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Number of books and chapters in edited volumes / books published, and papers in national/international conference-proceedings per teacher during the year 2022

S. No	Name of the teacher	Title of the book/ chapters published	Title of the paper	Title of the proceedings of the conference	Name of the conference	National / international	Year of publication	ISBN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher	Relevant link
1	Dr.C. Srinivasa Kumar et al	Lecture Notes in Networks and Systems	An Optimized Fuzzy based Resource allocation for Cloud using secured Tabu Search Technique	IEEE Conference	ICICSE 2021 (9th International Conference on Innovations in Computer Science and Engineering	International	2022	978-981-16-8987-1	VMTW	Springer, Singapore	https://link.springer.com/chapter/10.1007/978-981-16-8987-1_17
2	Dr. Samiran Chatterjee et al	Lecture Notes in Electrical Engineering	Design of Wilkinson Power Divider	Springer Conference	3rd International Conference on Communication, Devices and Computing	International	2022	978-981-16-9154-6	VMTW	Springer, Singapore	https://link.springer.com/chapter/10.1007/978-981-16-9154-6_59




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3	Dr. Samiran Chatterjee et al	Lecture Notes in Electrical Engineering	Analyze the DGS Antenna Structure	Springer Conference	3rd International Conference on Communication, Devices and Computing	International	2022	978-981-16-9154-6	VMTW	Springer, Singapore	https://link.springer.com/chapter/10.1007/978-981-16-9154-6_53
4	Dr. Samiran Chatterjee et al	Lecture Notes in Electrical Engineering	Design of Fork Antenna	Springer Conference	3rd International Conference on Communication, Devices and Computing	International	2022	978-981-16-9154-6	VMTW	Springer, Singapore	https://link.springer.com/chapter/10.1007/978-981-16-9154-6_58



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5	Dr. Samiran Chatterjee et al	Lecture Notes in Electrical Engineering	Analyze Different Types of Connector for Design of MSA	Springer Conference	3rd International Conference on Communication, Devices and Computing	International	2022	978-981-16-9154-6	VMTW	Springer, Singapore	https://link.springer.com/chapter/10.1007/978-981-16-9154-6_61
6	Mr. P. Rajendra Prasad et al	Challenges and Possible Solutions for emerging trends in Technologies	Android Malware Detection Using Genetic Algorithm Based Feature Selection and Machine Learning	NA	NA	NA	2022	978-93-5627-706-9	VMTW	Immortal Publications	https://img.immortalpublications.com/book-details?id=95




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7	Mr. P. Rajendra Prasad et al	Lecture Notes in Networks and Systems	An Integrated methodology of TsF KNN Based automated data classification and security for mobile Cloud Computing	Proceedings of 5th ICICC 2021, Volume 2	Computer Communication, Networking and IOT Proceedings of 5th ICICC 2021, Volume 2	International	2022	978-981-19-1976-3	VMTW	Springer, Singapore	https://link.springer.com/chapter/10.1007/978-981-19-1976-3_41
8	Mr. K. Bharath Reddy et al	Challenges and Possible Solutions for emerging trends in Technologies	Signature Recognition and Verification Using Machine Learning Softmax Regression Model	NA	NA	NA	2022	978-93-5627-706-9	VMTW	Immortal Publications	https://img.immortalpublications.com/book-details?pid=95



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9	Mr. R. Krishna Nayak et al	Challenges and Possible Solutions for emerging trends in Technologies	AI Based Crop life prediction and analysis using Machine Learning Techniques	NA	NA	NA	2022	978-93-5627-706-9	VMTW	Immortal Publications	https://img.immortalpublications.com/book-details?id=95
10	Mrs. K. Prathyusha et al	Challenges and Possible Solutions for emerging trends in Technologies	AI Based Identification of Gender from Images Based on Facial Features using CNN and OPENCV	NA	NA	NA	2022	978-93-5627-706-9	VMTW	Immortal Publications	https://img.immortalpublications.com/book-details?id=95



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11	Mr. B. Phijik et al	Challenges and Possible Solutions for emerging trends in Technologies	Real Time Drowsiness Monitoring System for Automobiles Drivers using Deep Learning Techniques	NA	NA	NA	2022	978-93-5627-706-9	VMTW	Immortal Publications	https://img.immortalpublications.com/book-details?id=95
12	Mr. G. Rajesh et al	Challenges and Possible Solutions for emerging trends in Technologies	A Novel Mechanism for Contrast & Color Improvement Based Haze Removal of Underwater Images Using Fusion Technique	NA	NA	NA	2022	978-93-5627-706-9	VMTW	Immortal Publications	https://img.immortalpublications.com/book-details?id=95




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13	Dr. C. Srinivasa Kumar et al	Challenges and Possible Solutions for emerging trends in Technologies	Detection of Fake Profiles on Social Networks using Machine Learning ANN & SVM Algorithms	NA	NA	NA	2022	978-93-5627-706-9	VMTW	Immortal Publications	https://img.immortalpublications.com/book-details?id=95
14	Mr U. Venkat Rao et al	Challenges and Possible Solutions for emerging trends in Technologies	Artificial Intelligence based Smart Warehouse Management in Aviation Sector	NA	NA	NA	2022	978-93-5627-706-9	VMTW	Immortal Publications	https://img.immortalpublications.com/book-details?id=95



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15	Mr R. Krishna Nayak et al	Innovations in Computer Science and Engineering	A Greedy Load Balancing Strategy with Optimal Constraints for Edge Computing in Industrial Cloud Environment	Proceedings of the Ninth ICICSE, 2021	9th International Conference on Innovations in Computer Science & Engineering (ICICSE 2021)	International	2022	978-981-16-8987-1	VMTW	Springer, Singapore	https://link.springer.com/chapter/10.1007/978-981-16-8987-1_4
16	Mrs. A. Rupa et al	Challenges and Possible Solutions for emerging trends in Technologies	Automated Interactive Agent Using Artificial Intelligence and Machine Learning	NA	NA	NA	2022	978-93-5627-706-9	VMTW	Immortal Publications	https://img.immortalpublications.com/book-details?id=95





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17	Mr. C. Sunil et al	Challenges and Possible Solutions for emerging trends in Technologies	Creating a Chabot Using Python and Machine Learning Techniques	NA	NA	NA	2022	978-93-5627-706-9	VMTW	Immortal Publications	https://img.immortalpublications.com/book-details?id=95
18	Mrs B. Geetha et al	Challenges and Possible Solutions for emerging trends in Technologies	Liver Cancer Detection Using Artificial Neural Networks Image Processing Techniques	NA	NA	NA	2022	978-93-5627-706-9	VMTW	Immortal Publications	https://img.immortalpublications.com/book-details?id=95




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19	Dr. Shaik Mastan Basha et al	Challenges and Possible Solutions for emerging trends in Technologies	Emergency alert for women's safety with location tracking	NA	NA	NA	2022	978-93-5627-706-9	VMTW	Immortal Publications	https://img.imortalpublications.com/book-details?id=96
20	Mr. P. Hari Krishna et al	Challenges and Possible Solutions for emerging trends in Technologies	Automatic street light control system using LDR Sensor	NA	NA	NA	2022	978-93-5627-706-9	VMTW	Immortal Publications	https://img.imortalpublications.com/book-details?id=97




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21	Mr. G Ganesh Reddy et al	Challenges and Possible Solutions for emerging trends in Technologies	IOT based smart safety helmet or motorcyclist for avoiding head injuries	NA	NA	NA	2022	978-93-5627-706-9	VMTW	Immortal Publications	https://img.immortalpublications.com/book-details?id=98
22	Mr. M Vishnu Vardhana Rao et al	Challenges and Possible Solutions for emerging trends in Technologies	Artificial Image Classification and Detection Using Machine Learning CNN, SVM and k-NN Techniques	NA	NA	NA	2022	978-93-5627-706-9	VMTW	Immortal Publications	https://img.immortalpublications.com/book-details?id=99




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23	Dr. M Vishnu Vardhana Rao et al	Advanced Machine Learning Applications using Python Programming	NA	NA	NA	NA	2022	978-93-9376-934-3	VMTW	Pandit Publications	https://p-yo-ww-amazon-in-kalias.amazon.in/Advanced-Machine-Learning-Applications-programming/dp/B0BJKB2L8T
24	Dr. G. Apparao Naidu	Introduction to Image Processing - A Complete Guide for Beginners	NA	NA	NA	NA	2022	NA	VMTW	Pandit Publications	https://www.amazon.in/Introduction-Image-Processing-Complete-Beginners/dp/B0BLW6NPNY/ref=sr_1_1?qid=1684918903&refinements=p_27%3ADr.+G.Apparao+Naidu&s=books&sr=1-1



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25	Dr C. Srinivasa Kumar	A Strategic Approach to Data Science Tools and Its Applications	NA	NA	NA	NA	2022	978-93-93769-19-0	VMTW	Pandit Publications	https://www.amazon.in/dp/B0BJFMHQWZ/ref=cm_sw_r_ap_a_i_NKYAKRX7RKBQB6TXN5V_0
26	Dr.S.Ranga Swamy et al	Challenges and Possible Solutions for emerging trends in Technologies	IOT Based Air Pollution Detector using Wireless Sensor Networks Techniques	NA	NA	NA	2022	978-93-5627-706-9	VMTW	Immortal Publications	https://img.immortalpublications.com/book-details?id=95




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27	Mr. T. Pullaiah et al	Use of IoT - Internet of things	VoWiFi Cell Capacity IEEE 802.11ax for VBR Traffic using IOT	NA	NA	NA	2022	978-1-956861-10-5	VMTW	NAMYA PRESS	https://books.google.co.in/books?hl=en&lr=&id=Xy17EAAAQBAJ&oi=fnd&pg=PA65&dq=info:ido7hZNAyJkJ:scholar.google.com&ots=Xs4-LAHpvD&sig=dZDMWIC-SuxaLU1KLswoRQe0oY&redir_esc=y#v=onepage&q&f=false
28	Mr. Vijay R Urkude et al	Introduction to Basics of VLSI Design- A Comprehensive Approach	NA	NA	NA	NA	2022	978-93-93769-37-4	VMTW	Pandit Publications	https://www.amazon.in/Introduction-Basics-Design-Comprehensive-Approach/dp/B0BPMNV4VY/ref=sr_1_2?qid=1686225906&refinements=p_27%3AJ.+Anil+Kumar&s=books&sr=1-2





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29	Mr. P. Hari Krishna	Advanced Digital Image Processing - A Perspective Approach	NA	NA	NA	NA	2022	978-93-9376-936-7	VMTW	Pandit Publications	https://www.amazon.in/Advanced-Digital-Processing-Perspective-Approach/dp/B0BM6F3N4N/ref=sr_1_2?crid=ES6S-SHOONWHN&keywords=Advanced+Digital+Image+Processing+-+A+Perspective+Approach&qid=1686226017&s=books&prefix=advanced+digital+image+processing+-+a+perspective+approach%2Cstripbooks%2C277&sr=1-2



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30	Dr. S. Ranga Swamy et al	Introduction to Cloud computing Infrastructure and it's Applications	NA	NA	NA	NA	2021-2022	9789-3937-6927-5	VMTW	India, Pandit Publications,	https://www.amazon.in/Introduction-Cloud-computing-Infrastructure-Applications/dp/B0BLW7NHW8/ref=sr_1_2?qid=1672917132&refinements=p_27%3ARangaswamy&s=books&sr=1-2
31	Dr. G. Apparao Naidu et al -2022	Introduction to Machine Learning Concepts and Algorithms	NA	NA	NA	NA	2021-22	978-93-93769-33-6	VMTW	Pandit Publications	https://www.amazon.in/Introduction-Machine-Learning-Concepts-Algorithms/dp/B0BJK72PKT/ref=sr_1_2?qid=1684838516&refinements=p_27%3ADr.+G.+Apparao+Naidu&s=books&sr=1-2




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An Optimized Fuzzy-Based Resource Allocation for Cloud Using Secured Tabu Search Technique



C. Srinivasa Kumar, Ranga Swamy Sirisati, M. Srinivasa Rao,
M. V. Narayana, and J. Rajeshwar

Abstract Cloud computing provides on-demand storage and high-performance computing services. There are many other types of services that virtual machines (VMs) can provide for all your requests, depending on the service provider's request for resources. Increasing energy consumption in cloud data centers is a big problem today. Problems with blockchain technology have affected cloud performance. In this work, selective appropriate terms included using the clock scheduling-based stochastic diffusion search (SDS) and optimized fuzzy-based resource allocation are presented.

