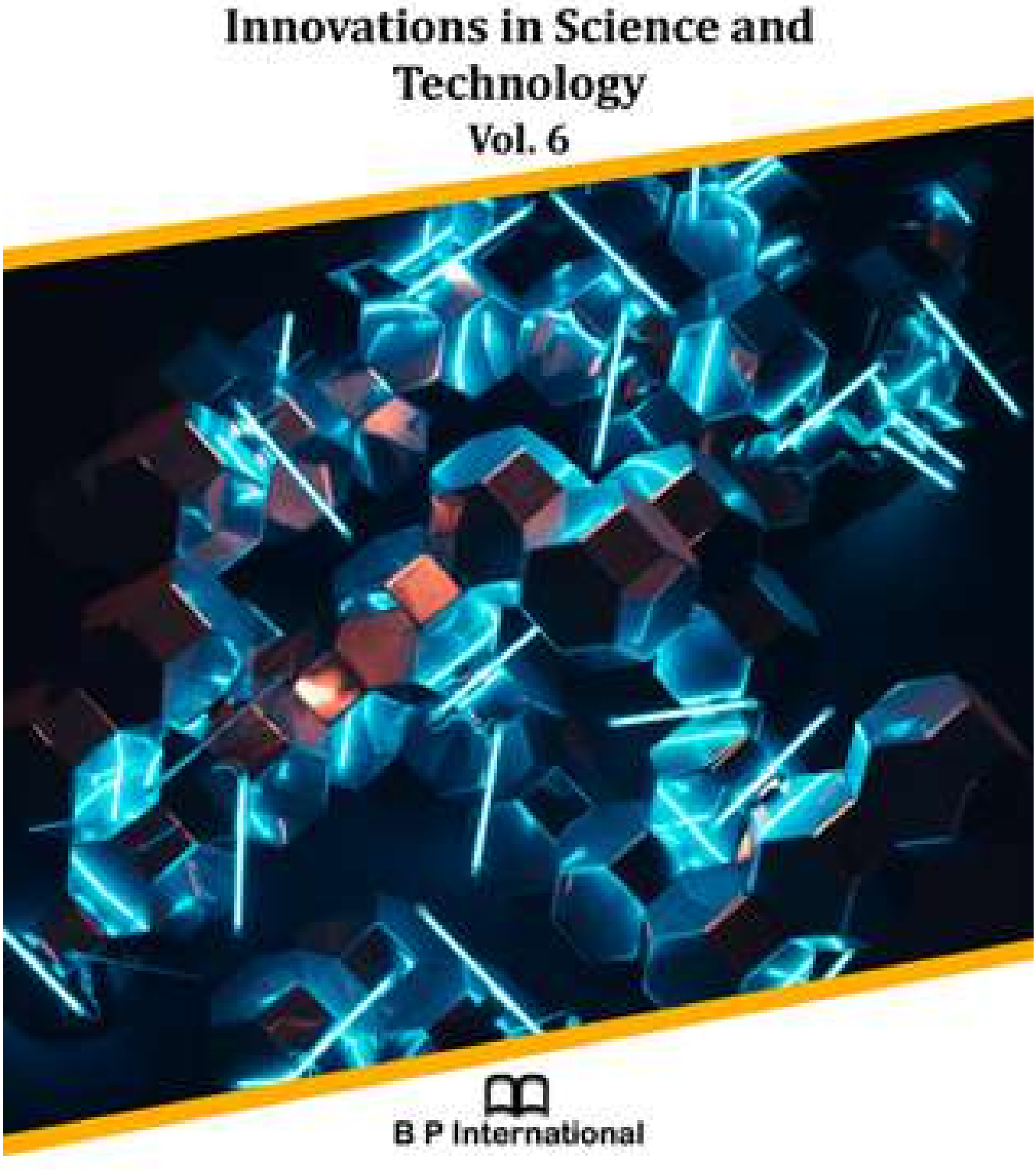
Advanced Computing and Intelligent Technologies

A. Saravanan, C. Stanly Felix & M. Umarani

Part of the book series: Lecture Notes in Electrical Engineering ((LNEE,volume 914))

Abstract

Feature selection algorithms are widely used in most of the critical applications of machine learning, pattern recognition, disease diagnosis and fraud identification. Specifically, due to the existence of redundant and irrelevant attributes, the performance of the underlying



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Usability Analysis of Biometric Authentication Scheme for Smart Mobile Devices

M. Sujithra ; G. Padmavathi

Innovations in Science and Technology Vol. 6, 5 March 2022, Page 153-161
https://doi.org/10.9734/bpi/ist/v6/3277E (https://doi.org/10.9734/bpi/ist/v6/3277E)
Published: 2022-03-05

Abstract

Over the past few years, the usage of mobile devices to access data has becoming more frequent, and the usage of mobile devices in the applications such as web-browsing, email, multimedia, entertainment applications, navigation, trading stocks, electronic purchase, banking, and health care are increased, therefore data security is essential, and it becomes a challenge in securing the data in the mobile device. Over the years, criminals have learned to crack passwords and fabricate biometric traits and have conquered practically every kind of user-authentication mechanism designed to stop them from accessing device data. Stronger mobile authentication mechanisms are clearly needed. To address these problems in the mobile devices, biometric system can be developed which are more secure, affordable, and memorable authentication scheme based on graphical assistance, images, and audio. We believe that biometric authentication is the most secure approach among other authentication mechanism. It is preferred to apply biometrics for the security of Mobile devices and improve reliability. This paper discusses the various features of biometrics authentication schemes and mobile device security threats.

Keywords: Biometrics; mobile device; authentication; threats; security

Maintaining Performance and QoS of Software Tools for Remote Teaching Environment

| Chapter | First Online: 25 August 2023

| pp 195–245 | Cite this chapter

Sustainable Blended Learning in STEM Education for Students with Additional Needs

S. Gayathri Devi, S. Manjula Gandhi, C. Sathya, S. Chandia & K. H. Vani

Part of the book series: Contributions to Environmental Sciences & Innovative Business Technology ((CESIBT))

Abstract

The use of new technology to distribute education has been enhanced as a result of Covid-19. Institutions of higher learning have loosened to blended learning. They qualified

Effective Classification of Autism Spectrum Disorder Using Adaptive Support Vector Machine

| Conference paper | First Online: 16 May 2022

| pp 427–440 | Cite this conference paper

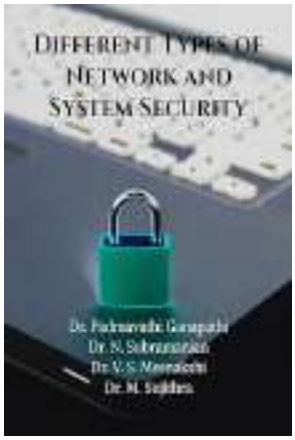
ICCCE 2021

Bindu George & E. Chandra Blessie

Part of the book series: Lecture Notes in Electrical Engineering ((LNEE,volume 828))

Abstract

Medical science today produces a great amount of data. Medical field is loaded with rich set of data with evidence and can be helpful in making decision. Autism Spectrum Disorder (ASD) is a category of neurodevelopmental diseases that cannot be cured but are mitigated by early diagnosis and intervention. Early diagnosis and prevention is more critical than



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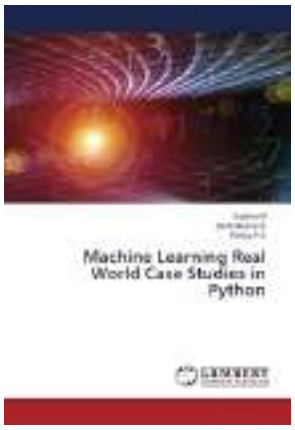

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Circular Economy Policies in the Concrete Production

| Conference paper | First Online: 12 June 2023

| pp 433–438 | Cite this conference paper

Global Challenges for a Sustainable Society

(EURECA-PRO 2022)

P. Jagadesh, T. Karthik Prabhu, Jesús de Prado-Gil, Víctor Baladrón-Blanco, Daniel Merino-Maldonado, Andrea Antolín-Rodríguez, Andrés Juan-Valdés & Rebeca Martínez-García

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Included in the following conference series: EURECA-PRO Conference on Responsible Consumption and Production

Abstract

2022 | OriginalPaper | Chapter

Throughput Enhancement in Wireless Sensor Network by Novel Genetic Algorithm–Fuzzy Method (NGA-F)

Authors : N. Prakash, M. Rajalakshmi, R. Nedunchezhian

Published in: Recent Trends in Electronics and Communication

Publisher: Springer Nature Singapore

Abstract

Demodulating the unsafe hubs along with reducing the vitality squander in sensor hubs can drag out the life expectancy of remote sensor systems. By doing the examination, adaptive heuristic search algorithms and an adaptive neuro fuzzy inference system (ANFIS) framework were utilized to lessen the vitality misuse of sensors. Biased trust assessment was connected to look for unsafe hubs in the system for drawing out the life expectancy of the sensor network. Low-vitality versatile grouping chain that has some importance strategies were utilized for breaking down the outcomes. It was found that looking for destructive hubs having genetic algorithm (GA)—Adaptive Network-based Fuzzy Inference System

Static and Dynamic Hand Gesture Recognition for Indian Sign Language

| Conference paper | First Online: 30 September 2021

| pp 48–66 | Cite this conference paper

Machine Learning and Big Data Analytics (Proceedings of International Conference on...

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A. Susitha, N. Geetha, R. Suhirtha & A. Swetha

Part of the book series: Lecture Notes in Networks and Systems ((LNNS,volume 256))

Included in the following conference series:
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Abstract

IoT Technologies and Machine Learning Algorithms on Diabetes Prediction-Survey

| Conference paper | First Online: 26 February 2022

| pp 869–876 | Cite this conference paper

Proceedings of Second International Conference on Sustainable Expert Systems

G. Thilagavathi, N. K. Karthikeyan, G. Priyadharshini & G. Lavanya

Part of the book series: Lecture Notes in Networks and Systems ((LNNS,volume 351))

Abstract

Diabetes disease is characterized by gradual increase of blood glucose in body. Early prediction of diabetes is needed which can help to shorten the illness and lessen its severity. Serious health problems may occur due to Diabetes. Diabetes has no cure but the steps taken

Early Breast Cancer Detection from Blood Plasma Using Hubness-Aware Adaptive Neural Network with Hybrid Feature Selection

| Conference paper | First Online: 23 March 2022

| pp 503–514 | Cite this conference paper

High Performance Computing and Networking

S. Raja Sree & A. Kunthavai

Part of the book series: Lecture Notes in Electrical Engineering ((LNEE,volume 853))

Abstract

Breast cancer is a complex and heterogeneous disease prevalent amongst women leading to mortality. Breast cancer diagnosis at the early stages of tumour development can increase the survival rate of women suffering from breast cancer. The most prevalent mammogram

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Principles of Management Kindle Edition

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Medical Imaging and Health Informatics

Chapter 4

Early Detection of Breast Cancer Using Machine Learning

G. Lavanya ✉, G. Thilagavathi

Book Editor(s):Tushar H. Jaware, K. Sarat Kumar, Ravindra D. Badgujar, Svetlin Antonov

First published: 29 May 2022
https://doi.org/10.1002/9781119819165.ch4

Summary

According to cancer statistics, breast cancer is the major causes of cancer death, and it is more common in women than men. A total of 50% to 80% of breast cancer usually occur over the age of 50. However, nowadays, due to lack of proper nutrition, it arises earlier. It is very difficult to diagnose for the doctors. If it is identified earlier, then we have better treatment and cure earlier. Usually, two different abnormalities present in the breast cancer micro calcification and masses. Out of which, first condition, i.e., micro calcification, is considered as benign so there is less severity. We can treat the problem and cannot spread to different parts of the body. However, masses present in breast adipose tissue make it difficulty to identify, and it can be spread to other regions of the human body [1, 2]. To overcome this problem, computer-aided diagnosis was developed, which is very helpful for the doctors and act as a second reader to the radiologist who is helpful for identifying the breast cancer which makes the right decisions at a correct time. Here, modality chosen to detect breast cancer is mammography.

Current breast cancer identification methods are experimental so it is difficult to diagnose it earlier. Hence, the use of probability algorithm is to identify and diagnose the breast cancer. It is divided into three categories: feature extraction, segmentation, and classification [11-13]. Features are extracted with the help of human expert knowledge. Various features were extracted from the image. Extracted features are segmented with the help of segmentation algorithm. Here, we have chosen region growing segmentation algorithm, and after segmentation, it goes to final step classifier. Probability classifier such as naive bayes was selected as a classifier that helps to identify the breast cancer mass [5-10].

The radial basis function neural network (RBFNN) is an artificial neural network, which helps to classify the abnormal region, and it has good knowledge and estimate capabilities. Probabilistic classifier such as naive Bayes algorithm was selected, and it is based on the

Book

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eBook Published	16 June 2022
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Garbage Segregator Using Deep Learning

| Conference paper | First Online: 18 August 2022

| pp 233–247 | Cite this conference paper

Smart Data Intelligence

V. Abinandan, G. Thilagavathi, M. Gokulram & M. Sankarraj Aditya

Part of the book series: Algorithms for Intelligent Systems ((AIS))

Abstract

With the rapid economic development and increase in population, the amount of garbage is increasing rapidly. According to the latest report by MoEFCC, only 75–80% of the total municipal waste is collected in India in which only 22–28% is processed and treated. Garbage detection plays major role in monitoring the environment in large areas. However, the traditional approach of manual patrolling is time-consuming and requires more labor, and this paper proposes a method for monitoring and segregating garbage using Real-time

Enhanced Residual Connections Method for Low Resolution Images in Rice Plant Disease Classification

| Conference paper | First Online: 29 September 2022

| pp 271–284 | Cite this conference paper

Computational Intelligence in Data Science

(ICCIDS 2022)

K. Sathya & M. Rajalakshmi

Part of the book series: IFIP Advances in Information and Communication Technology ((IFIPAICT,volume 654))

Included in the following conference series: International Conference on Computational Intelligence in Data Science

Abstract

2022 | OriginalPaper | Chapter

Design of Mobile Application for Farmers

Authors : S. Gayathri Devi, S. Chandia, K. Saraswathi

Published in: Futuristic Trends in Networks and Computing Technologies

Publisher: Springer Nature Singapore

Design of Mobile Application for Farmers

| Conference paper | First Online: 16 November 2022

| pp 165–183 | Cite this conference paper

Futuristic Trends in Networks and Computing Technologies

S. Gayathri Devi, S. Chandia & K. Saraswathi

Part of the book series: Lecture Notes in Electrical Engineering ((LNEE,volume 936))

Abstract

India is a global agricultural powerhouse, with farmers and other related workers serving as its backbone. The agricultural environment, like many other industries, is plagued by long-standing issues and unanticipated challenges that must be addressed. This study has taken a look at some of the most pressing concerns that farmers have. We identified problems in conveying correct and timely information about the crops to grow, weather, pesticides, fertilisers, various government schemes on agriculture, disease detection methods. The

BUSINESS INTELLIGENCE ON RETAIL DATA – A DECISION-MAKING TOOL THROUGH A DASHBOARD

A. Kannammal, M. Sarathram, R. Gokulavasan,

Dept. of Decision and Computing Sciences, Coimbatore Institute of Technology, Coimbatore.
Email: 1833014mdcs@cit.edu.in

Abstract.

Transactions made in superstore data are extremely useful for the turn of events and can likewise be utilized to forecast future sales and to study past business challenges. The utilization of Business Intelligence apparatuses can assist with breaking down a lot of information including quality investigation and company examination. This undertaking was planned to utilize BI way to deal with examining the information. The research focuses on reporting the data regarding the sales and profits acquired. This project also uses OLAP operations to describe data visualization with help of Bivariate Analysis such that it provides better benefits and competitive advantage. Business Intelligence is supposed by organization pioneers to have the option to comprehend the information that will have been handled in figuring out visual structures and can undoubtedly retain the data expected to pursue choices for the organization.

Keywords: Business Intelligence, Retail Analysis, Bivariate Analysis, OLAP, Kibana, Dashboard, Decision Tool.

1. INTRODUCTION

SuperStore is a retail business area in the United States. It includes organizations that work by having enormous size spaces which store and supply a lot of merchandise. To support this, Superstore needs a dashboard that it helps in making decisions and managing data so that they can add valuable advantages to support the existing business processes. Also, this system analyzes the data to recognize feeble regions and chances to help business development. The analysis also gives insights into the sales and profit of various products. The organization of the paper goes with the problem definition, briefing the existing problem in the society and the need for the system for effective decision making through visual tools, dashboard and continued by the objectives of the proposed system. The pre-processing and Exploratory Data Analysis depicts the process implemented and concepts used to derive insights from dynamic data; accompanied by the process flow which picturizes about the module and tools used for analysis and their overview. The results and discussion describe the dashboard approach and various charts used for real time insights on data. The future scope describes the possible future works that might be undertaken to benefit the society and mankind. The conclusion part describes the decision making in the management domain by dynamic dashboard.

2. LITERATURE REVIEW

In existing systems [1] the basic analysis is done about the data and exploratory data analysis is done based on various approaches. Performing further analysis using the difference between the order date and shipment date. Also, some customer-level analyses are made

DYNAMIC DASHBOARD FOR REAL TIME INSIGHTS ON COVID-19

A. Kannammal, R.R. Venketesz,
Dept. of Decision and Computing Sciences, Coimbatore Institute of Technology. Coimbatore.
E-mail: venkeytesz@gmail.com

Abstract

The dashboard approach derives insights into dynamic data from Worldometer and derives various insights for the specific country and of the dynamic covid data which changes over time. The proposed system gives a dashboard which is an interactive and user-friendly visual tool for worldwide covid cases. The proposed system computes and derives insights as plots on Population Immunity, Recovery, and Risk with the population for the data by computing the probability on a statistical basis. The infection rates among the population based on countries are being compared by using plots and by statistics metrics. The countries and their level of risk of infection are being computed and visualized geographically. The level of recovery based on population and covid cases is analyzed and visualized in the dashboard. To visualize the behavior and trend nature of Covid-19, the proposed system follows a dashboard approach. The proposed system helps to identify the pattern, and trend of covid cases, and the nature of the spreading of the coronavirus geographically by the dashboard which could help WHO and health department officials in decision-making.

Keywords. COVID-19 dashboard, data visualization, Business Intelligence, recovery and risk with population, population Immunity.

1. INTRODUCTION

Covid 19 or Coronavirus is a pandemic and a communicable disease spreading globally and it is caused by the Severe Acute Respiratory Syndrome known as the SARS-CoV-2 virus. The first case was recorded in China, in a city named Wuhan, in November 2019. There was an exponential increase in the growth and spreading of the disease covid-19 worldwide. Several global countries had made statements of lockdown in the initial stages and drove vaccination to overcome this disease. This study shows the total active cases of covid 19, total deaths due to covid 19, and insights about immunity, and recovery in various countries and worldwide in a dashboard approach.

Dashboards help in decision-making and support behavior change. The user could derive insights about the virus and the growth and spreading nature of the virus globally in PowerBI. Based on the live covid data, the pattern, nature, and trend of the virus should be visualized as a dashboard approach and the insights should be analyzed for decision-making

CONTENTS

SUSTAINABLE DEVELOPMENT IN THE NEW NORMALCY- ROLE OF ELECTRIC VEHICLES

Dr. R. Jayanth[1], Akash S[2] & Sathish[3]
[1]*Associate Professor,Department of Management studies, Coimbatore Institute of Technology, Coimbatore*
[2,3] *Student, Department of Management studies, Coimbatore Institute of Technology, Coimbatore*

Abstract: The whole world is trying to understand what changes may result in longer-term alterations of societal and organizational behaviour in the aftermath of the coronavirus disease 2019 (COVID-19) outbreak over the last few months as we struggled with making near-term adjustments to our lives in the couple of years to come back to normalcy. Due to social demand, electric vehicles are emerging as a possible strategy for decarbonization and green transportation. As the demand for sustainable development in the electric vehicle industry grows, researchers have made numerous efforts and initiatives. This study examines relevant industry research and thus investigates electric vehicle industry development trends by examining the usage among the respondents, its advantages and disadvantages. The research paper is prepared using qualitative approach. The pollution in the country is increasing day by day as the usage of vehicles and the people are also increasing simultaneously. Electric vehicles are being considered as one such solution to the problem of pollution in the country. It is also seen that Government has also taken necessary steps to implement the usage of EV by the people of the country. This paper gives you a wide clarity regarding the perspective of the Electric Vehicles and its level of sustainability in the future.

Keywords: *Electric Vehicles. EV, Sustainable, New normal.*

EXPLORING THE CONCEPT OF EMPLOYEE SILENCE IN CONTEXT OF ARTIFICIAL INTELLIGENCE IN HEALTHCARE SECTOR

Jaspreet Kaur[1], Dr.Rupali Arora[2]
[1]*Research Scholar, University school of Business, Chandigarh University, Mohali, India*
[2]*Professor, University school of Business, Chandigarh University, Mohali, India*

Abstract: Artificial intelligence and the growth of health-care information technology have resulted in instruments to improve the quality of many health-care processes. Employee opinions of artificial intelligence application in Indian context have been the subject of few researches. Furthermore, scarce research looked into the influence of artificial intelligence in creating fear among employees leading to a tendency to remain silent. The present study is an exploratory in nature to look into how nursing staff in private hospitals in Punjab felt about the use of artificial intelligence technology in their workplaces. The study also aims to explore the multi-dimensionality of silence behavior of healthcare employees. Acquiescent silence, Defensive silence and Pro-social silence were investigated as the dimensions of silence behavior of employees using exploratory and confirmatory factor analysis (CFA).

Keywords-*Artificial intelligence, Employee Silence, Private Hospitals, Nursing staff*

GENDER REPRESENTATION AND DIVERSITY IN MASS MEDIA

and loyalty. Most employees in automobile retail showrooms today undergo motions of crumbling trust, stifled creativity, jarring uncertainty, distance between managers and employees and vanishing loyalty and commitment. Either management are ignorant of these symptoms or do not want to recognize them, as they would have to do something about it. Emotional intelligence calls for recognizing and understanding of these issues in retail showrooms. The study mainly aimed to know the emotional intelligence practices among the relationship managers in four-wheeler automobile retail showrooms of Erode District. 100 relationship managers were chosen as a sample and multistage sampling was adopted in this study. Emotional competencies are not just innate talents but are learned capabilities as well. It is also noteworthy that promoting social and emotional learning, since the young age, has a positive impact on the emotional intelligence of an individual. It can be developed, regulated and increased throughout life in order to achieve success especially in the areas where intelligence in itself is not enough.

Keywords: Automobile, Relationship, Emotional intelligence, Showroom, Competencies.

GENDER REPRESENTATION AND DIVERSITY OF ADVERTISEMENTS IN MASS MEDIA

Dr. Thilaga, Assistant Professor, Dept of Management studies, Coimbatore Institute of Technology

Mouna Prabha, MBA I year, Department of Management studies, Coimbatore Institute of Technology

ABSTRACT

The goal of this paper is to highlight the role of gender representation and diversity in advertising. Gender portrayals in advertising have been extensively studied over the last five decades and still it continues to be an important topic amidst others. Gender portrayal in advertising has long been a contentious and extensively researched topic in many developed and developing countries. This article examines on the portrayal of women in advertising where a questionnaire was used to collect the primary data from 57 respondents and was analyzed with SPSS. Changing family and labor-force roles have resulted in significant variation in both male and female roles, as well as how they are reflected in advertising. There is a cultural lag which has been observed. It concentrates on influence of advertisements due to gender favoritism. For a long time, sexes in advertising

CONSUMER PREFERENCE ON FOOD HUBS AND EATERIES WITH REFERENCE TO COIMBATORE CITY

Dr. Gokul Kumar S[1], Athish R R[2] & Harshitha M[3]
[1]*Academician, Department of Management Studies, Coimbatore Institute of Technology*
[2,3]*Student, Department of Management Studies, Coimbatore Institute of Technology*

Abstract: The effects of India's rapidly expanding economy can be seen in the lifestyle changes its consumers with special reference to preference for food hub sand eateries.The number of people dining out is increasing as more women are working, as people live busier lives than before, with more night shift works, more grow thin the technology and as they have moredis posable income. The current paperatt empts to analyze consumers' food hub and eateries preferences using a survey conducted outside of restaurants and segmented them based on these preferences of Gen X, Y, Z and Baby Boomers. There search focuses on consumer behavior pattern and trends on choosing an eatery which would help the budding entrepreneurs and food enthusiasts who are about to start new food ventures in and around Coimbatore. The survey which has been conducted on residents of Coimbatore helps us to find the changing preferences on selecting an eatery based on select key parameters. The research findings will provide suggestions on how consumer preferences converge and their relative positions in dealing with restaurant preferences. This research analysis estimates the importance of various key factors that affect the choice of food outlets chosen by consumers in Coimbatore city. Further, the research findings will have implications for both researchers and entrepreneurs.