Keywords Tabu security · Cloud computing · Optimized scheduling · Fuzzy

1 Introduction

Cloud system providers are responsible for managing these systems properly. The scheduler is responsible for selecting the best and most appropriate resources for the task, as well as certain types of static and dynamic parameters and limitations on such functions. In this work, minute-by-minute, maximum–minimum algorithm, and fuzzy schedule are presented. The bottom algorithm considers all unsigned tasks

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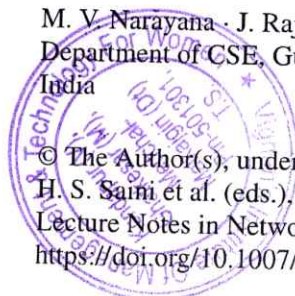
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H. S. Sami et al. (eds.), *Innovations in Computer Science and Engineering*,

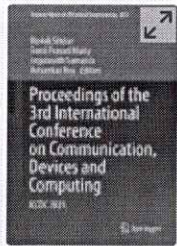
Lecture Notes in Networks and Systems 385,

https://doi.org/10.1007/978-981-16-8987-1_17

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Proceedings of the 3rd International Conference on Communication, Devices and Computing pp 641–647

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Design of Wilkinson Power Divider

[Samiran Chatterjee](#), [Yasaswi Sowmya Tungaturti](#), [Rachana Mahendrakar](#), [G. Naga Sai Bhavani](#) & [P. Priyanka](#)

Conference paper | [First Online: 18 February 2022](#)

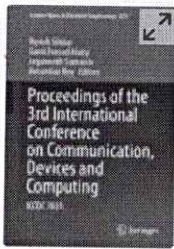
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Abstract

Here, proposes single sided Wilkinson power divider with three transmission line feed. One feed uses as an input port and other two uses as an output port. Here also analyzed that there will be no coupling error between two output ports. The power divider presents in this project with high return loss and VSWR in between 2:1 range. This work achieves good result when port 1 acts as an active port, and other two ports act as a parasitic element. At the above mentioned, condition achieved a resonant frequency of about 5.23 GHz with – 17.69 dB return loss. For the above





Proceedings of the 3rd International Conference on Communication, Devices and Computing pp 567–573

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Analyze DGS Antenna Structure

[Samiran Chatterjee](#), [Uppuluri Shyamala Seshadri](#), [R. Vani](#) & [K. Pravallika](#)

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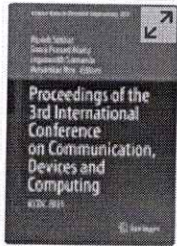
Abstract

Here, we proposed the single feed, dual-layer DGS microstrip antenna for application of any microwave band frequency. In this proposed antenna, antenna consists of cutting two rectangular slots in addition with one circular slot from the patch and added some small rectangular slits with the slots and add two rectangular slits in top layer. Same as from bottom layer use *H*-shaped slots. The proposed antenna simulated with high return loss, increased frequency ratio and VSWR within 2:1 range. From the above-mentioned design of proposed antenna, we achieved a resonant


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Proceedings of the 3rd International Conference on Communication, Devices and Computing pp 631–639

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Design of Fork Antenna

[Samiran Chatterjee](#), [Kulsum Khanam Nayyar](#), [Vemireddy Ramya Sree](#) & [S. Teja](#)

Conference paper | [First Online: 18 February 2022](#)

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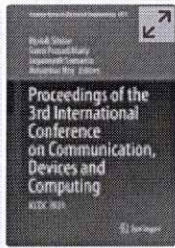
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Abstract

Here, we propose single layer, triple-feed four elements fork array antenna which uses transmission line feed and suitable for different application. The proposed design presents with high return loss and 2:1 VSWR range. This project achieves good result when port 1 and 2 acts as an active port, and port 3 acts as a parasitic element. At the above-mentioned condition, we achieved two resonant frequencies of about 4.37 GHz and 5.31 GHz with -37.2 dB and -65.36 dB return loss respectively. Also -10 dB bandwidth of about 4.69 GHz shows the proposed structure uses as


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Proceedings of the 3rd International Conference on Communication, Devices and Computing pp 663–673

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Analyze Different Types of Connector for Design of MSA

[Samiran Chatterjee](#), [Mukundu Mounika](#), [Patlolla Akhila](#),
[Veeramalla Pratyusha](#) & [Korni Madhavi](#)

Conference paper | [First Online: 18 February 2022](#)

266 Accesses

Part of the [Lecture Notes in Electrical Engineering](#) book series (LNEE, volume 851)

Abstract

In this major project, proposed the analysis of different feeding techniques and try to find that which feeding technique is better in terms of connector. Here in this project proposed antenna analyzed by use of different connector with different feeding techniques. In antenna structure, is applying two feeding methods i.e. Transmission Line feeding and co-axial feeding and also use different connector for different feeding methods. For transmission line feeding uses both transmission line connector and CPW (Co-planar


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Challenges and Possible Solutions for Emerging Trends in
Technologies

Android Malware Detection Using Genetic Algorithm Based Feature Selection and Machine Learning

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Abstract

With the market share of Android system becoming the first in the world, the security problem of Android system is becoming more and more serious. How to effectively detect Android malware has become a significant problem. Permissions and API calls in Android applications can effectively reflect the behaviour patterns of an Android application. Most researchers have only considered a single permission or API feature, and did not consider associations and patterns inside the permission or API features. Some scholars have also tried to find the combination modes inside the permission features in malwares, but the detection of maliciousness according to this combination mode is too absolute. This paper proposes a malware detection method, which combines the advantages of frequent pattern mining and Naive Bayes to effectively identify Android malwares.

Keywords: AI, ML, Android, Malware Detection, Genetic Algorithm.

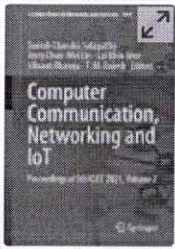
Introduction

With an estimated market share of 70% to 80%, Android has become the most popular operating system for smartphones and tablets. Unsurprisingly, cyber-criminals have followed, expanding their malicious activities to mobile platforms. Mobile threat researchers have recognized an alarming increase of Android malware from 2012 to 2013 and estimate that the number of detected malicious applications is in the range of




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Computer Communication, Networking and IoT pp 329–338

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An Integrated Methodology of TsF-KNN-Based Automated Data Classification and Security for Mobile Cloud Computing

[P. Rajendra Prasad](#) , [V. Rupa](#) & [K. Helini](#)

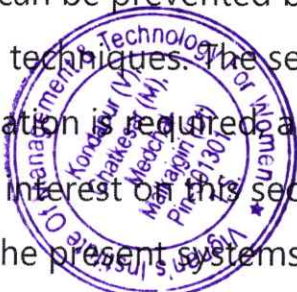
Conference paper | [First Online: 05 October 2022](#)

171 Accesses

Part of the [Lecture Notes in Networks and Systems](#) book series (LNNS, volume 459)

Abstract

In present days, most of the communication systems need the cloud technology. The data is transferred between the number of devices, so there is a chance of threats in the transformation of data. This can be prevented by using the data protection techniques. The security of the communication is required, and personal data can take more interest on this security of big data mobility. The present systems which provide the security are not having that much of efficiency




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Signature Recognition and Verification Using Machine Learning Softmax Regression Model

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Abstract

In today s world forgery of signature is very widely increased. There are many " " sophisticated scientific techniques to identify a correct signature. As signatures are widely accepted biometric for authentication and identification of a person because every person has a distinct signature with its specific behavioural property, so it is very much necessary to prove the authenticity of signature itself. A huge increase in forgery cases relative to signatures induced a need of Signature recognition system. However human signatures can be handled as an image and recognized using computer vision and neural network techniques. In this paper we have taken a set of trained images and stored their features in a database and to test an unknown image we compare the features and calculating the matching factors. We have considered 70 % as threshold for human signature recognition. Regarding creation of recognizer we gave considered HARRIS and SUFR Features. efficient "Signature Verification System.

Keywords: SRVS, AI&ML, CNN, Softmax regression model.

Introduction

Machine learning is the study of computer algorithms that improve automatically through experience and by the use of data. It is seen as a part of artificial intelligence. Machine learning algorithms build a model based on sample data, known as "training data", in order to make predictions or decisions without being explicitly programmed to do so. Machine learning algorithms are used in a wide variety of

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**Challenges and Possible Solutions for Emerging Trends in
Technologies**

AI Based Crop life prediction and analysis using Machine Learning Techniques

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Abstract

This Paper relates to the research area of crop yield prediction, and it provides better decision making in farm management and planning. Pesticide's quantity and dosages are not being considered in the existing studies. Based on studies, the proposed work is focused on prediction of crop pesticides requirement based on ground conditions and its impact on plant cultivation. So, it is necessary to consider the dosages and it gives better information for different crops along with pesticides dosages and this Paper proposes a model and compute reduction of pesticide dosages by introducing the compost pit calculation and tells best crop yield based on season and area and analyzes the moisture content for each crop.

Keywords: *AI, Machine Learning, SEBAL, APAR, GIS.*

Introduction

Agriculture is one of the main supporting sectors of the Indian economy and most of the rural population depends on it for livelihood. India is a country that is rich in terms of food and environmental resources. Nevertheless, such prosperity is gradually reducing and resulting inflow agricultural productivity and low income for the farmer. Farmers additionally lacked insights into agricultural marketing and high-quality production planning. The sector provides about half the amount i. e. , 52 percent of the total number of jobs available in India,



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Challenges and Possible Solutions for Emerging Trends in
Technologies

AI Based Identification of Gender from Images Based on Facial Features using CNN and OPENCV

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Abstract

The main objective of this paper is to classify the gender based on different facial features such as eyes, nose, mouth, overall features such as face contour, head shape, hair line etc. The gender classification algorithm uses machine learning technique (supervised learning). In this case the algorithm is trained on a set of male and female faces and then used to classify new data. In this paper, face detection and gender classification methods are combined. The face detection acts as a pre- processing operation to the gender classifier that determines the gender. There are multiple methods in which facial recognition systems work, but in general, they work by comparing selected facial features from a given image with faces within a database. It is also described as a Biometric Artificial Intelligence based application that can uniquely identify a person by analyzing patterns based on the person's facial textures and shape. Automated gender recognition plays an important role in many application areas such as human computer interaction, biometric, surveillance, demographic statistics etc. Existing systems has a disadvantage in accuracy. Though there are many algorithms in Present system are being developed and implemented to achieve accuracy in identifying gender the results are still unsatisfactory. Proposed system has an advantage of accuracy. The accuracy achieved in this system is impressive compared to the existing system. CNN algorithm gives better accuracy compared to other algorithms.