Keywords: *Consumer Preferences, Food Hub, Eateries, Marketing, Lifestyle Changes*

CHANGES IN CONSUMPTION BEHAVIOURS DURING THE COVID-19 PANDEMIC

Dr. Gangu Naidu Mandala[1], Prof. Soumya V[2] & Dr Karthick Chitrarasu[3]
[1,2,3]*Academician, Department of Professional Studies, CHRIST Deemed to be University, Bengaluru*

Abstract: The purpose of this study was to determine how people's purchasing patterns changed during the COVID-19 outbreak and what factors influenced consumption expenditure in India. In the study, which was based on 100 survey data samples collected in 2021 and 2022, it was discovered that consumption spending decreased throughout the pandemic. The amount of money spent on lodging, food, and beverages did not alter considerably from levels prior to the epidemic. Spending on clothing, recreation, and education, on the other hand, has fallen during the past few years. It was shown that age, family size, and household income all had significant effects on changes in expenditures. For inhabitants throughout the epidemic, online shopping became an indispensable alternate mode of purchasing, and the trend is expected to continue when the outbreak has ended. Based on the findings, two points have been developed to summarize the recommendations. First and foremost, young and single citizens are the key group responsible for recovering consumption in the areas of apparel, recreation, education, and public transportation, among other things. Meanwhile, the government should pass laws to improve the overall quality of goods and services that are available for people to buy online.

Keywords: *Consumption Behaviors, COVID-19 Pandemic, Influence And Change, Driving Determinant.*

 ISBN : 978-93-5627-804-2

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Dr. Thilaga[1], Mouna Prabha[2] & Mukesh[2]
[1]*Visiting Faculty, Dept of Management studies, CIT*
[2,3]*Student, Department of Management studies, CIT*

Abstract: The goal of this paper is to highlight the role of gender representation and diversity in advertising with respect to mass media. Gender portrayals in advertising have been extensively studied over the last five decades and still it continues to be an important topic amidst others. Gender portrayal in advertising has long been a contentious and extensively researched topic in many developed and developing countries. For long years' women have been depicted with the role of recreational, home maker but with the change in the role of women in advertisements is a clear indication of change in the society. The media have started to portray women as change maker in the society and a strong influencing medium in any decisions. It has stopped depicting them as a weaker sex and submissive in nature. This article examines on the portrayal of women in advertising where a questionnaire was used to collect the primary data from 57 respondents and was analyzed with SPSS. Changing family and labor-force roles have resulted in significant variation in both male and female roles, as well as how they are reflected in advertising. There is a cultural lag which has been observed. It concentrates on influence of advertisements due to gender favoritism. For a long time, women sexes in advertising were depicted in more modern roles. Women were portrayed in a positive light in comparison to their potential and capabilities, data indicating a greater shift toward more positive role portrayals. But there also exists a small biasness in the minds of people as Indian society is still in its infancy stage of conversion into a modern society.

Keywords: *Advertisements, Mass Media, Gender Diversity, Representation*

THE NEW NORMAL IN HUMAN RESOURCES MANAGEMENT – BUILDING THE FUTURE WORKFORCE

Dr John Rudolph Raj[1], Ragulkumar S[2] & Dhivya Prabha A[3]
[1]Professor & Head, Department of Management Studies, Coimbatore Institute of Technology, Coimbatore
[2,3]Student, Department of Management Studies, Coimbatore Institute of Technology, Coimbatore

Abstract: For years, work has been in a state of transition, driven by powerful forces of disruption such as demographic shifts, the changing nature of careers, and relentless technological advances. When the global coronavirus pandemic struck, it accelerated the pace of change and heightened concerns about how to prepare for the future of work especially for Human Resource Management. At the same time, organizations around the world are dealing with what the World Economic Forum referred to as a 'reskilling emergency'. Challenges are there in every job and role performed and for Human Resources it is slightly more as it is one of the most demanding corporate positions. This paper tries to evaluate the role of Human Resource managers in building the future workforce, for which a set of Human Resources employees where surveyed using a questionnaire and the results were analyzed. The findings suggest that new organizational models have to be established to fit into the new normal as well as to sustain the employees and reduce the attrition level.

Keywords: *Human Resources, Workplace, Issues, Challenges, Future, New Normal*

CONSUMER PREFERENCE ON FOOD HUBS AND EATERIES WITH REFERENCE TO COIMBATORE CITY

Dr. Gokul Kumar S[1], Athish R R[2] & Harshitha M[3]
[1]Academician, Department of Management Studies, Coimbatore Institute of Technology
[2,3]Student, Department of Management Studies, Coimbatore Institute of Technology

Abstract: The effects of India's rapidly expanding economy can be seen in the lifestyle changes its consumers with special reference to preference for food hub sand eateries.The number of people dining out is increasing as more women are working, as people live busier lives than before, with more night shift works, more grow thin the technology and as they have moredis posable income. The current paperatt empts to analyze consumers' food hub and eateries preferences using a survey conducted outside of restaurants and segmented them based on these preferences of Gen X, Y, Z and Baby Boomers. There search focuses on consumer behavior pattern and trends on choosing an eatery which would help the budding entrepreneurs and food enthusiasts who are about to start new food ventures in and around Coimbatore. The survey which has been conducted on residents of Coimbatore helps us to find the changing preferences on selecting an eatery based on select key parameters. The research findings will provide suggestions on how consumer preferences converge and their relative positions in dealing with restaurant preferences. This research analysis estimates the importance of various key factors that affect the choice of food outlets chosen by consumers in Coimbatore city. Further, the research findings will have implications for both researchers and entrepreneurs.

Keywords: *Consumer Preferences, Food Hub, Eateries, Marketing, Lifestyle Changes*

CHANGES IN CONSUMPTION BEHAVIOURS DURING THE COVID-19 PANDEMIC

Dr. Gangu Naidu Mandala[1], Prof. Soumya V[2] & Dr Karthick Chitrarasu[3]
[1,2,3]Academician, Department of Professional Studies, CHRIST Deemed to be University, Bengaluru

Abstract: The purpose of this study was to determine how people's purchasing patterns changed during the COVID-19 outbreak and what factors influenced consumption expenditure in India. In the study, which was based on 100 survey data samples collected in 2021 and 2022, it was discovered that consumption spending decreased throughout the pandemic. The amount of money spent on lodging, food, and beverages did not alter considerably from levels prior to the epidemic. Spending on clothing, recreation, and education, on the other hand, has fallen during the past few years. It was shown that age, family size, and household income all had significant effects on changes in expenditures. For inhabitants throughout the epidemic, online shopping became an indispensable alternate mode of purchasing, and the trend is expected to continue when the outbreak has ended. Based on the findings, two points have been developed to summarize the recommendations. First and foremost, young and single citizens are the key group responsible for recovering consumption in the areas of apparel, recreation, education, and public transportation, among other things. Meanwhile, the government should pass laws to improve the overall quality of goods and services that are available for people to buy online.

Keywords: *Consumption Behaviors, COVID-19 Pandemic, Influence And Change, Driving Determinant.*

FACETS OF SOCIAL ENTREPRENEURSHIP: AN INTEGRATED MODEL OF EDUCATION AT MARUTHAM FARM SCHOOL, TIRUVANNAMALAI, TAMIL NADU.

Dr.R.Jayanthi[1], Dr.T.Sathya Priya, Associate Professor, Assistant Professor
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Department of Management Studies, Coimbatore Institute of Technology, Coimbatore, Tamilnadu, India

ABSTRACT

Social Entrepreneurship is an endowing process in which people take initiatives by having the objective of creating a good impact over the lives of other people. It is the process by identifying the social issues and striving to achieve the social change by employing the entrepreneurial principles rather than thinking about earning profits. Social Entrepreneurship mainly focuses on creating social capital without measuring the performance in profit or return in monetary terms. Social entrepreneurs can be those individuals who are associated with non-profit and non- government organizations that raise funds through community events and activities. In the modern world, there are several well known social entrepreneurs who have contributed a lot towards the society. Along with social problems, social entrepreneurship also focuses on environmental problems.

This case study aims at exploring a small, alternative, holistic, environmental, multi-cultural, equality-minded, community based farm school named Marutham Farm School located in Tiruvannamalai district, Tamil Nadu, India. The journey of the school, the campus and the land are the result of the passion and energy of several committed individuals and the generous support of a large community of friends and donors from all over the world. Marutham Farm School runs under the umbrella of The Forest Way – a registered non-profit charitable trust involved in education, afforestation, environmental education, organic farming and more. Being an immensely diverse group, originating from extreme cultural and social backgrounds, the richness of integration is a key element of Marutham. In the current world, education is being imbibed with the notion of business rather than having the objective of creating responsible human beings with the holistic growth of children. Marutham farm school follows an integrated approach to education by continuously engaging with the children towards alternative methods of pedagogy by emphasizing the importance of nature.

The study is qualitative in nature. The case study was developed by conducting a scheduled interview with Mr.Govind & Mr.Ram, founders of the school and by visiting the school. Information was also collected from other published sources and school website.

Key Words: ***Social Entrepreneurship, Non-Profit, Marutham Farm School, Responsible Human beings, Integrated Education System.***

Introduction

Social entrepreneurship provides a unique opportunity to challenge, question and also rethink the business concepts from different perspectives. Social Entrepreneurship bridges the gap between financial needs and the actual needs of the society. A social entrepreneur, therefore, is a person who explores business opportunities that have a positive impact on their community, in society or the world. It also builds a strategic vision to create a revolution in the scenario of business models which aims only at profit earning. Social Entrepreneurs inspire people by their meaningful actions which benefit the people at large. The current paper illustrates and explores the concept of social

A SUSTAINABLE MODEL OF COMMUNITY ENGAGEMENT: G 18 PUBLIC CHARITABLE TRUST, COIMBATORE

*Dr.T.Sathya Priya,
Assistant Professor
Department of Management Studies
Coimbatore Institute of Technology

*Dr.R.Jayanthi
Associate Professor
Department of Management Studies
Coimbatore Institute of Technology

ABSTRACT

G18 Public Charitable Trust was registered in 2006 to plunge into social activities. G-18 Tr setup in Coimbatore focusing on building up Youth Leadership through societal contributi 18 works on various projects that have immense benefits for the society. The Motto is alwa provide support to the needy, uplift poor people and develop Youth Volunteerism and leade One of the major aim and aspiration of G 18 is to make the student community to be equ with Next Generation leadership qualities. The structure of G-18 is built by the strengt pillars and conceptual values. There are 7 pillars under which various projects are undertaken. The 7 pillars are Art & Culture, Biosphere, Community health, Discovery Education, Finance and Governance. G18 has rich experienced staff with more than 15 ye social work and with strong educational background. The youth community from various le institutions of Coimbatore is engaged in almost all the projects of G-18. The college and s students associated with G-18 are trained in various skill sets. Volunteerism, Organizing E Networking with other Social Organizations, Internship etc are the major skill set orientati G-18. The basic design of the model is that the people approach or the members identify th of development by themselves and device solutions for them in a feasible way. They com and seek solution for their issues, so that they self-sustain. This type of service mode combination of public participation, involving society and service development model. It a an outstanding and sustainable model of community engagement in the society with the gi efforts by engaging people in different social activities and brings about development amo individuals and society at large.

ISBN: 978-93-94428-45-4

Advances in Materials Processing and Manufacturing Applications

Proceedings of iCADMA 2020

| Conference proceedings | © 2021

Overview

Editors: Amar Patnaik, Ernst Kozeschnik, Vikas Kukshal

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3D Printed Personalized Orthotic Inserts Using Photogrammetry and FDM Technology

| Chapter | First Online: 22 April 2021

| pp 349–361 | Cite this chapter

Fused Deposition Modeling Based 3D Printing

T. Ravi, Rajesh Ranganathan, S. P. Ramesh & Devendra Singh Dandotiya

Part of the book series: Materials Forming, Machining and Tribology ((MFMT))

Abstract

Orthotic shoe inserts are the most prominent fixtures used in shoes/sneakers of the sportspersons to accurate biomechanical foot issues. One size fits all doesn't work in these cases, as foot shape, curvature, and arch height from person to person differs. As of now, personalized inserts are very expensive due to the conventional manufacturing approach. With improved manufacturing technology, additive manufacturing the future is looking


Scholars' Press
Copper Surface Composites by Friction Stir Processing

Blockchain Technology: A Concise Survey on Its Use Cases and Applications

B. Suganya, I. S. Akila · Jul 26, 2020

1 Citations 0 Influential Citations

Algorithms for Intelligent Systems
UNKNOWN SJR score

Study snapshot

Extracted 0/7 study attributes

Key takeaway

Blockchain technology offers immutable, translucent data storage and transaction recording for various use cases and applications in various industries.