Keywords: AI & ML, CNN, DNN, OpenCV, Image Processing.

Introduction

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**Challenges and Possible Solutions for Emerging Trends in
Technologies**

Real Time Drowsiness Monitoring System for Automobiles Drivers using Deep Learning Techniques

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Abstract

Drowsiness driving is one of the major problems worldwide and especially in the United States of America. According to National Highway Traffic Safety Administration (NHTSA) statistics, around 90, 000 crashes caused from drowsiness driving between 2015-2017, while the reported deaths approached 4000 people from 2013-2017. There are several reasons making people sleepy while driving; one of the studies shows that driving for a long period of time makes the driver lose their self-judgment and concentration. Sleepiness will affect driver's ability to observe surrounding things to drive safely. There are cases where driver takes medicines that may cause drowsiness and after long working hours or on journeys after long shifts and night shifts. Driver's inattention might be the result of a lack of alertness when driving due to driver drowsiness and distraction. Driver drowsiness involves no triggering event but, instead, is characterized by a progressive withdrawal of attention from the road and traffic demands. Both driver drowsiness and distraction, however, might have the same effects, that is decreased driving performance, longer reaction time, and an increased risk of crash involvement.

Keywords: AI&ML, NLP, Deep Learning, CNN, EEG.



Introduction

According to National Sleep Foundation (NSF), there are some signs of drowsiness that can alert a driver to stop and as, frequent blinking, yawning repeatedly, eye continuously, and/or keeping his/her head up. Earlier

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Challenges and Possible Solutions for Emerging Trends in
Technologies

A Novel Mechanism for Contrast & Color
Improvement Based Haze Removal of Underwater
Images Using Fusion Technique

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Abstract

Scattering and absorption of light in water leads to degradation of images captured under the water. This degradation includes diminished colors, low brightness and undistinguishable objects in the image. To improve the quality of such degraded images, we have proposed fusion based underwater image enhancement technique that focuses on improving of the contrast and color of underwater images using contrast stretching. Our proposed method is very simple and straightforward that contributes greatly in uplifting the visibility of underwater images. In order to improve the visual quality of underwater images we proposed fusion based technique, in which we removal haze caused by suspended particles in water. In order to improve the visual quality of underwater images, we proposed a fusion based technique by which combines the Contrast Limited Adaptive Histogram Equalization (CLAHE) and Guided filter approaches. Initially, the Contrast Limited Adaptive Histogram algorithm is applied on components of the input image to equalize the colour contrast in images. Secondly, the Guided filter approach is applied on the result of first step to improve the colour contrast and solve the issue of lighting. The main idea behind our approach is to make use of only the original degraded image. Instead of merging multiple images taken in different environments. Strength of our approach lies in the choice of appropriate inputs and weight map images.

Keywords: Haze image, CLAHE, guided filter, fusion technique



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**Challenges and Possible Solutions for Emerging Trends in
Technologies**

Detection of Fake Profiles on Social Networks using Machine Learning ANN & SVM Algorithms

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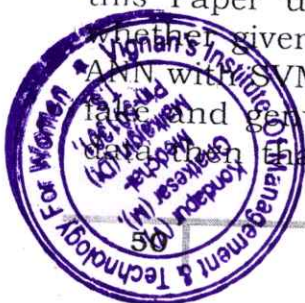
Abstract

Social Networks plays an important role for internet users to carry out their daily activities like content sharing, news reading, posting messages, product reviews and discussing events etc. At the same time, various kinds of spammers are also equally attracted towards these social media. These cyber criminals including sexual predators, online fraudsters, advertising campaigners and trollers etc. These guys are creating fake profiles to spread their content and carry out for scams. All these malicious identities are very harmful for both the users as well as the service providers. From the social media service providers identify those accounts and check it is genuine or fake. In this Paper we proposed many classifications algorithm like support vector machine algorithm and neural network. These algorithms help to detect the fake profiles on social media.

Keywords: Artificial Intelligence, Machine Learning, Social Networks, ANN, SVM.

Introduction

In the present generation, everyone in society has become associated with the social media. These social media have made a drastic change in the way we pursue our social life. In this Paper using Artificial Neural Networks we will identify whether given account details are from genuine or fake users. ANN with SVM algorithm will be trained with all previous users fake and genuine account data and then if we gave new test data that ANN train model will be implemented on new




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Challenges and Possible Solutions for Emerging Trends in
Technologies

Artificial Intelligence based Smart Warehouse Management in Aviation Sector

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Abstract

The advancements in the technologies, the revolution in the business procedures and the entailment to modify the operation in the warehousing as the result of the accumulating orders along with the complications involved in it, and the shortage in the management skill has paved way for the emergence of the smart ware housing. The importance of intelligent warehouse management is very much highlighted during and after the breakout of COVID - 19.

The world is gradually moving towards automation of manual operations which can't be scaled up during peak hours. With warehousing taking a major part in the supply chain and playing an important role in logistics, smart warehousing has become mandatory to improve organizational management and growth. The use of AI in warehousing operations strengthens warehousing functioning in logistics, management and coordination. In this Paper, utilizing AI-based algorithms increases the work efficiency of the Aviation sector.

Keywords: Artificial Intelligence, Pure greedy algorithm, orthogonal greedy algorithm, Relaxed greedy algorithm.


Introduction

Artificial Intelligence is an approach to make a computer, a robot, or a product to think how smart human think. AI is a study of how human brain think, learn, decide and work, when it tries to solve problems. And finally, this study outputs intelligent software systems. The aim of AI is to improve computer functions which are related to human knowledge, for example, reasoning, learning, and problem-solving.



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 Book
cover

Innovations in Computer Science and Engineering pp 31–38

A Greedy Load Balancing Strategy with Optimal Constraints for Edge Computing in Industrial Cloud Environment

R. Krishna Nayak  & G. Srinivasarao

Conference paper | First Online: 26 March 2022

64 Accesses

Part of the Lecture Notes in Networks and Systems book series (LNNS, volume 385)

Abstract

Edge computing has gained popularity as the industrial Internet has expanded due to its reduced latency. Some problems, such as task workload management, continue to be troublesome. This article looks at a distributed industrial cloud system with the help of edge computing. The system suggests an alternative static load balancing approach with restrictions to compensate for the drawbacks of dynamic load balancing. It is divided into the following stages to put this plan into action. First, in the first time, the queue theory is introduced which predicts how long it will take to finish a task. The article formulates and solves the




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**Challenges and Possible Solutions for Emerging Trends in
Technologies**

**Automated Interactive Agent Using Artificial Intelligence
and Machine Learning**

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Abstract

Specifically it will look at development of Interactive agent as a channel for information distribution. The program selects the closest matching response from closest matching statement that matches input utilizing WordNet, it then chooses response from known selection of statements for that response. The paper comes under a major Domain of AI. It also has a sub domain as machine learning, because machine learning algorithm is used in this paper. The scope of this paper is to show the closest match of the input which is provided by the customer. It interacts with a customer until the customer queries get solved. It is used in the business website purpose. Natural Language Processing, allowing users to communicate with college Interactive agent using natural language input and to train Interactive agent using appropriate Machine Learning methods so it will be able to generate a response. There are numerous applications that are incorporating a human appearance and intending to simulate human dialog, yet in most part of the cases knowledge of Interactive agent is stored in a database created by a human expert. **Keywords:** AI, ML, NLP, Chat Bot

Introduction

Interactive agent applications streamline interactions between people and services, enhancing customer experience. At the same time, Agent offer companies new opportunities to improve the customers engagement process and operational efficiency by reducing the typical cost of customer service. To be successful, an Interactive agent solution should be able to effectively perform both of these tasks. Human support plays a




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**Challenges and Possible Solutions for Emerging Trends in
Technologies**

Creating a Chatbot Using Python and Machine Learning Techniques

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Abstract

Chatbots in Python have become wildly popular in the tech and business sectors. Chatbots is a present new way for individuals to interact with computer systems. Traditionally, to get a question answered by a software program involved using a search engine, or filling out a form. A chatbot allows a user to simply ask questions in the same way that it would address a human. Chatbots are currently being taken up at a high rate on computer chat platform. Chatbot applications streamline interactions between people and services, enhancing customer experience. From e-commerce firms to healthcare institutions, everyone seems to be leveraging this nifty tool to business benefits. At the same time, it offers companies a new opportunity to improve operational efficiency by reducing the cost of customer service.

Keywords: Chat Bot, AI, Machine Learning, Python.

Introduction

Technology plays a solid role in the industry and in daily routine tasks. It serves a variety of purposes and is applied in a different way in different parts of the world. Recently, the public has been fantasized by Artificial Intelligence. To be more precise and closely related to humans, the AI Chatbots are now replacing human responses with this software. A Chatbot is a computerized program that acts like a chitchat between the human and the bot, a virtual assistant that has become exceptionally popular in recent years mainly due to improvements in the areas like artificial intelligence, machine learning and other underlying technologies.




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**Challenges and Possible Solutions for Emerging Trends in
Technologies**

Liver Cancer Detection Using Artificial Neural Networks Image Processing Techniques

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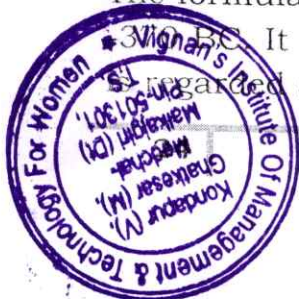
Abstract

The bizarre boom of cells in the liver reasons liver most cancer which is additionally acknowledged as hepatic cancer, where, Hepatocellular Carcinoma (HCC) is the most frequent kind of liver most cancer which makes up 75% of cases. The detection of this tumor is tough and usually discovered at superior stage which motives life-threatening issues. Hence it is some distance fundamental to find out the tumor at an early stage. So that precept intention of this task isto realize liver most cancers at beforehand stage the use of photograph processing technique. Here the malignant liver tumors are detected from Computed Tomography (CT) Images. The photo undergoes enhancement the usage of anisotropic diffusion filters and segmented with the aid of morphological operations which is a easy and handy to work. This operation makes use of mixture of two processes, dilation and erosion. The scope of this propounded approach is to spotlight the tumor vicinity existing in the Computer Tomography.

Keywords: *Liver Cancer, Hepatocellular Carcinoma (HCC), Image Processing, Tumor Detection.*

Introduction

The formula of the time period most cancers used to be in 460 BC. It is credited to the Greek Physician Hippocrates who is regarded as "FATHER OF MEDICINE". Billions of cells in our



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Challenges and Possible Solutions for Emerging Trends in
Technologies

Emergency Alert for Women's Safety with Location Tracking

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Abstract

The world is becoming so much more unsafe for women. Social evils like molestations, dowry, crime against women, worst among all is rape is on the rise in many countries. Incidents of crime against women have been increasing at an alarming pace in Indian cities, most common incidents being rape, kidnapping, sexual harassment and eve teasing.. Security for women is still a major issue as the number of crimes over women and girls is increasing day-by-day. In this age of technology, mobile phone is one gadget almost everyone uses to keep in touch with family and friends. All they need is a device that can be carried around easily and worn whenever the woman feels unsafe.

This proposal document describes a quick responding, cost protection system for an individual and especially for women using which a woman in distress can call for help just with the press of a button on this smart gadget. Self Defense System for women safety is like a Smart Watch for Women. It has the ability to help women with technologies that are embedded into a compact device.

The women wearing this device as a watch or band, in case of any harassment or when she finds that someone is going to harass, she presses a switch that is located on the watch or band or when the woman has fallen the information about the attack along with the body posture and location information is sent as SMS alert to a few predefined emergency numbers And soon help is on its way! The system will consist of embedded



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Challenges and Possible Solutions for Emerging Trends in
Technologies

Automatic Street Light Control System using LDR Sensor

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Abstract

This Paper aims at designing and executing the advanced development in embedded systems for energy saving of street lights with light depending resistor. Nowadays, human has become too busy and he is unable to find time even to switch the lights wherever not necessary. This can be seen more effectively in the case of street lights. The present system is like, the street lights will be switched on in the evening before the sun sets and they are switched off the next day morning after there is sufficient light on the roads. But the actual timings for these street lights to be switched on are when there is absolute darkness. With this, the power be wasted up to some extent. This Paper gives the best solution for electrical power wastage. Also, the manual operation of the lighting system is completely eliminated. In our Paper we are using LDR, which varies according to the amount of light falling on its surface, this give an indication for us whether it is a day/night time. In the present Paper street lights are taken into consideration where the above discussed factors are rectified in them. This is achieved with the help of an embedded system. By using this as the basic principle we can design centralized intelligent system for the perfect usage of streetlights in any place can be developed.

Keywords: LM358, LM324, LDR. GPS

Introduction

Many people have a phobia of darkness, so to assist them in such situations, we have explained a simple circuit that will automatically turn on the street light consisting of LEDs or




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Challenges and Possible Solutions for Emerging Trends in
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IOT based Smart Safety Helmet for Motorcyclist for avoiding Head injuries

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Abstract

Smart Helmet - Intelligent Safety Helmet for Motorcyclist is a Paper undertaken to increase the rate of road safety among motorcyclists. The idea is obtained after knowing that there is increased number of fatal road accidents over the years. Through the study identified, it is analysed that the helmets used is not in safety features such as not wearing a helmet string and not use the appropriate size. Therefore, this Paper is designed to introduce safety systems for the motorcyclist to wear the helmet properly. With the use of Image processing unit using Raspberry Pi and OpenCV , the motorcycle can move if there is helmet pound wearing, in accordance with the Paper title Smart Helmet - Intelligent Safety for Motorcyclist using Raspberry Pi and Open Cv. Safety system applied in this Paper meet the characteristics of a perfect rider and the application should be highlighted. The Paper is expected to improve safety and reduce accidents, especially fatal to the motorcyclist.

Keywords: IOT, KNN, Raspberry Pi and OpenCV.

Introduction

Two-wheelers, the mode of transport most Indians use, continue to be the most vulnerable to accidents. Indian roads were at their deadliest in 2014 claiming more than 16 lives every hour on average. Over 1. 41 lakh people died in crashes, 3% more than the number of fatalities in 2013. Accidents involving two-wheelers and accounted for nearly half of the lives lost in road crashes. While 13, 787 two-wheeler drivers

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Challenges and Possible Solutions for Emerging Trends in
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Artificial Image Classification and Detection Using Machine Learning CNN, SVM and k-NN Techniques

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Abstract

The overall content revolves around the image classification, it is not a huge task for a person to distinguish between natural and the artificial images, but when it comes to a machine it is a major and complex because it is not like everytime, can get the same images. So for that machine learning has come into picture, the machine has to analyze and come to a conclusion for a problem. In machine learning support vector machine is used for the classification of natural and artificial images by comparing all the features from the pictures. And further CNN is used to find the accuracy of the natural image. The objective of SVM algorithm is to find a hyperplane in an N-dimensional space that distinctly classifies the data points. The dimension of the hyperplane depends upon the number of features. If the number of input features is two, then the hyperplane is just a line. The objective of the Convolution Operation is to extract the high-level features such as edges, from the input image. ConvNets need not be limited to only one Convolutional Layer. Conventionally, the first ConvLayer is responsible for capturing the Low-Level features such as edges, color, gradient orientation, etc.

Keywords: CNN, SVM, k-NN, SMCN, AI&ML

Introduction



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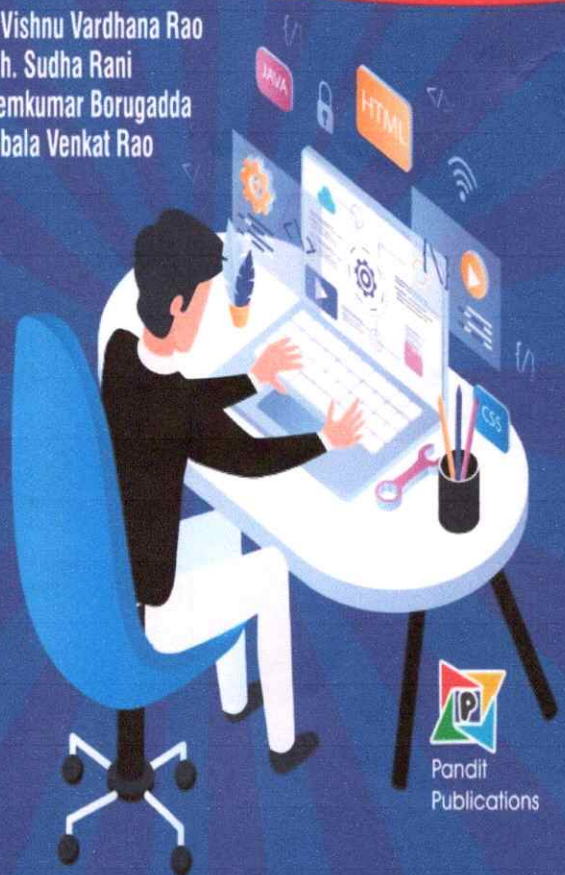
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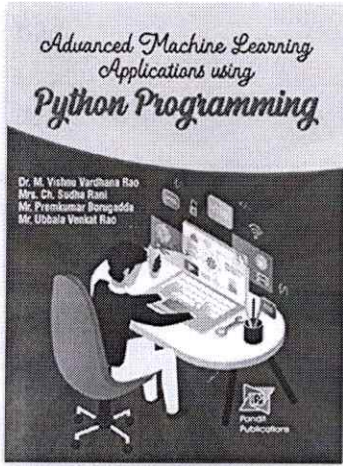
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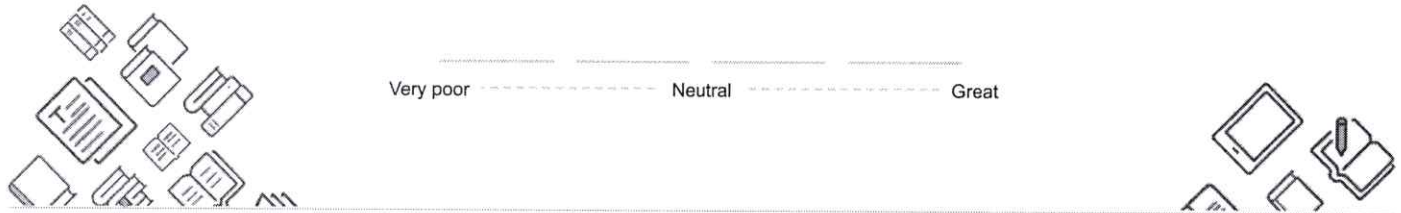
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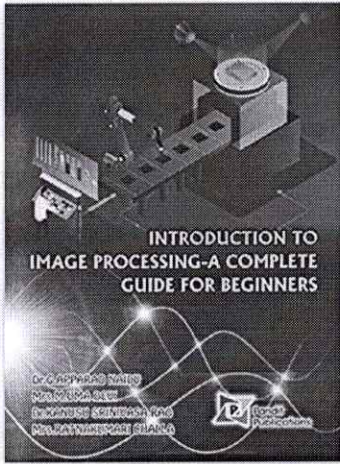




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Dr. C. SRINIVASA KUMAR
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A STRATEGIC APPROACH TO DATA SCIENCE TOOLS AND ITS APPLICATIONS



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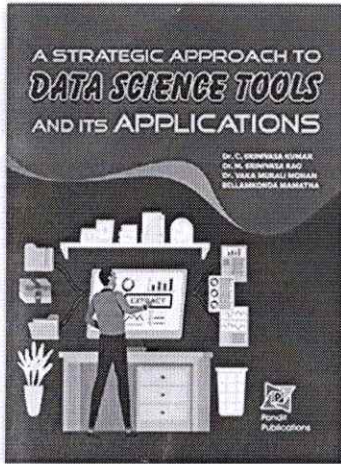
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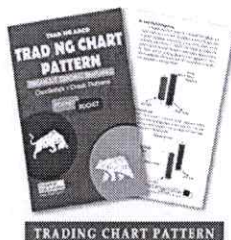
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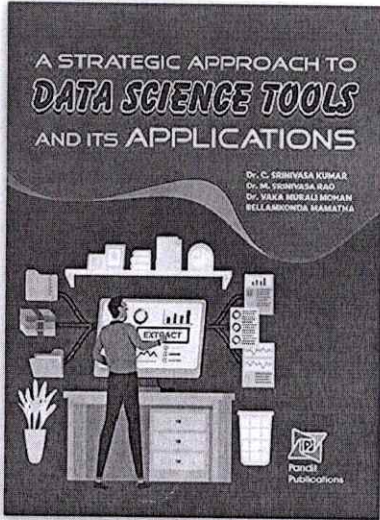
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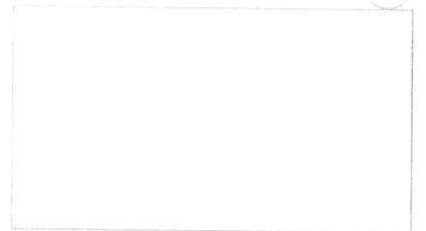
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**Challenges and Possible Solutions for Emerging Trends in
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**IoT Based Air Pollution Detector using Wireless
Sensor Networks Techniques**

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Abstract

The regulation of air pollution levels is rapidly increasing, and it is one of the most important tasks for the governments of developing countries, especially India. It is important that people know what the level of pollution in their surroundings is and take a step towards fighting against it. The meteorological and traffic factors, burning of fossil fuels, industrial parameters such as power plant emissions play significant roles in air pollution. Among all the particulate matter that determines the quality of the air. When its level is high in the air, it causes serious issues on people's health. Hence, controlling it by constantly keeping a check on its level in the air is important. This can be found by using the machine learning algorithms. Therefore, the system would monitor the air pollution in real time and predict the measurements in the next given time interval. The data would be sent to the network using WiFi connectivity and the system was comprised of Arduino UNO V3, ESP8266 WiFi module and MQ2 gas sensor for the initial stage development. This gives help to city planning. Air is one of the most crucial elements in the life of human beings. In today's world, air pollution is rising at an alarming rate because of which there is climate change, and this has adverse consequences on everyone. The air around us is getting polluted because of the release of poisonous gases by industries, vehicle emissions which leads to an increase in the concentration of harmful gases and particulate matter in the atmosphere. The emission of various toxic gases from industries and vehicles is precarious for both the terrestrial organisms, as well as marine life. Health problems like stroke, heart diseases, lung cancer, respiratory diseases, etc are



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CHAPTER - 06

VoWiFi Cell Capacity IEEE 802.11ax for VBR Traffic using IoT

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ABSTRACT

Apart from mobile cellular networks, IEEE 802.11based wireless local area networks (WLANs) represent the most widely deployed wireless networking technology. With the migration of critical applications onto data networks, and the emergence of multimedia applications such as digital audio/video and multimedia games, the success of IEEE 802.11 depends critically on its ability to provide quality of service (QoS). A lot of research has focused on equipping IEEE 802.11 WLANs with features to support QoS. In this survey, we provide an overview of these techniques. We discuss the QoS features incorporated by the IEEE 802.11 standard at both physical (PHY) and media access control (MAC) layers, as well as other higher-layer proposals. We also focus on how the new architectural developments of softwaredefined networking (SDN) and cloud networking can be used to facilitate QoS provisioning in IEEE 802.11-based networks. We conclude this paper by identifying some open research issues for future consideration.