Abstract

The concepts of blockchain were introduced by Satoshi Nakamoto, a simple digital platform for recording and

Interference Management Technique for LTE, Wi-Fi Coexistence Based on CSI at the Transmitter

| Conference paper | First Online: 02 July 2021

| pp 255–267 | Cite this conference paper

Applied Soft Computing and Communication Networks

D. Diana Josephine & A. Rajeswari

Part of the book series: Lecture Notes in Networks and Systems ((LNNS,volume 187))

Abstract

Coexistence of wireless devices is a better option when devices operate in 2.4/5 GHz unlicensed radio spectrum. In recent times, LTE and Wi-Fi are the most promising wireless technologies that coexist. Joint operation of LTE and Wi-Fi in the same license-exempt

LoRa-Based Infrastructure for Medical IoT System

| Conference paper | First Online: 21 July 2021

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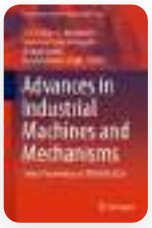

Advances in Industrial Machines and Mechanisms

P. Muthu Subramanian & A. Rajeswari

Part of the book series: Lecture Notes in Mechanical Engineering ((LNME))

Abstract

Internet of Medical Things or Medical Internet of Things (MIoT) is an emerging infrastructure to advance e-health services with the organized medical devices. In the context of Internet of Things, medical applications are considered to be a critical. With the emerging paradigm of medical IoT, it is important to improve and analyze every part of the IoT infrastructure for the development of a reliable platform. This system proposes a health

Future Trends in 5G and 6G (https://www.taylorfrancis.com/books/edit/10.1201/9781003175155/future-trends-5g-6g-mangesh-ghonge-ramchandra-sharad-mangrulkar-pradip-jawandhiya-nitin-goje) Show Path

Chapter

Design of Improved Quadruple-Mode Bandpass Filter Using Cavity Resonator for 5G Mid-Band Applications

By
P. Satheesh Kumar (/search?contributorName=P. Satheesh Kumar&contributorRole=author&redirectFromPDP=true&context=ubx) (https://orcid.org/0000-0002-9267-4381)
, P. Chitra (/search?contributorName=P. Chitra&contributorRole=author&redirectFromPDP=true&context=ubx) (https://orcid.org/0000-0002-5448-3058),
S. Sneha (/search?contributorName=S. Sneha&contributorRole=author&redirectFromPDP=true&context=ubx) (https://orcid.org/0000-0003-3321-1069)

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Edition	1st Edition
First Published	2021
Imprint	CRC Press
Pages	16
eBook ISBN	9781003175155

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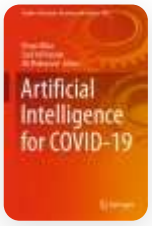
Diagnosing COVID-19 Virus in the Cardiovascular System Using ANN

| Chapter | First Online: 20 July 2021

| pp 63–75 | Cite this chapter



Artificial Intelligence for COVID-19

Palanisamy Satheesh Kumar, Jeevitha & Manikandan

Part of the book series: Studies in Systems, Decision and Control ((SSDC,volume 358))

Abstract

The novel corona virus disease (COVID-19) is a deadly SARS- COV-2 communicable virus causing the world economy to crash. COVID-19, which causes interstitial pneumonitis and severe acute respiratory distress syndrome (ARDS), primarily affects the lungs multiple organs, especially the cardiovascular system. The ability of this virus to spread through human-to - human and surface-to-human transmission contributes to a devastating

Chapter 7

Load Flow Analysis for Micro Grid

P. Sivaraman, Dr. C. Sharmeela, Dr. S. Elango

Book Editor(s):C. Sharmeela, P. Sivaraman, P. Sanjeevikumar, Jens Bo Holm-Nielsen

First published: 11 March 2021
https://doi.org/10.1002/9781119710905.ch7

Summary

Micro grid is defined as Distributed Energy Resources (DER) and interconnected loads with clearly defined electrical boundaries that act as a single controllable entity with respect to the grid as per IEEE std 2030.7-2017. Micro grid can connect and disconnect from the grid to enable the operation in both grid connected and islanding operations. That is micro grid can operate both in grid connected and islanded modes of operation. Whenever micro grid is in islanded mode, it will work as an autonomous system without distribution grid power supply. Whenever micro grid operates in grid connected mode, power flows bi-directionally between the distribution grid and micro grid at the Point of Interface (PoI) or Point of Common Coupling (PCC). So, it is essential to conduct the power system analysis during the planning/design stage of micro grid for different loading conditions for safe and reliable operation. This chapter discuss the load flow analysis for micro grid with example of 5 MW. Modeling and simulation of 5 MW micro grid is performed in ETAP software.

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Google Scholar

IEEE Std 2030.8-2018, *Testing for micro grid controllers provides the testing procedures for micro grid controller.*

Google Scholar

Chapter 11

Power Quality Improvement in Microgrid System Using PSO-Based UPQC Controller

T. Eswara Rao, Krishna Mohan Tatikonda, S. Elango, J. Charan Kumar

Book Editor(s):C. Sharmeela, P. Sivaraman, P. Sanjeevikumar, Jens Bo Holm-Nielsen

First published: 11 March 2021
https://doi.org/10.1002/9781119710905.ch11
Citations: 1

Summary

This chapter proposes a concept of new control techniques for unified power quality conditioner to improve the power quality in microgrid system. Here, wind energy system is considered for designing of microgrid system. In this chapter a SCIG based wind energy system is considered as one of the DG source. To get maximum reliability from wind energy system an MPPT based DC–DC converter is implemented. For improving power quality of the proposed microgrid system, this chapter is implemented with unified power quality conditioner. Suitable control techniques are designed for both series and shunt converters of UPQC. To achieve better power quality improvement under different load conditions a PSO optimization technique is implemented in this chapter. This proposed microgrid system with UPQC controller under different controllers are implemented and tested in MATLAB.

References

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Google Scholar

Wang, F., Duarte, J.L. and Hendrix, M.A.M., Pliant active and reactive power control for grid-interactive converters under unbalanced voltage dips, *IEEE Transactions on Power Electronics*, in press, 2010.

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Abstract

“A rotten apple spoils the whole bunch” deciphers the research problem domain. Taking a broader perspective, the existence of anomaly in a graphical community would degrade the global network performance. The anomaly is a hindrance to insight for a better data quality analytics. Though the majority of multidisciplinary contributions in machine learning

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S. Priya & N. K. Karthikeyan

Part of the book series: Advances in Intelligent Systems and Computing ((AISC,volume 1353))

Abstract

Cervical cancer is one of the predominant cancers that cause death in women globally. This disease progresses slowly and is a curable cancer, if detected well in advance. Various studies on different data mining models used for diagnosing this disease have been carried out.

Supervised Deep Learning Vector Quantization to Detect MemCached DDOS Malware Attack on Cloud

Original Research Published: 10 February 2021

Volume 2, article number 85, (2021) Cite this article

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E. Arul & A. Punidha

Abstract

Weak defence makes it vulnerable to multiple cloud devices, and victims often do not even know it has been compromised. Cloud assaults were planned, and the weakening of home automation and home safety technologies was addressed over a long period of time. The threats, however, were of a different kind. The target appears to be less interested in attackers, and everyone else is attempting to hack the system and connect it to the DDoS

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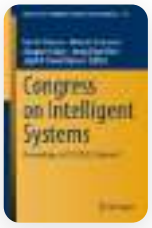

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(CIS 2020)

E. Arul & A. Punidha

Part of the book series: Advances in Intelligent Systems and Computing ((AISC,volume 1334))

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Abstract

Karger's Randomness of Graphs to Detect XSS Attacks on IoT Devices

| Conference paper | First Online: 19 June 2021

| pp 499–507 | Cite this conference paper

Computer Communication, Networking and IoT

E. Arul & A. Punidha

Part of the book series: Lecture Notes in Networks and Systems ((LNNS,volume 197))

Abstract

Cross-webpage scripting (otherwise called XSS) is a web security helplessness that enables an aggressor to bargain the associations that clients have with a defenseless application. It enables an assailant to go around a similar inception approach, which is intended to isolate various sites from one another. Cross-site scripting vulnerabilities typically enable an aggressor to take on the appearance of an injured individual client, to do any activities that

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Malicious Attack Identification Using Deep Non Linear Bag-of-Words (FAI-DLB)

Authors E. Arul, A. Punidha, K. Gunasekaran, P Radhakrishnan, VD Ashok Kumar

Pages 603 - 607
DOI 10.3233/APC210110
Category Research Article
Series Advances in Parallel Computing
Ebook Volume 38: Smart Intelligent Computing and Communication Technology

Abstract

Online media have flourished in modern years to connect with the world. Most of those stuff users share on blogs like facebook, twitter and many other are pessimistic or just middle spirited. Further, an increasingly professional anti - spyware technologies are dependent on Machine Learning(ML) technology to secure malicious consumers. Over the past few years, revolutionary learning approaches have yielded remarkable outcomes and have immediately generated photos, characters and text interpretations of dynamic weak points. The Purple consumer frequency makes the troll and attacker aim an enticing one. The users will learn the controversial topics and techniques used by malware from articles with ties to harmful material and bogus applications. It is essential to build and customize a lot of potential functionality in vulnerability and application developers around the world. To represent a public web firmware assault with deep logistic inference using Extreme Spontaneous Tree (FAI-DLB). A corresponding output device is named harmful or benign by training an FAI-DLB with different modulation clustered with such a normal or anomalous API. It was therefore equipped to locate a suspicious sequence in unidentified firmware of FAI Deep LB. The outcome demonstrates a good actual meaning of 96.25% and a low spyware assault of 0.03%.

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Chapter

Design of a Pentagon Slot-based Multi-band Linear Antenna Array for Energy-efficient Communication: Future Challenges and Applications in Green Technologies

By Kumar P. Satheesh (/search?contributorName=Kumar P. Satheesh&contributorRole=author&redirectFromPDP=true&context=ubx), T. Balakumaran (/search?contributorName=T. Balakumaran&contributorRole=author&redirectFromPDP=true&context=ubx)

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Edition	1st Edition
First Published	2021
Imprint	CRC Press
Pages	11
eBook ISBN	9781003176275

ABSTRACT

< Previous Chapter (chapters/edit/10.1201/9781003176275-20/implementation-use-green-computing-polish-companies-versus-implementation-features-characteristic-teal-organizations-agnieszka-rzepka-maria-kocot-el%C5%BCbieta-j%C4%99drych?context=ubx)

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by Dr. S. Gokul Kumar (Author) | Format: Kindle Edition

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Certain Strategic Study on Machine Learning-Based Graph Anomaly Detection

| Conference paper | First Online: 23 July 2021

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S. Saranya & M. Rajalakshmi

Part of the book series: Lecture Notes on Data Engineering and Communications Technologies ((LNDECT,volume 68))

Abstract

“A rotten apple spoils the whole bunch” deciphers the research problem domain. Taking a broader perspective, the existence of anomaly in a graphical community would degrade the global network performance. The anomaly is a hindrance to insight for a better data quality analytics. Though the majority of multidisciplinary contributions in machine learning

Mining Temporal Sequence Patterns Using Association Rule Mining Algorithms for Prediction of Human Activity from Surveillance Videos

| Conference paper | First Online: 24 July 2020

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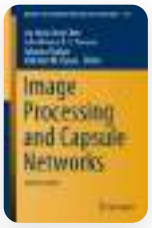