Key: VoWiFi, Cell, Capacity, IEEE 802.11,ax VBR, Traffic, IoT, media access control.



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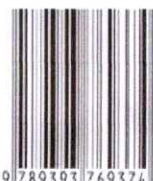
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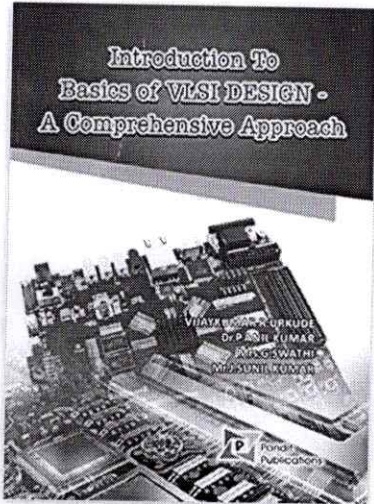
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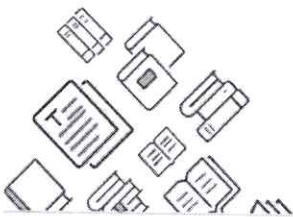
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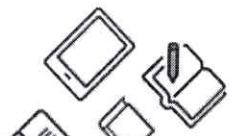
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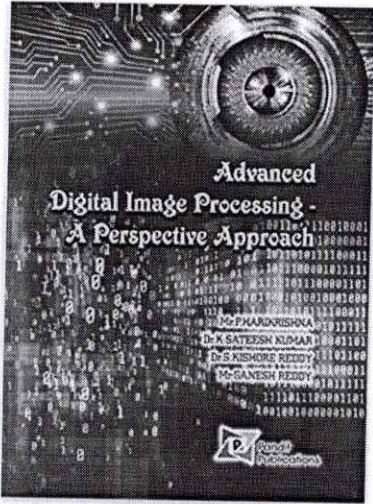
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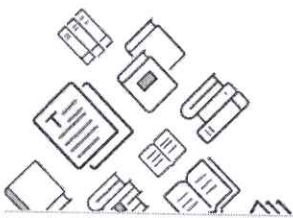
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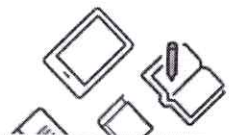
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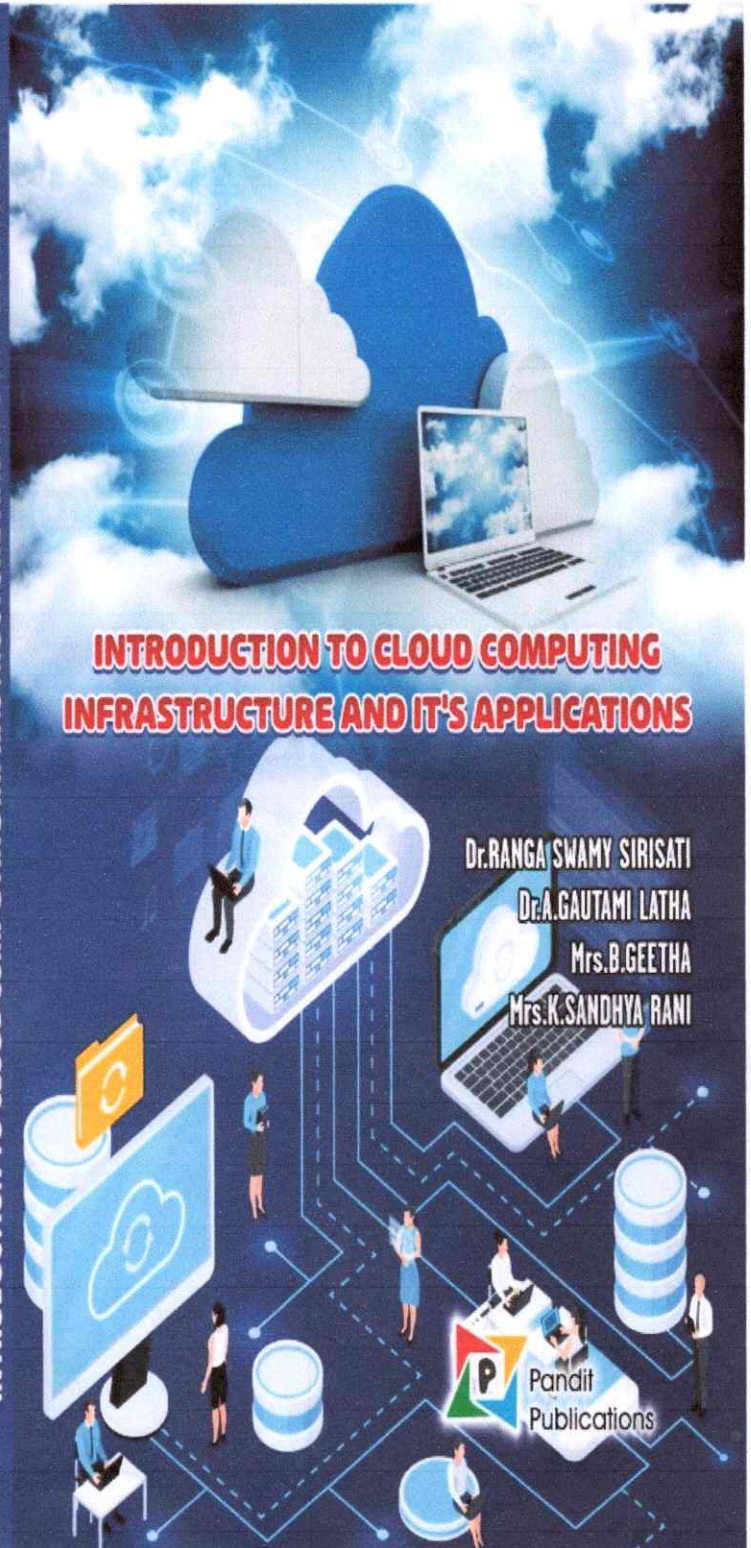


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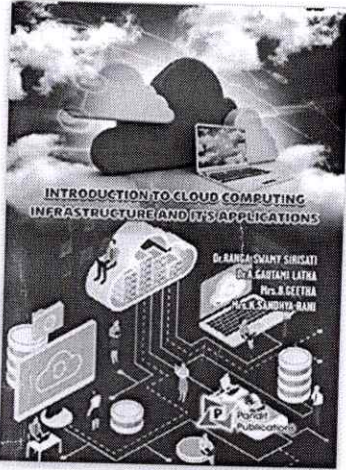
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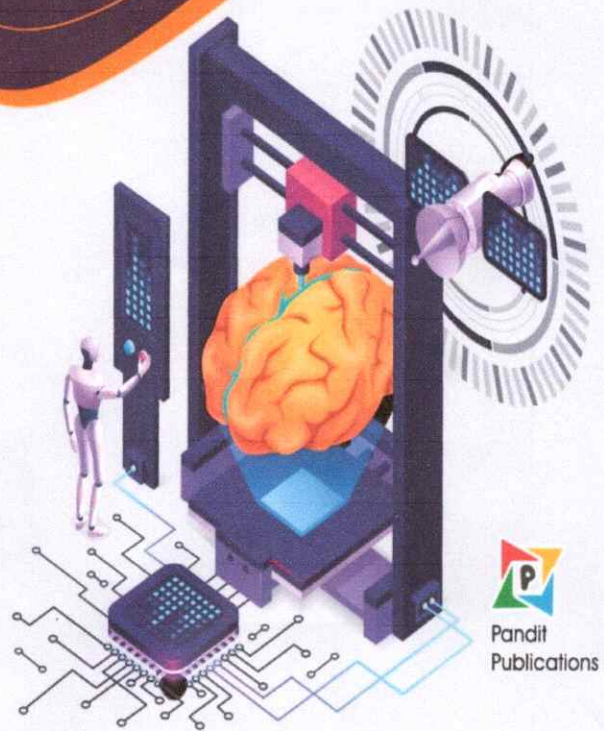


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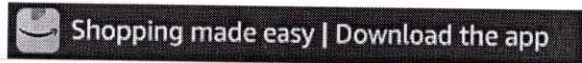
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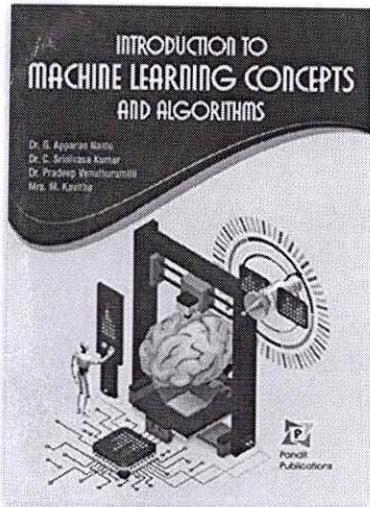




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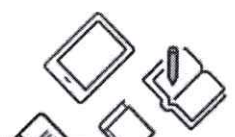
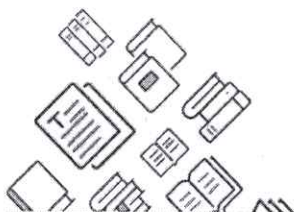
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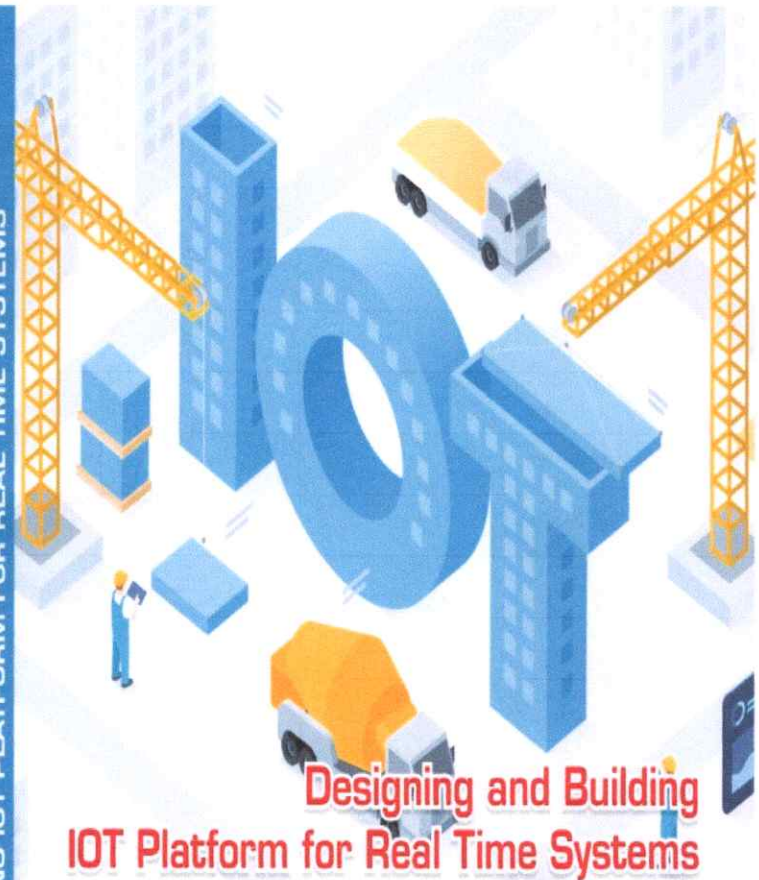