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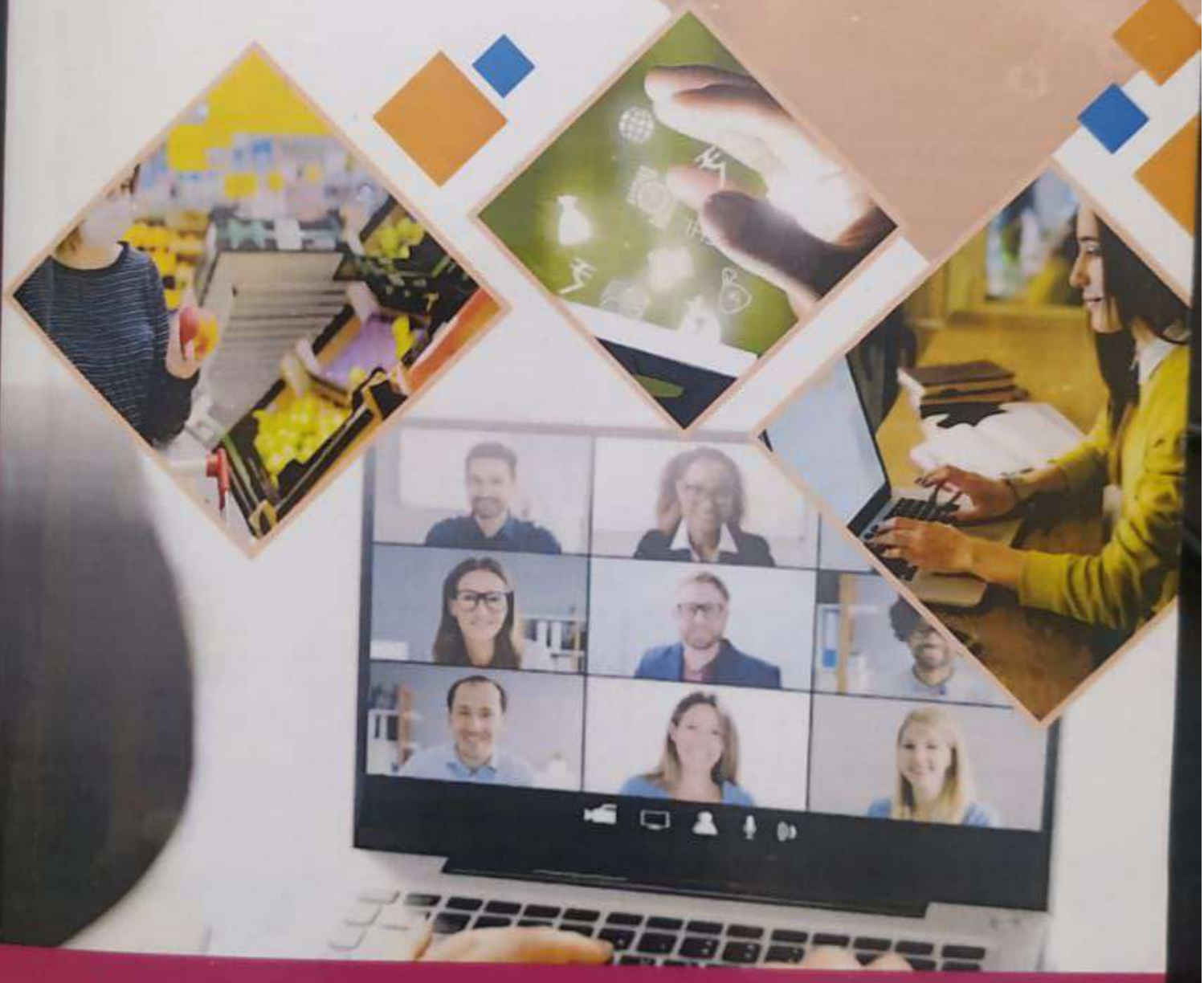
International Conference on Image Processing and Capsule Networks

Abstract

Going Contactless:

An Opportunity in Pandemic



•Dr. Nishith Nagar • Prof. Devendra Kumar Pandey

CHAPTER -4

An Exploratory Analysis of factors Causing the Non-Performing Assets Selected Public & Private Sector Banks in India and NPA Measures Bank customers' Perspective During the Pandemic

DR. S. GOKUL KUMAR
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Department of Computing,
Coimbatore Institute of Technology, Civil
Aerodrome Post, Coimbatore, Tamilnadu-641014
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ABSTRACT

The raise in Non-Performing Assets is considered as a huge threat for the entire banking industry all around the world. The level of NPAs increases on daily basis due to lot many factors both internal and external as well. This study aims at analyzing the various factors which contributes to the surge in NPAs namely customer-related, economy-related, business-related, bank-related factors and the ways of mitigating them in future. The period of study is 12 months during the pandemic (2020-2021). The research tools such as Percentage Analysis, Score Analysis, Factor Analysis, Structural Equation Modelling and GAP Analysis has been used to analyze the data. The results of Percentage Analysis stated that the majority of the customers

ISBN: 978-93-91387-03-7

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Chapter –XVI

16

AI DRIVEN CRM: THE FUTURE OF BUSINESS

Dr.R.Umarani, (umasusi@gmail.com) Associate Professor, Coimbatore Institute of Technology, Coimbatore.

Ms.D.Prabha, (dprabha99@gmail.com) Assistant Professor of Management, KG College of Arts and Science, Coimbatore.

Introduction

The term **artificial** can be dehumanizing and artificial but only '**artificial intelligence**' permits for a personalized experience with the customers. Artificial intelligence is all around us. Perhaps the concept is still new to some, but it already has a significant impact on your daily routine. When you make a call to Uber, Alexa, Amazon, or other voice assistants on your smartphone, such as Siri, Artificial Intelligence (AI) technology, is designed to make your life easier. Who hasn't looked on Netflix for movie recommendations? AI Algorithms have undoubtedly influenced your decision on what to do.

The sales staff has never been more data-rich than it is now, thanks to AI-driven CRM. AI has revolutionised the customer experience, and everything has been simplified. Because AI is integrated with CRM, the benefits are numerous, as shown below.

ISBN: 978-93-91387-03-7

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INNOVATION IN HR BRANDING STRATEGIES

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ABSTRACT

Employer branding is what job seekers see when they apply to any company. It is the company's image in the public. HR branding needs constant upgradation in this digital era and companies are trying to adapt the best branding strategies to show them aswell reputed. Apart from the brand image, there are lot of strong points to why companies adapt the branding strategy. The importance of HR branding, why and which businesses utilize it aggressively, and the top companies branding approach are discussedin this paper.

INTRODUCTION

According to Builtin.com, "Employer branding is the process of managing and influencing your reputation as an employer among job seekers, employees and key stakeholders. It encompasses everything you do to position your organization as an employer of choice."

Companies invest a lot to attract, engage and retain talents to their companies. During this COVID-19, this act has increased as employees have wide options to switch from one company to the other. A company's branding starts from its internal organizational culture. Only then external factor like HR department interacting with the public comes in hand. By understanding this, companies adapt strategies in branding which are relevant to their work culture.

Thus, implementing right and innovative strategies is crucial. Even, for the existing employees in a company needs effective ways to make them retain. Satisfying the exiting talent employees are essential as well.

Topology and Build Path Optimization for Reducing Cost in FDM uPrint SE

| Conference paper | First Online: 17 October 2019

| pp 189–198 | Cite this conference paper

Advances in Additive Manufacturing and Joining

T. Ravi & Rajesh Ranganathan

Part of the book series: Lecture Notes on Multidisciplinary Industrial Engineering ((LNMUINEN))

Abstract

The idea of generating a physical model straightly from the CAD data is largely documented as additive manufacturing (AM) or rapid prototyping (RP). This invention has facilitated in leftover minimization, reduced time to market, and flexibility for new product development as well as fast prototyping. Even after having all these benefits, the economic factors play a

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HCCD: Haar-Based Cascade Classifier for Crack Detection on a Propeller Blade

| Conference paper | First Online: 02 November 2019

| pp 421–432 | Cite this conference paper

First International Conference on Sustainable Technologies for Computational Intelligence

R. Saveeth & S. Uma Maheswari

Part of the book series: Advances in Intelligent Systems and Computing ((AISC,volume 1045))

Abstract

Crack detection in aircraft components is an important assessment because even a small unnoticed crack tends to critical crack length. Aviation demands reliability, and therefore, periodical inspection of cracks in aircraft parts like engine turbine blade, aircraft skin,

Internet of Things (https://www.taylorfrancis.com/books/mono/10.1201/9781003032441/internet-things?refId=535f7384-a932-417c-b8ed-1e73f68c99ed&context=ubx)

Show Path

Chapter

IoT-Based Energy Management System

Design and Implementation and Its Security Challenges

By M. Poongothai (/search?contributorName=M. Poongothai&contributorRole=author&redirectFromPDP=true&context=ubx), N. Mahadevan (/search?contributorName=N. Mahadevan&contributorRole=author&redirectFromPDP=true&context=ubx)

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Edition	1st Edition
First Published	2020
Imprint	CRC Press
Pages	14
eBook ISBN	9781003032441

ABSTRACT

< Previous Chapter (chapters/edit/10.1201/9781003032441-11/improved-privacy-preservation-framework-cloud-based-internet-things-yuvaraj-arshath-raja-karthikeyan-kousik?context=ubx) Next Chapter > (chapters/edit/10.1201/9781003032441-13/mqtt-suresh-kumar-palanivel-rajan-yogesh-iggalore?context=ubx)

Emerging Trends in Engineering Research and Technology Vol. 8

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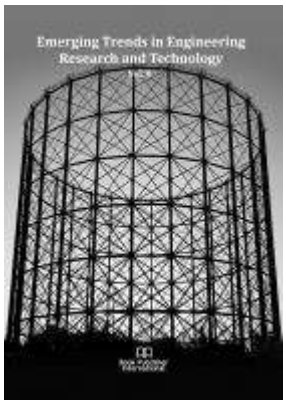
Synopsis

This book covers key areas of engineering and technology and other related fields. The contributions by the authors include energy harvesting, electrostatics, capacitance generators, high power, butterfly unit, low-power, split-radix FFT, shared-memory, common mode voltage, power-line interference, balancing technique, CMRR, geometric design, stress design, thermal design, fabrication and insulation testing rig, optimum valve timing, inlet valve open, engine manufacturing, combustion engine, methanol, perovskite, thin film, pulsed laser deposition, fuel cell, lanthanide, rare earth, lithium-ion, solid electrolyte, perovskyte, batteries, microbatteries, rare earth oxide, REO, lanthanide, graphene nanoribbon, electronic structure, enhanced oil recovery, simulator design, multidimensional, multicomponent and multiphase system, surfactant assisted flooding, orthogonal collocation, finite difference, coherence theory, hypothetical reservoir, fault diagnosis, nearest neighbour, analog circuits, form of subunits, absorption mat, elderly's fall, simulation, attenuation of force, bioaccumulation, particulate matter, spatial effect, temporal effect, bio-indicator etc. This book contains various materials suitable for students, researchers and academicians in the field of engineering and technology.



Media Promotion: Chapter 01

Media Promotion: Chapter 02

Media Promotion: Chapter 03

Media Promotion: Chapter 04

Media Promotion: Chapter 05

Media Promotion: Chapter 06

Media Promotion: Chapter 07

Media Promotion: Chapter 08

Media Promotion: Chapter 09

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Media Promotion: Chapter 11

Media Promotion: Chapter 12

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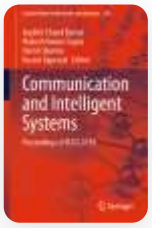


Communication and Intelligent Systems

(ICCIS 2019)

Riya Chordia, Ronak Gupta, M. Ramya & A. Rajeswari

Part of the book series: Lecture Notes in Networks and Systems ((LNNS,volume 120))

Included in the following conference series:
International Conference on Communication and Intelligent Systems

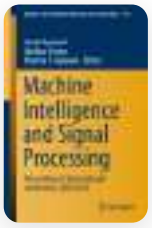
Abstract

The significance of digital communication has been well accepted all over the world. It has been widely used in wireless networks like satellite communication, and 4G and 5G

Speech Emotion Recognition for Tamil Language Speakers

| Conference paper | First Online: 26 February 2020

| pp 125–136 | Cite this conference paper



Machine Intelligence and Signal Processing

(MISP 2019)

V. Sowmya & A. Rajeswari

Part of the book series: Advances in Intelligent Systems and Computing ((AISC,volume 1085))

Included in the following conference series:
International Conference on Machine Intelligence and Signal Processing

Abstract

IOT Based Smart and Secure Surveillance System Using Video Summarization

| Conference paper | First Online: 21 April 2021

| pp 423–435 | Cite this conference paper

Advances in Computing and Network Communications

M. Surya Priya, D. Diana Josephine & P. Abinaya

Part of the book series: Lecture Notes in Electrical Engineering ((LNEE,volume 735))

Abstract

Nowadays, security is important for every commercial property to prevent robberies and thefts and to ensure secure safe business operations. In CCTV (Closed-circuit television) systems, the data is non-intelligently recorded which produces huge volumes. It makes it difficult to search for the desired content from the big data. It is found from the literature that limited work is done in the field of a secure surveillance system using real-time videos.

Augmented Reality Based Smart Ambulance System

| Conference paper | First Online: 03 March 2020

| pp 635–641 | Cite this conference paper

Intelligent Techniques and Applications in Science and Technology

(ICIMSAT 2019)

A. Kavithamani, R. Vijay, S. Monika, E. Sentamilan & S. Ramya

Part of the book series: Learning and Analytics in Intelligent Systems ((LAIS,volume 12))

Included in the following conference series:
International Conference on Innovation in Modern Science and Technology

Abstract

Effect of Particle Size on Surface Characteristics of Soil

| Conference paper | First Online: 19 September 2020

| pp 21–36 | Cite this conference paper

Geotechnical Characterization and Modelling

N. Saranya & D. N. Arnepalli

Part of the book series: Lecture Notes in Civil Engineering ((LNCE,volume 85))

Abstract

The clay mineral-based soils having low permeability and high swell–shrinkage characteristics are preferred as a backfill and buffer material for containing hazardous waste. Though many factors influence the behaviour of these soils, the contribution of various particle sizes present in them is not thoroughly investigated. In order to examine the effect of particle size on electrokinetic, mineralogical and surface properties of soils, the selected

Firmware Injection Detection on IoT Devices Using Deep Random Forest

| Conference paper | First Online: 22 October 2020

| pp 537–544 | Cite this conference paper

Information and Communication Technology for Intelligent Systems

(ICTIS 2020)

E. Arul ✉, A. Punidha, V. D. Ambeth Kumar & E. Yuvarani

Part of the book series: Smart Innovation, Systems and Technologies ((SIST,volume 195))

Included in the following conference series: International Conference on Information and Communication Technology for Intelligent Systems

Abstract

DOI: 10.1109/ICSSIT48917.2020.9214115 • Corpus ID: 222223496

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Firmware Attack Detection on Gadgets Using Kohonen's Self Organizing Feature Maps (KSOFM)

Dr. E. Arul, A. Punidha • Published in Third International... 1 August 2020 •
Computer Science, Engineering •
2020 Third International Conference on Smart Systems and Inventive Technology (ICSSIT)

TLDR The proposed Firmware Kohonen's Self Organizing Feature Maps (KSOFM) helps to describe such a firmware assault on gadgets with the firmware KSOM and information from a non-regular source space to approximate the intrinsic dissemination. Expand

Figures and Tables from this paper

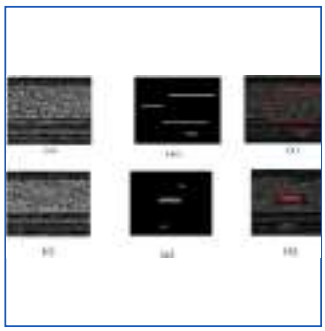

Figure 1

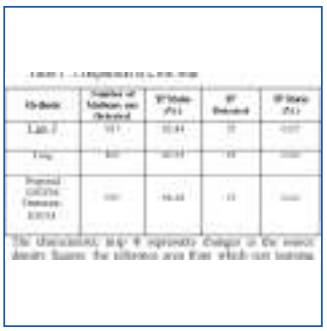

Table 1

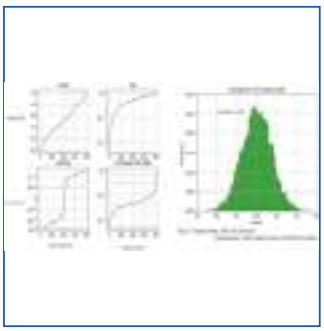

Figure 3

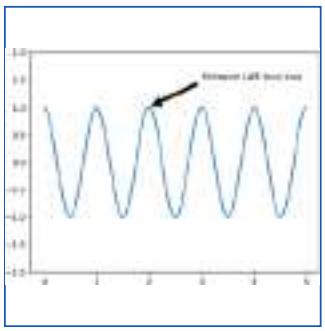

Figure 4

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Malicious SPAM Injection Attack Detection on Social Webpage Posts

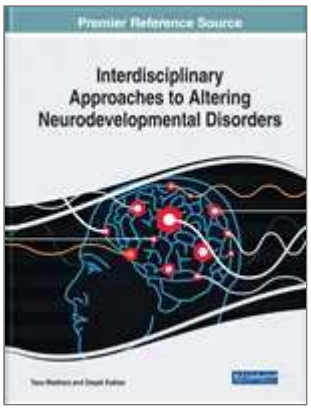
Authors Arul E, Punidha A

Pages 474 - 478
DOI 10.3233/APC200187
Category Research Article
Series Advances in Parallel Computing
Ebook Volume 37: Intelligent Systems and Computer Technology

Abstract

The social media platforms for teens and genz are highly influential; 39% state that they will use' buy buttons' and 25% use smartphones for shopping images. In the meantime, 28 percent of US internet users between 18 and 55 years of age said their aim is to buy via social media during holidays. As these channels become more central to our everyday lives, social media platforms have now become a key vector of attack that businesses cannot neglect anymore. Social media Platforms provide up to 20% more options for delivering malware for consumers, such as advertising, social engineering, equities and plug-ins compare to eCommerce and corporate websites. The suggested version Supervised SD-LVQ used to detect malicious firmware on various social media sites. LVQ classifies the different service calls attacks associated with XML, HTML, JavaScript files and different forms of malicious attacks on social networks. The test results show that 98.70% is genuinely positive and 0.02% is falsely negative.

Download



Activity Recognition System Through Deep Learning Analysis as an Early Biomarker of ASD Characteristics ⊗

Abirami S. P., Kousalya G., Balakrishnan P.

Source Title: Interdisciplinary Approaches to Altering Neurodevelopmental Disorders (/gateway/book/240093)

Pages: 22
ISBN13: 9781799830696ISBN10: 1799830691EISBN13: 9781799830702
DOI: 10.4018/978-1-7998-3069-6.ch014

Abstract

Autism spectrum disorder (ASD) is a very high-flying area of research in the current era owing to its limited and on-going exploration. This chapter aims to bridge the gap of such late realization of autistic feature through machine intervention commonly known as computer vision. In this chapter, basic summarization of important characteristic features of autism and how those features could be measured and altered before a human could recognize are proposed. The chapter proposes a model for activity identification of the autistic child through video recordings. The approach is modelled in a way that consists of two phases: 1) Optical flow method detects the unusual frames based on motion pattern. 2) Each of these detected frames are fed to convolution neural network, which is trained to extract features and exactly classify if the particular frame under consideration belongs to usual or unusual class. This examines the various activities, time delay, and factors influencing the motion of the autistic child under constrained scenarios proving maximum accuracy and performance.

A Meta-Heuristic Model Based Computational Intelligence in Exploration and Classification of Autism in Children

| Conference paper | First Online: 06 May 2020

| pp 61–77 | Cite this conference paper

Intelligent Systems, Technologies and Applications

S. P. Abirami ✉, G. Kousalya & P. Balakrishnan

Part of the book series: Advances in Intelligent Systems and Computing ((AISC,volume 1148))

Abstract

Autism spectrum disorder (ASD) is one of the most notable neurodevelopmental disorders that gained major notification among parents, clinicians and even in researchers in the current era. The early identification of autism is a much needed support for parents and

Emerging Trends in Engineering Research and Technology Vol. 1

(https://stm1.bookpi.org/index.php/etert-v1/index)

(https://stm1.bookpi.org/index.php/etert-v1/issue/view/87)

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Hybrid Neural Network for Human Activity Recognition

K. N. Apinaya Prethi ; M. Sangeetha ; S. Nithya

Emerging Trends in Engineering Research and Technology Vol. 1, Page 133-140

Published: 2 March 2020

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Artificial Intelligence Trends for Data Analytics Using Machine Learning and Deep Learning Approaches (https://www.taylorfrancis.com/books/mono/10.1201/9780367854737/artificial-intelligence-trends-data-analytics-using-machine-learning-deep-learning-approaches?refId=400b8024-8d4e-4096-a58a-bf22859a219d&context=ubx)

Show Path

Chapter

Proficient Prediction of Acute Lymphoblastic Leukemia Using Machine Learning Algorithm

By M. Sangeetha (/search?contributorName=M. Sangeetha&contributorRole=author&redirectFromPDP=true&context=ubx), K.N. Apinaya Prethi (/search?contributorName=K.N. Apinaya Prethi&contributorRole=author&redirectFromPDP=true&context=ubx), S. Nithya (/search?contributorName=S. Nithya&contributorRole=author&redirectFromPDP=true&context=ubx)

Book Artificial Intelligence Trends for Data Analytics Using Machine Learning and Deep Learning Approaches (https://www.taylorfrancis.com/books/mono/10.1201/9780367854737/artificial-intelligence-trends-data-analytics-using-machine-learning-deep-learning-approaches?refId=400b8024-8d4e-4096-a58a-bf22859a219d&context=ubx)

Edition	1st Edition
First Published	2020
Imprint	CRC Press
Pages	18
eBook ISBN	9780367854737

ABSTRACT

< Previous Chapter (chapters/edit/10.1201/9780367854737-8/impact-technology-human-resource-information-system-achieving-business-intelligence-organizations-sharanika-dhal-manas-kumar-pal-archana-choudhary-mamata-rath?context=ubx)
Next Chapter > (chapters/edit/10.1201/9780367854737-10/role-machine-learning-social-area-networks-rajeswari-arumugam-premalatha-balasubramaniam-cynthia-joseph?context=ubx)

Biodiesel—A Review on Recent Advancements in Production

| Chapter | First Online: 28 March 2020

| pp 117–129 | Cite this chapter

Bioresource Utilization and Bioprocess

N. Dhivya Priya & M. Thirumarimurugan

Abstract

Biofuel, fuel produced from lipids extracted from animal or vegetable sources, has been accepted widely as an efficient and ecofriendly alternative for conventional fossil diesel. Technically, biodiesel may be defined as product of alcoholysis of long chain fatty acids in the presence of a catalyst. The use of vegetable oils in compression engines is a longstanding idea dating back to a century, when, people used it only in cases of emergency, due to the economic infeasibility. There are four primary methods of using vegetable oils in engines, namely, blend or direct usage, micro emulsification of vegetable oil, thermal cracking of

ScienceDirect

Current Developments in Biotechnology and Bioengineering

Resource Recovery from Wastes

2020, Pages 233-249

Chapter 12 - Food waste valorization for biopolymer production

G. Sharmila [1], C. Muthukumaran [1], N. Manoj Kumar [2], V.M. Sivakumar [3], M. Thirumarimurugan [3]

https://doi.org/10.1016/B978-0-444-64321-6.00012-4 ↗

Abstract

Food wastage has become a growing crisis and contributes to the threatening food demand globally. According to the Food and Agriculture Organization (FAO) of the United Nations reported in the year 2013, one-third of the food produced around the world turned into waste, approximately around 1.6billion tons annually. The improper production, preparation, and consumption of food are the main causes of food waste and because of that there is a rise in pollution problem in the environment and additionally a tremendous loss of vital nutrients and biomass. As food wastage is an alarming problem all over the world, there is increasing attention from environmental conservationists to turn food waste into useful renewable and recyclable products such as biofuels, biopolymers, and other energy sources. The majority of the food waste source comprises vegetable and fruits, as they are perishable and more prone to putrefaction and contamination. Hence, carbohydrates, sugars, hemicelluloses, lignin, and cellulose are the major components available abundantly in food waste. Cellulose, starch, hemicelluloses, and lignin possess a strong fibrous structure and are more applicable in the biosynthesis of biopolymers. Biopolymers are the polymers that are synthesized from biological substances modified by living organisms. As biopolymers are biodegradable and recyclable, they possess tremendous application in the field of biomedical, surgical sutures and materials, food packing, medicine and pharmaceutical preparations. This chapter explains the

Comparative and Kinetics Studies of Organo-Nano-Kaolin Clay And Organo-Nano-Bentonite Clay as the Adsorbents for the Reduction of Chromium (VI) from Tannery Effluent

| Conference paper | First Online: 20 September 2019

| pp 31–42 | Cite this conference paper

Global Challenges in Energy and Environment

B. Uma Maheswari, V. M. Sivakumar & M. Thirumarimurugan

Part of the book series: Lecture Notes on Multidisciplinary Industrial Engineering ((LNMUINEN))

Abstract

PT-GA-IRIAL: Enhanced Energy Efficient Approach to Select Migration VMs for Load Balancing in Cloud Computing Environment

| Conference paper | First Online: 22 January 2020

| pp 589–596 | Cite this conference paper

Second International Conference on Computer Networks and Communication Technologies

(ICCNCT 2019)

V. Radhamani & G. Dalin

Part of the book series: Lecture Notes on Data Engineering and Communications Technologies ((LNDECT,volume 44))

Included in the following conference series: International Conference on Computer Networks and Inventive Communication Technologies

Conference Paper

EFFECT OF PARTICLE SIZE ON SURFACE CHARACTERISTICS OF SOIL

December 2018

Conference: Indian Geotechnical Conference 2018 · At: IISc Bangalore

Authors:

Saranya Nithiyanandan
Indian Institute of Technology Madras

Dali Naidu Arnepalli
Indian Institute of Technology Madras

Abstract

The clay mineral based soils having low permeability and high swell-shrinkage characteristics are preferred as a backfill and buffer material for containing hazardous waste. Though many factors influence the behaviour of these soils, the contribution of various particle sizes present in them is not thoroughly investigated. In order to examine the effect of particle size on electrokinetic, mineralogical and surface properties of soils, the selected soils were sieved through different size of sieves such as 75 µm, 63 µm, 54 µm, 45 µm, 36 µm, 25 µm and 20 µm, and the fractions retained on them was collected. The collected fractions were processed and characterized for their electrokinetic, mineralogical and surface properties. Based on the experimental results, the role of different particle size on the micro- and macro-level behaviour of selected soils was quantified.