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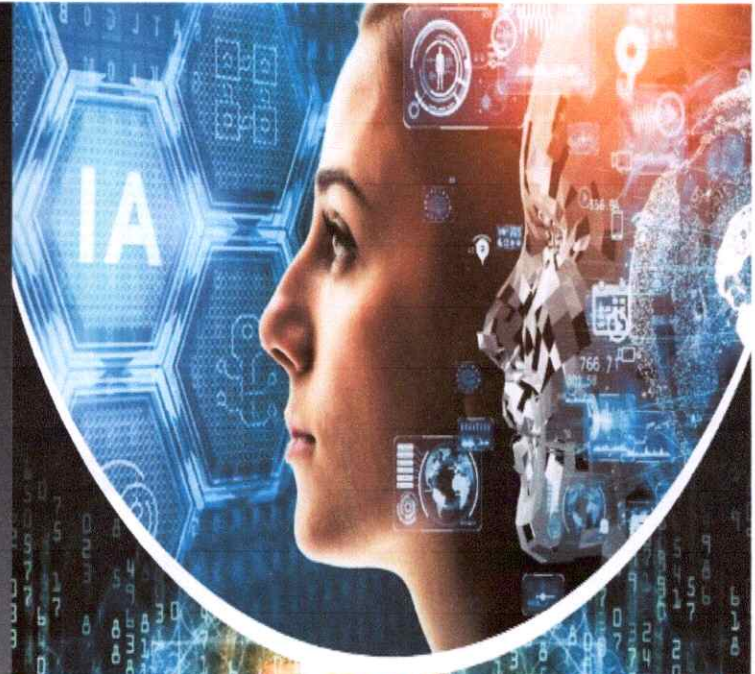
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ARTIFICIAL INTELLIGENCE FOR EVERYONE- APPLICATIONS AND IT TOOLS

Dr. JALLA REDDEPPA REDDY, Mrs. K. HELINI, Mrs. MEDISHETTY SWAPNA, Mr. D. SRINIVASULU



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A Comprehensive Concepts of Computer Networks and Network Security



A Comprehensive Concepts of Computer Networks and Network Security

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Basics of Digital System Design For Beginners

Basics Of Digital System Design For Beginners

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1	Dr. S. Ranga Swamy et al	NA	An Enhanced Multi-Layer Neural Network to Detect Early Cardiac Arrests	IEEE Conference	5th International Conference on Electronics, Communication and Aerospace Technology, ICECA 2021 RVS Technical Campus, Coimbatore	International	2021	978-1-6654-3524-6	VMTW	IEEE	https://ieeexplore.ieee.org/document/9675882
2	Mr. G. Narendra et al	Global Emerging Innovation Summit (GEIS-2021)	Wearable Antennas-An Overview	NA	Global Emerging Innovation Summit	International	2021	978-1-68108-901-0	VMTW	Bentham Science	https://www.eurkaselect.com/197609/chapter/wearable-antennas-an-overvie



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3	Dr. Samiran Chatterjee et al	Lecture Notes in Electrical Engineering	Printed Antenna for C-Band communication	Springer Conference	3rd International Conference on Communication, Devices and Computing	International	22021	978-981-16-9154-6	VMTW	Springer, Singapore	https://content.e-bookshelf.de/media/reading/L-17729161-d86c70c0db.pdf
4	Mr. P. Hari Krishna et al	NA	Classification of Cardiac Arrhythmias using Recurrent Neural Network and selected features	IEEE	5 th International Conference on Information System & Computer Networks	International	2021	978-1-6654-4787-4	VMTW	IEEE	https://ieeexplore.ieee.org/document/9702475




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5	Dr Raja Krishn Moorthy et al	NA	Multi-Parameter Smart Health Monitoring System Using Internet of Things	NA	International Online Conference on "Artificial Intelligence and Machine Learning Enabled 5G Networks: Recent Advances and Challenges (ICAMW-2021)	International	2021	NA	VMTW	NA	NA
6	Mr. M. Vishnu Vardhana Rao et al	NA	Data Mining Technique For Structural Strength Monitoring System Methodologies	IEEE	International Conference On Computer Communication And Informatics	International	2021	978-1-7281-5875-4	VMTW	IEEE Digital Library Xplore	https://ieeexplore.ieee.org/abstract/document/9402640
7	Mrs. K. Prathyusha et al	NA	COVID-19 in India: Lockdown analysis and future predictions using Regression models	IEEE	11th International Conference on Cloud Computing, Data Science & engineering -2021	International	2021	978-1-6654-1451-7	VMTW	IEEE	https://ieeexplore.ieee.org/document/9377052




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9	Mr. Vijaykumar R. Urkude	Algorithms for Intelligent Systems	Design Optimization and Fault Tolerance in Network-On-Chips	Proceedings of Integrated Intelligence Enable Networks and Computing	Proceedings of Integrated Intelligence Enable Networks and Computing	International	2021	978-981-33-6306-9 978-981-33-6307-6	VMTW	Springer, Cham	https://link.springer.com/chapter/10.1007/978-981-33-6307-6_51#citeas
10	Mr. E. Nagaraj et al-2021	NA	Design and analysis of low power Hybrid Full adder using CMOS 45nm Technology	NA	3rd International Conference on Communication, Devices and Computing	International	2021	NA	VMTW	NA	NA




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10	Mr. Vijaykumar R. Urkude	Block chain Technology: Applications and Challenges	Anatomy of Block chain Implementation in Healthcare	NA	NA	NA	2021	978-3-030-69394-7 978-3-030-69395-4	VMTW	Springer, Cham	https://link.springer.com/chapter/10.1007/978-3-030-69395-4
11	Dr. C. Srinivasa Kumar et al	NA	Software defect prediction using optimized cuckoo search based nature inspired technique	Smart Computing Techniques and Applications	Fourth International Conference on Smart Computing and Informatics	International	2021	978-981-16-1502-3	VMTW	Springer, Singapore	https://link.springer.com/chapter/10.1007/978-981-16-1502-3_19




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12	Dr. S. Ranga Swamy et al	Proceedings of First International Conference on Mathematical Modeling and Computational Science	Auto-adaptive Learning for Machine Perception of Native accent using Deep Learning	Advances in Intelligent Systems and Computing	First International Conference on Mathematical Modeming and Computational Science	International	2021	978-981-33-4389-4	VM/TW	Springer, Singapore	https://link.springer.com/chapter/10.1007/978-981-33-4389-4_58
13	Dr. S. Ranga Swamy et al	Lecture Notes in Networks and Systems	An Energy-efficient PSO based Cloud Scheduling Strategy	Innovations in Computer Science and Engineering	Springer Proceedings-Lecture Notes in Networks and Systems	International	2021	978-981-33-4543-0	VM/TW	Springer, Singapore	https://link.springer.com/chapter/10.1007/978-981-33-4543-0_79




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14	Mr. J. Sunil Kumar et al	Algorithms of Intelligent Systems	Assessment On the Adequacy of Dual Current Supply in CMOS Dual Differential Amplifier	NA	1 st International Virtual Conference on Integrated Intelligence Enable Networks and Computing	International	2021	978-981-33-6306-9 978-981-33-6307-6	VMTW	Springer, Singapore	https://Link.Springer.Com/Chapter/10.1007/978-981-33-6307-6_5
15	Dr. S. Ranga Swamy et al-2021	Introduction to Machine Learning- A Perspective Approach	NA	NA	NA	NA	2021	978-93-90761-21-0	VMTW	Shashwat Publication	https://www.amazon.in/Introduction-Machine-Learning-Perspective-Approach-ebook/dp/B093T2LQJ2



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16	Dr. Samiran Chatterjee et al	NA	Low Power High Speed Design Of 4 Bit Ripple Carry Adder Using Domino Logic	Turkish Online Journal of Qualitative Inquiry	sustainable Innovation in Science & Technology	International	2021	NA	VMTW	Scopus	https://www.tojqi.net/index.php/journal/article/view/3385/2294
17	Mrs. M. Hemalatha et al-2021	NA	Low Power High Speed GDI 4 Bit RCA Circuit Design Using 45nm CMOS Technology	Turkish Online Journal of Qualitative Inquiry	International Conference on sustainable Innovation in Science & Technology	International	2021	NA	VMTW	Scopus	https://www.tojqi.net/index.php/journal/article/view/3386/2295




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18	Mr. J. Sunil Kumar et al	Algorithm's of intelligent systems	Design and implementation of High Speed and large bandwidth voltage follower using CMOS technology	NA	1 st International Virtual Conference on Integrated Intelligence Enable Networks and Computing	International	2021	978-981-33-6306-9 978-981-33-6307-6	VMTW	Springer, Singapore	https://link.springer.com/chapter/10.1007/978-981-33-6307-6_88
19	Mr. J. Sunil Kumar et al	NA	High Performance Digital to Analog Converter Using CMOS 45nm Technology	NA	6th International Conference on Inventive Computation Technologies	International	2021	978-1-7281-8501-9	VMTW	IEEE	10.1109/ICICT50816.2021.9358566




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20	Dr. S. Ranga Swamy et al	Algorithms for Intelligent Systems	An aviation delay prediction and recommendation system using Machine Learning Techniques	Proceedings of Integrated Intelligence Enable Networks and Computing	1 st International Virtual Conference on Integrated Intelligence Enable Networks & Computing (IIENC-2020)	International	2021	978-981-33-6307-6	VMTW	Springer, Singapore	https://link.springer.com/chapter/10.1007/978-981-33-6307-6_25
21	M. Vishnu vardhana rao et al	Algorithms for Intelligent Systems	Structural Strength Monitoring System Practices using Machine Learning	Proceedings of Integrated Intelligence Enable Networks and Computing	1 st International Virtual Conference on Integrated Intelligence Enable Networks & Computing (IIENC-2020)	International	2021	978-981-33-6307-6	VMTW	Springer, Singapore	https://link.springer.com/chapter/10.1007/978-981-33-6307-6_26




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An Enhanced Multi Layer Neural Network To Detect Early Cardiac Arrests

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Abstract- Patients and doctors are paying increasing attention to health-care automation because it can save a person's life by predicting ailments early. Many people are suffering from chronological diseases as a result of altering eating habits, regardless of age or gender. "Heart Attacks" is a severe ailment that requires attention from time to time. To date, all automated systems have built models using either classical or ensemble machine learning techniques. Overfitting has affected only a few of these systems, such as random forest and SVM algorithms. As a result, the proposed approach has chosen the "Multi Layer Preceptron" neural network technique, which solves the problem of overfitting and generates an accurate number of correct labels linked with the training model. Instead of using all of the variables mentioned in the dataset, the suggested method assists clinicians in predicting a heart attack in a user at an early stage by assessing only 7 top informative attributes. The model was also compared to other classifiers in order to establish the state of the art, which was determined to be "97.23 percent."