Smart Digital Bus Ticketing System

| Conference paper | First Online: 05 March 2021

| pp 853–858 | Cite this conference paper

Advances in Automation, Signal Processing, Instrumentation, and Control

(i-CASIC 2020)

K. Harini, A. Saithri & M. Shruthi

Part of the book series: Lecture Notes in Electrical Engineering ((LNEE,volume 700))

Included in the following conference series:
International Conference on Automation, Signal Processing, Instrumentation and Control

Abstract

Green Computing and Predictive Analytics for Healthcare (https://www.taylorfrancis.com/books/edit/10.1201/9780429317224/green-computing-predictive-analytics-healthcare-sourav-banerjee-chinmay-chakraborty-kousik-dasgupta)

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Chapter

Big Data Analytics and K-Means Clustering

By R. Sandhiya (/search?contributorName=R. Sandhiya&contributorRole=author&redirectFromPDP=true&context=ubx)

Book Green Computing and Predictive Analytics for Healthcare (https://www.taylorfrancis.com/books/edit/10.1201/9780429317224/green-computing-predictive-analytics-healthcare-sourav-banerjee-chinmay-chakraborty-kousik-dasgupta)

Edition	1st Edition
First Published	2020
Imprint	Chapman and Hall/CRC
Pages	24
eBook ISBN	9780429317224

ABSTRACT

Previous Chapter (chapters/edit/10.1201/9780429317224-2/framework-emergency-remote-care-monitoring-using-internet-things-varsha-poddar?context=ubx)
Next Chapter (chapters/edit/10.1201/9780429317224-4/machine-learning-based-rapid-prediction-sudden-cardiac-death-scd-using-precise-statistical-features-heart-rate-variability-single-lead-ecg-signal-prakash-banerjee?context=ubx)

Firmware Attack Detection on Gadgets Using Ridge Regression (FAD-RR)

| Conference paper | First Online: 05 March 2021

| pp 224–233 | Cite this conference paper

Soft Computing and its Engineering Applications

(icSoftComp 2020)

E. Arul & A. Punidha

Part of the book series: Communications in Computer and Information Science ((CCIS,volume 1374))

Included in the following conference series: International Conference on Soft Computing and its Engineering Applications

Abstract

Firmware Attack Detection on IoT Devices Using Deep Binary Pattern Classification Mining (FA-PCM)

| Conference paper | First Online: 16 December 2020

| pp 379–387 | Cite this conference paper

ICT Analysis and Applications

E. Arul & A. Punidha

Part of the book series: Lecture Notes in Networks and Systems ((LNNS,volume 154))

Abstract

Because IoT devices began to invade our everyday lives, businesses would eventually have to tackle thousands of IoT gadgets, if not a large amount of them. There is a shortage of protection functionality where the device customers are limited or are unwilling to change

SKILL BASED APPROACH IN TEACHING LANGUAGE AND LITERATURE

Dr. P. Santhi[1], A. Santha Devi[2]

[1]Head and Associate Professor of English, Department of Humanities, Coimbatore Institute of Technology, Coimbatore. India.

[2]Assistant Professor of English, Department of Humanities,

Coimbatore Institute of Technology, Coimbatore. India.

Introduction

Literature is the mirror that reflects society and time. According to Mathew Arnold "Literature is a criticism of life" but this can mean only that it is an interpretation of life as life shapes itself in the mind of the interpreter. Language teaching is a process and its intention varies not only from nation to nation and culture to culture but from person to person. Situation is taken and the scholars are alleged to read books which they hardly understand. Then they discuss structure, the writer's style, etc. In this chapter," " the teacher focuses using some tools or techniques to teach Language through Literature and its beneficial factors. The first technique is based on using poetry to develop vocabulary. The second technique focuses on evolving creativeness in language use, transfiguring a prose text into a play. The third technique teaches the students to use language resources for viewing ideas together in an interesting logical sequence through quizzes. It also trains them in thinking logically and connecting ideas through Role Play or Drama. From the fourth technique onwards, it helps the students to learn grammatical clause of words. And likewise many Techniques are discussed in detail. Thus various aspects of learning are enhanced through Literature.

Technique 1

Using Poetry to develop Artistic or Stylistic forms

Split the students or participants into four or more groups and provide them a variety of short verses to read. Ask respectively to identify at least one expression (a word or a group of words) in the verses that they think is used in an interesting or unusual manner. Let them come up with their own justification of why they think the expression(s) is (are) exceptional.

978-93-89515-31-2

A STUDY ON THE ATTITUDE OF STUDENTS IN ACCEPTING DOGME REACTIVE TEACHING TECHNIQUE

Dr. V. Arthy[1], Dr. P. Santhi[2]

[1]Assistant Professor of English, Humanities Department, Coimbatore Institute of Technology, Coimbatore. India.

[2]Head and Associate Professor of English, Humanities Department, Coimbatore Institute of Technology, Coimbatore. India.

Introduction

Communication, the transfer of thoughts between people through an accepted code, has been a concern to researchers since ancient times. Until last decade it was considered as a natural process imbibed in human beings. I. A Richards defined communication as "a discrete aspect of human enterprise." Communication is a process that takes palce when a person's mind act on a situation that another person's mind in influenced and is caused in that part by that experience.

In Engineering colleges, the use of language begins and ends with the language class as the other subjects are explained through vernacular medium. So, the students might not receive good exposure to the use of English Language as they spend less time in contact with it. Another reason is that students think in their mother tongue and speak in L2. Also, the students are not able to experience the language as they are surrounded by their vernacular language all the time. The experience of Second language is mostly confined to classroom teaching in formal context. Most of the informal interactions even inside the classroom happening between the teacher and students is through Vernacular medium. Language is taught in formal and unnatural context that hampers the oral competence of the students. On the other hand, sociocultural theorists believe that language should be taught in natural context and it is an interpersonal process that is situated in the social and cultural context.

Language is perceived to be product of learning than a medium of communication. In the past decades, grammar translation method was used to impact languages placing emphasis on the importance of mastering grammar to learn the language. Later sociolinguistic theories emerged that focused on how to use the language in social context. The theory stressed that appropriateness and grammar are equally important. Then came the communicative language

978-93-89515-31-2

Smart Digital Bus Ticketing System

| Conference paper | First Online: 05 March 2021

| pp 853–858 | Cite this conference paper

Advances in Automation, Signal Processing, Instrumentation, and Control

(i-CASIC 2020)

K. Harini, A. Saithri & M. Shruthi

Part of the book series: Lecture Notes in Electrical Engineering ((LNEE,volume 700))

Included in the following conference series:
International Conference on Automation, Signal Processing, Instrumentation and Control

Abstract

Design and Development of Orthosis for Clubfoot Deformity

| Chapter | First Online: 05 June 2018

| pp 127–139 | Cite this chapter

3D Printing and Additive Manufacturing Technologies

Chandrasekeran Vivek & Rajesh Ranganathan

Abstract

This paper deals in identifying a complex geometry problem related to health care sector. Paper focuses on identifying a problem in health care which is identified in the area of deformities. Non-surgical treatment for congenital talipes equino varus (clubfoot) deformity known as Ponseti method involves many complications thereby leading to the recurrence of the deformity. In this regard, design and development of customized orthosis that can be used as an alternate solution for Ponseti method for treating clubfoot deformity through AM technology is carried out in this work.

Design and Development of Drug Delivery System for Chronic Wound Using Additive Manufacturing

| Chapter | First Online: 05 June 2018

| pp 119–126 | Cite this chapter

3D Printing and Additive Manufacturing Technologies

Mohan Pushparaj, Rajesh Ranganathan & Sivakumar Ganesan

Abstract

The paper focuses on applying additive manufacturing in a healthcare sector. In healthcare wound healing remains a challenging clinical problem, for chronic wounds rather than in acute wound. It shows that chronic wound would take much time to heal. In general wound dressing product available in market for chronic wounds have irregular pores. The model of the wound dressing is categorized depending upon the type of wound; size of the wound. The product will be customized for person to person. Through additive manufacturing

41. Active Teaching- Learning Practice

Muralidharan. K, Harini. K

Assistant Professor, Department of ECE, Coimbatore Institute of Technology, Coimbatore-641014

*muralidharan@cit.edu.in

1. Creativity in teaching method

Tools to stimulate creative thinking leading to innovations like playful games or forms of visual exercises that will excite young minds and capture their interest. It is a time-tested aspect in order to identify and encourage each and every young student's creative abilities, contributions and freedom to explore. Bring aspects of creativity into all difficult subjects like Physics/Maths/Chemistry/ History through graphical representation of complex equations with the help of smart-boards will provide ways to develop their creative ideas and better understanding.

2. Use of Audio & Video Tools

Incorporate audio-visual materials to supplement textbooks during your sessions help to improve imagination thrive and better understanding. These can be models, filmstrips, movies, pictures, infographics or other mind mapping and brain mapping tools. These not only develop their ability to listen but will also help students to understand the concepts in an efficient

Machine Learning - Design (https://www.taylorfrancis.com/search?subject=SCCM1535&context=ubx)

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Book

Artificial Intelligence Trends for Data Analytics Using Machine Learning and Deep Learning Approaches

Edited By K. Gayathri Devi (/search?contributorName=K. Gayathri Devi&contributorRole=editor&redirectFromPDP=true&context=ubx), Mamata Rath (/search?contributorName=Mamata Rath&contributorRole=editor&redirectFromPDP=true&context=ubx), Nguyen Thi Dieu Linh (/search?contributorName=Nguyen Thi Dieu Linh&contributorRole=editor&redirectFromPDP=true&context=ubx)

Edition	1st Edition
First Published	2020
eBook Published	8 October 2020
Pub. Location	Boca Raton
Imprint	CRC Press
DOI	https://doi.org/10.1201/9780367854737 (https://doi.org/10.1201/9780367854737)
Pages	266
eBook ISBN	9780367854737
Subjects	Computer Science, Engineering & Technology

ABSTRACT

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| Conference paper | First Online: 10 April 2020

| pp 309–321 | Cite this conference paper

Communication and Intelligent Systems

(ICCIS 2019)

Riya Chordia, Ronak Gupta, M. Ramya & A. Rajeswari

Part of the book series: Lecture Notes in Networks and Systems ((LNNS,volume 120))

Included in the following conference series:
International Conference on Communication and Intelligent Systems

Abstract

The significance of digital communication has been well accepted all over the world. It has been widely used in wireless networks like satellite communication, and 4G and 5G

Remote Network Injection Attack Using X-Cross API Calls

| Conference paper | First Online: 07 November 2019

| pp 1399–1404 | Cite this conference paper

Emerging Trends in Computing and Expert Technology

(COMET 2019)

M. Prabhavathy & S. Uma Maheswari

Part of the book series: Lecture Notes on Data Engineering and Communications Technologies ((LNDECT,volume 35))

Included in the following conference series: International Conference on Emerging Current Trends in Computing and Expert Technology

Abstract

Novel Approach for Power Analysis in Microcontrollers

| Chapter | First Online: 05 March 2020

| pp 525–531 | Cite this chapter

International Conference on Communication, Computing and Electronics Systems

P. Muthu Subramanian & A. Rajeswari

Part of the book series: Lecture Notes in Electrical Engineering ((LNEE,volume 637))

Abstract

Security showcases a major breakthrough in the history of the embedded systems, as the connections move beyond computing devices, from intelligent traffic management systems to missile control system. The drift of Internet protocol from version 4 to version 6 has greatly expanded the number of devices that could be connected over the Internet and it is

Effect of Pore Size Distribution on Unconfined Compressive Shear Strength

| Conference paper | First Online: 14 July 2018

| pp 75–82 | Cite this conference paper

Geotechnical Characterisation and Geoenvironmental Engineering

N. Saranya & D. N. Arnepalli

Part of the book series: Lecture Notes in Civil Engineering ((LNCE,volume 16))

Abstract

The unconfined compressive strength is one of the influencing parameters that are used for determining the in situ strength of soft, fine-grained soil deposits. Since many previous research works have highlighted the influence of pore fluid type, electrolyte concentration, pH and valence of the pore fluid on unconfined compressive shear strength. The present study has inferred the effect of pore size distribution (PSD) on unconfined compressive

Seismic Behaviour of Three Bay Four Storey In-Filled RC Frames

Paperback – 3 January 2019

by Sathiaseelan Paramasivam (Author), & 2 more

Print length	Language
196 pages	English

Product description

From the Back Cover

The scope of this study is to quantify the seismic behaviours in terms of load-deflection, ductility, stiffness degradation, and energy dissipation capacity of ¿ size three bay four storey RC in-filled frames with monolithic RC strips in the central bay. Further to retrofit, the partially damaged frame is strengthened with Ferro-cement followed by cement mortar grouting and the behaviour of both Control Frame (CF) and Retrofitted Frame (RF) is studied. The behaviour of in-filled RC frame mainly depends on the monolithic action of the whole system during ground motion. Here, the monolithic RC strip and infill acted as shear-wall in resisting the lateral load. The experimental results of the CF and RF are compared with the analytical results obtained by ANSYS software.