Keywords: Feature Engineering, Greedy Genetic Algorithm, 8- Layered Multi Layer Preceptron Architecture, Ensemble Algorithm, Meta Classifier

I. INTRODUCTION:

Classification is type of supervised machine learning algorithm, which defines a mapping function to draw a relationship between set of inputs and class labels defined in the dataset. The types of machine learning algorithms are shown in figure 1.

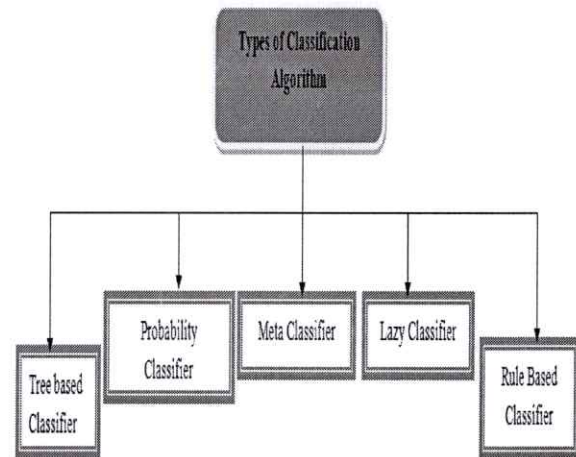


Figure 1: Categories of Classification Algorithm

In Tree based classifier, the proposed system has chosen J48 Algorithm to identify whether a person suffer from heart attack or not by constructing tree based on entropy as decision parameter. Among all the trees, J48 is considered as best decision tree algorithm because it evaluates all the possible subsets and generates the tree as shown in figure 2.

Conditional independence is important in determining the impact of attributes on the class label parameters in a probability classifier. The Bayesian probability, which is popular for generating precise values based on decision rules, is used in conditional probability. The suggested system used a naive Bayesian approach, which yielded positive outcomes during the prediction phase. The



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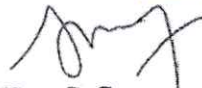
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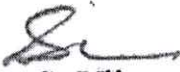
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CHAPTER 32

Wearable Antennas-An Overview

Narendra Gali^{1*} and Narbada Prasad Gupta²¹ Lovely Professional University, Punjab/Assistant Professor, Vignan's Inst. of Mgmt. and Tech. for Women, Hyd., India² School of Electronics and Electrical Engineering Lovely Professional University, Punjab, India

Abstract: The most popular antenna for portable devices in current communication technologies is the wearable antenna due to its compactness and flexibility; demand was rapidly growing and can communicate through signals with the human body and the wearable devices. The advantages of wearable antennas are flexible, hidden, low profile, and no harm to humans. The key benefit of this antenna is that it is placed on the human body or included in clothing, effortlessly transmits, and receives signals through clothes or on-body. These antennas play a vital role in the number of applications, viz. navigation (118MHz to 137MHz), medicine (750MHz to 2.6GHz), military (225MHz to 400MHz), RFID (433MHz to 5.4GHz), physical training, tracking, and health monitoring, etc. This paper discussed the important aspects of wearable antennas, which include materials used, substrate, and fabrication techniques. Next, discussed a clear overview of wearable antennas existing and design aspects, their advantages, and drawbacks.

Keywords: Fabrication Technique, Flexible Antennas, ISM Band, Substrate Integrated Waveguide, Textile Antennas, Wearable Antennas.

1. INTRODUCTION

It has been seen that during the last decade of years, portable devices play a proximity role in human life those are mobiles and tablets. The technology is rapidly changing year by year and the size of the device, visibility decreases. In forthcoming days, sensors are used to control human activities; further devices are used to monitor the different requirements of the human including medical

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Abstract



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- I. Introduction
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- V. Conclusion

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Abstract:

The most frequent kind of heart ailment is cardiac arrhythmia (also known as a tachycardia). The computer-based decision-making method is quite beneficial in the analysis of the Electrocardiogram (ECG) signal and the categorization of CAs, among other things. This research describes an automated categorization of CA's that combines chosen aspects of the ECG signal with a Bidirectional Long Short-Term Memory (BLSTM) network, which is described in detail elsewhere. The linear and non-linear components of the ECG data were extracted and input to two BLSTM networks, which were then coupled together in a fully connected layer. BLSTM networks are the most extensively used recurrent neural networks for evaluating sequential data and are also the most widely used recurrent neural networks. All of the characteristics of the segmented heartbeats are retrieved. The five main forms of CAs are discussed in detail. Normal beat (N), Left Bundle Branch Block (L), Right Bundle Branch Block (R), Premature Ventricular Contraction (V), and paced beat (P) are the five kinds of heartbeats (Q). The findings demonstrate that the BLSTM model, which incorporates both linear and nonlinear characteristics, achieves the maximum accuracy in the classification task at hand.

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DATA MINING TECHNIQUE FOR STRUCTURAL STRENGTH MONITORING SYSTEM METHODOLOGIES

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Abstract— Natural Hazards are the current issues to effect the Building infra-Structures. But the difficult task is to know the status of Building infra-structures, in terms of life time, strength, quality and status of damages in the structures of the buildings. As on today, any automatic methodology are not available for predict or estimate the damages in the infra-structures of the buildings. So essential maintenance can be required. Structural Strength Monitoring System (SSMS) are one of the automatic Monitoring System for satisfying the requirements like predicating damages, classification of damage structures. When SVM classifier is used for calculating the strength of the structures, it cannot effectively handle large data received from big structures but its accuracy for handling small structures is good and ANN classifier handles large amount of data gathered from sensors but its accuracy is low. To design a framework which can effectively handle large amount of data and to improve accuracy rate a hybrid algorithm combining the features of Rough set Support vector machine (RS-SVM) classified structures and Rough set Artificial Neural Network (RS-ANN) is proposed. Structural Strength Monitoring System (SSMS) utilizing Wireless Sensor Systems (WSS) has picked up research interest because of its capacity to reduce the expenses related with the establishment and upkeep of SSMS frameworks. This methodology contains, the combination of both feature subset reduction methods like Rough set theory (RST), Mutual Information (MI) etc. and Classification methods in Data-Mining like SVM, ANN etc.

Keywords-component; Artificial Neural Network (ANN), Mutual Information (MI), Rough set theory (RST), Structural Strength Monitoring System (SSMS), Support Vector Machine (SVM), Wireless Sensor Systems (WSS)

1. INTRODUCTION

CRED (Center for Research on the Epidemiology of Disasters) are the one of the best estimated organization for annual statistical review of the Natural Disasters [1]. Result of this organization show that the total number of disasters are 392 in the year of 2019. This number is less than the average from 2010 to 2018 (376.4). The costs of damage from natural disasters were reported to be 12% higher (US \$154 billion) than the 2010–2018 average. 47% of the world's 395 disasters occurred in Asia.

One place for living the humans are called Building. Building having the different characteristics like age, floor area and presence of plan irregularity are used as basic features or variables for the predicating the damage features or predictor variables for the machine learning models. One of the reason for increasing the occurrences of Natural Disaster is climate changes. From 1950s, the rate of increasing the changes in the climate are goes very high. The deviations in climate are proposed to upsurge the risks to humans. The damage caused by natural disasters to buildings is affected by various factors such as weather conditions, the environment in which the buildings are located, and structure of the buildings [2]. Easterling et al argued that if there are identifiable trends in extreme climatic events such as temperature or precipitation, human impacts on climate change are a very important factor in damage caused to buildings from natural disasters. G.P.Cimellaro et al. make an effort on physical infrastructure interdependency for statistical analysis about the causes and consequences of building damage triggered by natural disasters [3]. Chandler et al. [6] develop the estimate method for damage assessment and fixed the parameters or features of the building structures, for example occupancy, age, interior, exterior and height. In this estimate method, vulnerability curves are used for assess the damages in the building infrastructures. B. Konukcu et al. [7] says that no.of floors, type of construction are also used as the impact parameters for evaluate the effect of disasters on buildings by updating the building damage dataset of Istanbul. Blong et al. [5], the assessment of damage to residential buildings is the most important because they represent more than half of all constructed space. Irrespective of disaster type, the strength of the damages in the buildings are increases every year. Therefore, the disasters are directly or indirectly show the impact on the number of people and associated with the costs [4]. So the major task is to prevent or mitigate the damages. Physical verification of building infrastructures are the first method for mitigate the damages. Manual workers are needed for both classification of structures and physical verification for the identifying the damages in the buildings and its structures. So automation and numerical analysis are used for analysis of building damage triggered by natural disasters which helps to mitigate or reduce the damage, cost.



June 2019

COVID-19 in India: Lockdown analysis and future predictions using Regression models

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Abstract – The new virus named COVID-19 identified in Wuhan, China causes a severe impact on the respiratory system of the human. In considering its effect and spread in the community, the Government of India has imposed World's biggest Lockdown from 25th March 2020. Later on, it was extended in another three phases as Lockdown 2.0, 3.0, and 4.0 with some relaxations in each Lockdown. In this paper, we have studied the COVID-19 patients' data of Confirmed cases, Recovered cases, and Deaths based on before, after, and during lockdowns. The data analysis is done basing on the daily growth rate of confirmed cases, recovery rate, and fatality rate. We have applied Regression techniques viz., Linear Regression, Polynomial Regression of Machine Learning (ML) to predict the future spread of this virus in India. The Polynomial Regression has given accurate predictions comparing with the Linear Regression.

Keywords – Lockdown, COVID-19, Linear Regression, Accuracy metrics, Polynomial Regression.

I. INTRODUCTION

The world is facing one of its most horrible crises regarding public health due to COVID-19, which was first identified in China in late December 2019 [1]. Infection of this virus is no longer limited to Wuhan. By January 2020 nine cases of COVID-19 infection have been stated in Thailand, Japan, Korea, USA, Vietnam, and Singapore through air travel is likely [2][3]. It has spread to almost all parts of the globe with major impacts on health and the economy. The World Health Organization (WHO) has warned that the COVID-19 pandemic is deteriorating worldwide and things won't return to the old normal for some time [4] [5] [6] [7]. An important source for infecting this virus is asymptomatic carriers. Fever, cough, and breathing problems are important symptoms and the infection can be transmitted during the incubation period [8]. The infection rate of COVID-19 looks to be greater than that for the seasonal flu and MERS, with the kind of possible estimates covering the infection rates of SARS and Ebola.

In India, the first COVID-19 case is confirmed on 30th January 2020 in Kerala state. By March 4th, the country has witnessed a sudden jump of 29 cases. The positive cases crossed 100 by March 15th, 2020. The Government has called for a "Janata Curfew" on 22nd March. To face this pandemic, the Government of India has imposed Lockdown for three weeks from 25th March 2020 to 1st April 2020. By the end of March, the number of cases crossed 1000. The Lockdown is further extended in three phases as 2.0, 3.0,

and 4.0 with phase by phase relaxations. On 30 May, the Government stated that the current lockdown would be more prolonged till 30 June in containment zones, with amenities restarting in a phased manner, beginning from 8 June, in other zones. It is termed as "Unlock 1.0" and is stated to "have an economic focus".

Machine Learning (ML) is to acquire more valuable statistics from a large amount of data using an algorithm model for explicit problems. Applications of ML extend to computer science, medicine, statistics, psychology, engineering, etc. ML can be used to handle large data and intelligently predict the spread of the disease. ML can be accomplished in a Supervised or Unsupervised way. In Supervised learning, the system gets a dataset with different example parameter values and decisions/ classification, from which it assumes a mathematical function, which automatically maps input features to a target feature. On the other hand, Unsupervised learning means that the system acts and notices the consequences of its actions, without referring to any predefined type cases other than those observed earlier. In this paper we implemented two Regression models which fall under Supervised learning – Linear Regression, Polynomial Regression on the COVID-19 dataset for future prediction of Confirmed, Recovered, and Death cases in India.