About the Author

P.Sathiaseelan M.E (Struct) Ph.D is Professor and Head of Civil Engineering Department in PPG Institute of Technology Coimbatore since 2013. Formerly worked as Executive Engineer in JICA assisted Hogenakkal Water Supply Scheme. He has wide experience in the Design & Construction of water retaining structures & thorough in FIDIC Contract Conditions.

Product details

Publisher : LAP LAMBERT Academic Publishing (3 January 2019)

Language : English

Paperback : 196 pages

ISBN-10 : 6139992354

ISBN-13 : 978-6139992355

Dimensions : 15 x 1.2 x 22 cm

Fingerprint-Based Support Vector Machine for Indoor Positioning System

| Conference paper | First Online: 12 July 2018

| pp 289–298 | Cite this conference paper

Smart Innovations in Communication and Computational Sciences

A. Christy Jeba Malar & Govardhan Kousalya

Part of the book series: Advances in Intelligent Systems and Computing ((AISC,volume 670))

Abstract

The position of a movable object is required in an indoor environment for providing various business interest services and for emergency services. The techniques implemented on WLAN (802.11b Wireless LANs) endow with more ubiquitous (Feng et al. in IEEE Trans Mob Comput 12(12), 2012, [1]) within the environment and the requirement for additional

Blockchain-Based Decentralized and Secure Lightweight E-Health System for Electronic Health Records

| Conference paper | First Online: 06 May 2020

| pp 273–289 | Cite this conference paper

Intelligent Systems, Technologies and Applications

B Arunkumar & G Kousalya

Part of the book series: Advances in Intelligent Systems and Computing ((AISC,volume 1148))

Abstract

Electronic health record (EHR) is a digital format of patient health information which typically contains patient contact information, vital signs, medical history, current and past medication that are outsourced to cloud. But the data leakage in cloud-based EHR causes

HCCD: Haar-Based Cascade Classifier for Crack Detection on a Propeller Blade

| Conference paper | First Online: 02 November 2019

| pp 421–432 | Cite this conference paper

First International Conference on Sustainable Technologies for Computational Intelligence

R. Saveeth & S. Uma Maheswari

Part of the book series: Advances in Intelligent Systems and Computing ((AISC,volume 1045))

Abstract

Crack detection in aircraft components is an important assessment because even a small unnoticed crack tends to critical crack length. Aviation demands reliability, and therefore, periodical inspection of cracks in aircraft parts like engine turbine blade, aircraft skin,

Blockchain-Based Decentralized and Secure Lightweight E-Health System for Electronic Health Records

| Conference paper | First Online: 06 May 2020

| pp 273–289 | Cite this conference paper

Intelligent Systems, Technologies and Applications

B Arunkumar & G Kousalya

Part of the book series: Advances in Intelligent Systems and Computing ((AISC,volume 1148))

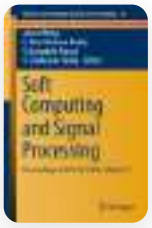
Abstract

Electronic health record (EHR) is a digital format of patient health information which typically contains patient contact information, vital signs, medical history, current and past medication that are outsourced to cloud. But the data leakage in cloud-based EHR causes

Deep Convolutional Neural Network-Based Diabetic Retinopathy Detection in Digital Fundus Images

| Conference paper | First Online: 17 January 2019

| pp 201–209 | Cite this conference paper



Soft Computing and Signal Processing

S. Saranya Rubini, R. Saai Nithil, A. Kunthavai & Ashish Sharma

Part of the book series: Advances in Intelligent Systems and Computing ((AISC,volume 900))

Abstract

Diabetic Retinopathy (DR) is a common medical disorder damaging the retinal blood vessels of diabetic patients. Regular screening of fundus images and timely detection of the initial symptoms of DR, namely microaneurysms and hemorrhages, are important to reduce the

Chapter 1

Dye-Sensitized Solar Cells: History, Components, Configuration, and Working Principle

S.N. Karthick, K.V. Hemalatha, Suresh Kannan Balasingam, F. Manik Clinton, S. Akshaya, Hee-Je Kim

Book Editor(s):Professor Alagarsamy Pandikumar, Professor Kandasamy Jothivenkatachalam, Professor Karuppanapillai Bhojanaa

First published: 08 November 2019
https://doi.org/10.1002/9781119557401.ch1
Citations: 10

Summary

The dye plays the centralized role in dye-sensitized solar cells (DSSCs) by ejecting the electrons on irradiation and initiating the mechanism. The basic components of DSSCs primarily consist of transparent conducting oxide (TCO) film-coated glass substrates, dye, photoanode, electrolytes, and counter electrode. The basic configuration of DSSCs consists of TCO as a glass as substrate. Compactness with flexible DSSCs can be achieved by modifying the configuration of DSSCs. Working principle of DSSCs is quite interesting due to the flow of electrons from the photoanode to counter electrode, which generates electricity. The working principle of DSSCs involves the following processes: light absorption, charge separation, and charge collection. In DSSCs, solar to electrical energy conversion occurs by ruthenium-based dye-sensitized nanocrystalline titanium dioxide photoanode. In DSSCs, charge separation is carried out by a kinetic approach in the same manner as photosynthesis process hat leads to photochemical action.

References

Kalyaanasundram, K. (2010). *Fundamental Sciences in Dye Sensitized Solar Cells*, vol. **1**, 543. EPFL Press, Published by CRC Press.

Google Scholar

Horvath, A. and Rachlew, E. (2016). *Ambio* **45**: 38–49.

Honest Forwarding Node Selection with Less Overhead and Stable Path Formation in MANET

| Conference paper | First Online: 12 December 2018

| pp 477–487 | Cite this conference paper

Advances in Big Data and Cloud Computing

S. Gayathri Devi & A. Marimuthu

Part of the book series: Advances in Intelligent Systems and Computing ((AISC,volume 750))

Abstract

Mobile Ad hoc Network (MANET) has paid considerable attention to wireless communication. MANET is an autonomous collection of self-deployed nodes without any pre-existing infrastructures and nodes are movable that also act as routers. The main characteristics of MANETs are lack of centralized control, lack of association among nodes,

International Journal of Soft Computing and Engineering (IJSCE)
ISSN: 2231-2307 (Online), Volume-9 Issue-3, September 2019

Significance of Artificial Intelligence and Machine Learning Techniques in Smart Cloud Computing: A Review

V. Radhamani, G. Dalin

Abstract: ***Realization of the tremendous features and facilities provided by Cloud Computing by the geniuses in the world of digital marketing increases its demand. As customer satisfaction is the manifest of this ever shining field, balancing its load becomes a major issue. Various heuristic and meta-heuristic algorithms were applied to get optimum solutions. The current era is much attracted with the provisioning of self-manageable, self-learnable, self-healable, and self-configurable smart systems. To get self-manageable Smart Cloud, various Artificial Intelligence and Machine Learning (AI-ML) techniques and algorithms are revived. In this review, recent trend in the utilization of AI-ML techniques, their applied areas, purpose, their merits and demerits are highlighted. These techniques are further categorized as instance-based machine learning algorithms and reinforcement learning techniques based on their ability of learning. Reinforcement learning is preferred when there is no training data set. It leads the system to learn by its own experience itself even in dynamic environment.***

Keywords: Cloud Computing, Load Balancing, Optimal Solution, Artificial Intelligence and Machine Learning Techniques, Instance-based Learning, Reinforcement Learning

I. INTRODUCTION

In today's world, businessmen at various levels have realized the necessary of automated decision making systems to learn their customers' behaviour and lead their business successfully. It makes the researchers and industrialists to turn towards the analysis of applicability of Artificial Intelligence (AI) and Machine Learning (ML) techniques in their field of interest. The automated intelligent system should be capable to analyze the heterogeneous data generated in multiple sources and identify the underlying patterns and knowledge to support decision making. The generated model is trained with training data, and tested with validation data. Further, the model has to analyze the newly arrived data, and identify their pattern or the hidden knowledge. ML algorithms are categorised as supervised, unsupervised, reinforcement, and deep learning algorithms. This list is extended with fuzzy logic and other evolutionary computations.

Revised Manuscript Received on August 25, 2019.
* Correspondence Author
V. Radhamani*, Assistant Professor, Department of Computing at Coimbatore Institute of Technology, Coimbatore.
G. Dalin, Associate Professor, PG & Research Department of Computer Science, Hindustan College of Arts and Science, Coimbatore.

Supervised learning algorithms use discrete or continuous quantity of labelled data. It consists of classification and regression methods which can be used for data categorization and prediction. The unsupervised learning methods are used to find the efficient representation of unlabelled data. Clustering and dimension reduction are the two basic unsupervised learning methods. In vehicular wireless network, the efficient routing algorithm is proposed with clustering technique alone. It is used to find the cluster of nearby vehicles and identify the central system of each cluster. It supports the formation of risk free communication system. Data aggregation is done by using dimension reduction method [5].

Reinforcement Learning (RL) interacts with the dynamic environment in a trial-and-error manner, and maps the situations and actions based on maximized reward value. The Markov Decision Process (MDP) followed by RL utilizes Q-Learning (QL) function to estimate the expected sum reward based on the policy before taking any action. The optimal QL function estimates the maximum expected reward value. Based on these alone, the suitable action for the current state is decided.

Another popular ML technique is the deeper version of Neural Network (NN), known as Deep Learning (DL). It makes the system to learn from the data represented by any other category of ML algorithms. Evolutionary computations such as evolutionary algorithms are classified as Genetic Algorithm (GA), Meta-heuristic Algorithms and Swarm Intelligence Algorithms.

II. LITERATURE SURVEY

In [1], Hemlata, et.al considered the support of Cloud Computing in the analysis of big data and their concerns during the migration process for load balancing. As per their research results, their proposed algorithm, EAMLB, Enhanced Active Monitoring Load Balancing algorithm was performed well than that of Round Robin method which was equated to deep learning.

In [2], Bakul, et.al. were applied regression technique to predict VMs load and for queue updation.

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Cancer Prediction Through a Bacterial Evolutionary Algorithm Based Adaptive Weighted Fuzzy C-Means Approach

| Conference paper | First Online: 23 August 2018

| pp 95–103 | Cite this conference paper

Advances in Computer Communication and Computational Sciences

M. Sangeetha, N. K. Karthikeyan, P. Tamijeselvy & M. Nachammai

Part of the book series: Advances in Intelligent Systems and Computing ((AISC,volume 759))

Abstract

Clustering of tumor plays a significant part in classifying malignancies from carcinoma genetic data and hence is introduced to deal among the classification problem. It is used in

An Innovative Technique Toward the Recognition of Carcinoma Using Classification and Regression Technique

| Conference paper | First Online: 12 July 2018

| pp 69–79 | Cite this conference paper

Smart Innovations in Communication and Computational Sciences

M. Sangeetha ✉, N. K. Karthikeyan & P. Tamijeselvy

Part of the book series: Advances in Intelligent Systems and Computing ((AISC,volume 670))

Abstract

Usually, the nature of a human body is that the cells start to develop, grow, live for some time, and die after a certain period of time. This phenomenon proceeds until the life span.