The rest of the paper is organized into four sections. Section 2 presents the Exploratory Data Analysis (EDA) and Lockdown wise analysis is discussed in Section 3. Section 4 we have implemented ML models for future predictions on the COVID-19 dataset. The paper is concluded in the Section 5.

II. EXPLORATORY DATA ANALYSIS (EDA)

Exploratory Data Analysis (EDA) is the first and important step to analyze data and to summarize the characteristics using visualization techniques. This makes us identify the best features required for the Machine Learning (ML) model. The EDA will use tools like correlation matrix, heat map, plots, and frequency distribution to understand and explore the data set.

A. Understand Dataset

The datasets used in this are downloaded from the Kaggle repositories. The dataset complete.csv consists of date wise and state wise data along with the following features.

Date	Date of recording data
Name of State / UT	State or Union Territory name



Proceedings of Fourth International Conference on Inventive Material Science Applications pp 295–306

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Investigation of Structural and Optical Properties of PMMA/PVdF-HFP Polymer Blend System

[Maheshwar Reddy Mettu](#), [A. Mallikarjun](#), [M. Vikranth Reddy](#), [M. Jaipal Reddy](#) & [J. Siva Kumar](#)

Conference paper | [First Online: 20 October 2021](#)

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Abstract

The polymer PMMA and PVdF-HFP blend polymer films have been prepared by solution casting technique. These blending polymer films were investigated by X-ray diffraction (XRD), scanning electron microscopy (SEM), FTIR and UV optical absorption techniques. The peaks of PMMA are disappeared gradually with blending of PVdF-HFP which is revealed by XRD where structure modified semi-crystalline to amorphous phase. PMMA surface morphology reveals a rough surface. SEM



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Design Optimization and Fault Tolerance in Network-On-Chips



Vijaykumar R. Urkude

Abstract Network-on-chip (NoC) is a rising worldview for on-chip data transfer of vast VLSI systems actualized on one chip. System architecture of NoC mounts processor centers, memory centers, and specialized intellectual property (IP) squares trade data on an on-chip network. NoC replaces committed, design-explicit interconnection (transports, point-to-point ports, and so on.) in system-on-chip (SoC) with adaptable, universally useful network. SoC sets up a correspondence between the modules under the imperative of deadlock opportunity. We make utilization of the intrinsic repetition in NoCs because of numerous ways between parcel sources and sinks and propose distinctive fault-tolerant routing schemes to accomplish much preferred fault tolerance abilities over conceivable with traditional routing schemes. This paper focused on the concept of NoC, its design space and automation tools, NoC architecture, optimization of network, algorithms, and fault tolerance in NoC.

Keywords Fault · Network-on-chip · Routing · System-on-chip

1 Introduction

Developing interest of capacity in the electronics devices, we have to suit numerous highlights in the chip. What is more, this has conceived an offspring of another measurement called system-on-chip (SoC). SoC is to get organized like interconnections which is called network-on-chip (NoC) design [1]. The switch-based interconnection instrument gives a lot of versatility and adaptability from the obstruction of complex wiring. Substitution of SoC transports by NoCs offers high versatility and the ordinariness of a system structure. The NoC similarly reduced the SoC fabricating cost, SoC time to advertise, SoC time to volume, and SoC setup possibility. The NoC approach has an obvious ideal position over ordinary transports and most exceptionally structure throughput. The requests of crossbars or multilayered transports have characteristics some place amidst customary transports.

V. R. Urkude (✉)

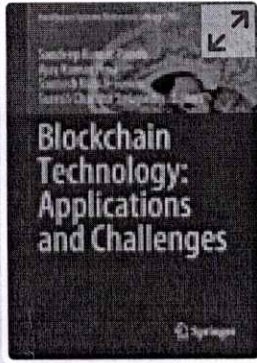
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Blockchain Technology: Applications and Challenges pp 51–76

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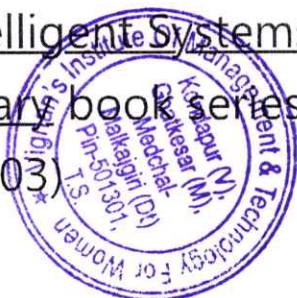
Anatomy of Blockchain Implementation in Healthcare

[Shubhangi V. Urkude](#) , [Himanshu Sharma](#), [Seethamsetty Uday Kumar](#) & [Vijaykumar R. Urkude](#)

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Software Defect Prediction Using Optimized Cuckoo Search Based Nature-Inspired Technique



C. Srinivasa Kumar, Ranga Swamy Sirisati, and Srinivasulu Thonukunuri

Abstract These days, software systems are very complex and versatile. Therefore it is essential to identify and fix the software error. Software error assessment is one of the most active areas of research in software engineering. In this research, we are introducing soft computing methods to assess software errors. Our proposed technique ts software gives errors and accurate results. In our proposed method, the error database is first extracted, which acts as an input. After that, the collected input (data) is clustered by the clustering technique. For this purpose, we use the modified C-Mean Algorithm. Therefore, the data is clustered. An efficient classification algorithm then groups clustered data. For this reason, we use a hybrid nervous system. Therefore, there are software bugs, and these errors are optimized using the MCS algorithm. Our proposed method for software error assessment is implemented on the Java platform. Performance measurement is measured by various parameters such as execution rate and execution time. Our proposed Cuckoo search based strategy is comparable to many existing strategies. Graphical representation of comparison results from our proposed strategy for identifying software proposals is one that effectively evaluates profitable strategy and reasonable reference rates.

1 Introduction

Software Defect Prediction (SDP) plays an essential part in reducing software development costs and maintaining Achilles' and others' high quality (2017). When there is a recurring software failure in the system, it automatically causes a software error. Software error is a bug introduced by software developers and shareholders. A software vulnerability assessment's primary purpose is to improve the quality,

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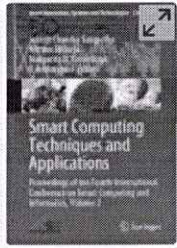
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Smart Computing Techniques and Applications pp 183–192

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Software Defect Prediction Using Optimized Cuckoo Search Based Nature-Inspired Technique

[C. Srinivasa Kumar](#), [Ranga Swamy Sirisati](#) & [Srinivasulu Thonukunuri](#)

Conference paper | [First Online: 14 July 2021](#)

416 Accesses | **1** Citations

Part of the [Smart Innovation, Systems and Technologies](#) book series (SIST, volume 224)

Abstract

These days, software systems are very complex and versatile. Therefore it is essential to identify and fix the software error. Software error assessment is one of the most active areas of research in software engineering. In this research, we are introducing soft computing methods to assess software errors. Our proposed technique ts software gives errors and accurate results. In our proposed method, the error database is first extracted, which acts as an input. After that, the collected input (data) is


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Auto-Adaptive Learning for Machine Perception of Native Accent Using Deep Learning



Mekala Srinivasa Rao, P. S. V. Srinivasa Rao, and S. Ranga Swamy

Abstract One of the solutions to artificial intelligence is machine learning. It enables us to create machines that can learn from experience rather than be programmed explicitly. Current formulations of machine learning are mostly designed with the help of data available for learning and performing specific tasks from neural networks. Deep learning is an effective machine learning approach that can solve multiple and specific tasks with mini mother change. Deep learning extends machine learning to multi-level distributed representations with the necessary mapping functions into a single composite function, and in particular neural networks. Along with their capability to learn dynamic hierarchical representations, the advent of deep learning and neural networks has opened up the way for continuous training. The main objective of this thesis is to research and establish a systematic approach to continuous learning that facilitates the success of profound education and neural networks.

Keywords Deep learning · Machine learning · Artificial intelligence · Neural networks

1 Introduction

Based on current artificial intelligence (AI) research, the imitation of a typical human brain. Computers are faster than humans but not smarter than human brain, because the human brain has much intelligence than a computer. That is.

- Recognizing
- Accepting
- Listing
- Feeling
- Intellectual

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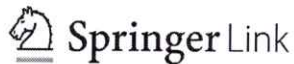
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An Energy-Efficient PSO-Based Cloud Scheduling Strategy

Innovations in Computer Science and Engineering pp 749-760 | Cite as

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Conference paper

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Abstract

Cloud computing provides useful services to users with extensive and scalable resources that virtualized over the internet. It defined as a collection of the communication and computing resources located in the data-center. The service based on on-demand is subject to QoS, the load balance, and certain other constraints with a direct effect on the user's consumption of resources that are controlled by this cloud infrastructure. It is considered a popular method as it has several advantages that have been provided by a cloud infrastructure. The cloud scheduling algorithm's primary goal was to bring down the time taken for completion (the cost of execution) of the task graph. The start time and the finish time for the task node influence the task graph completion completed to the time (the cost). The task node sort order an essential aspect that influences the start time and the finish time for every task node. In a hybrid cloud, efficient dense particle mass-based cloud scheduling is efficient because users need to maintain the security of the hybrid cloud. Different algorithms with different algorithms suggested by researchers in the cloud. This paper proposes particle swarm optimization (PSO)-based cloud optimal scheduling. Effective results obtained in an efficient fuzzy mass-based PSO cloud scheduling.

Keywords

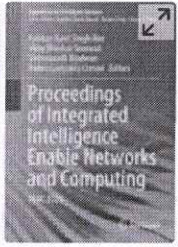
Cloud scheduling Particle swarm optimization Cloud tasks Load balance

Fuzzy sets

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Proceedings of Integrated Intelligence Enable Networks and Computing
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Assessment on the Adequacy of Dual Current Supply in CMOS Dual Differential Amplifier

[Venkateswarlu Mukku](#)  & [J. Sunilkumar](#)

Conference paper | [First Online: 24 April 2021](#)

602 Accesses | **1** Citations

Part of the [Algorithms for Intelligent Systems](#) book series (AIS)

Abstract

This paper proposed a method, which aims to increase the fault detection and mitigate faults which are identified in CMOS analog and digital circuits. This proposed technique is applied to a typical dual differential CMOS circuits. The proposed test includes a dual current-based test technique, which needs a fault-free circuit which combines with quiescent supply current and transient supply current methods to provide a fault confirmation by providing some known faults. A built-in dual current supply technique, which



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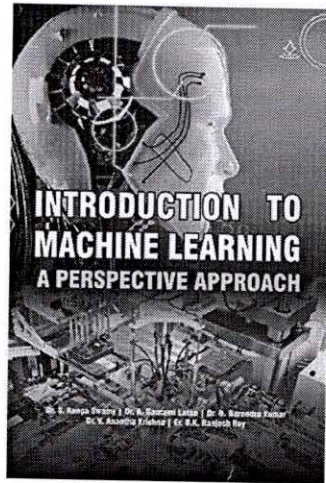


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by Dr. S. RANGA SWAMY (Author), Dr. A. Gautami Latha (Author), Dr. B. Narendra Kumar (Author), & 2 More Edition Format: Kindle

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Machine learning was built from an engineering perspective, while machine learning was born out of a computer science approach. In the one side the operations may be looked at as two different areas, but they have grown in tandem over the past years and around the same period. Other than the univariate methodology (the conventional way of doing things), there has been a great rise in non-uniform approaches. , algorithmic and graphical simulations are being used for statistical and quantitative trading in all kinds of markets. Also, the functional applicability of Bayesian approaches has been significantly improved by the development of a variety of

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Low power High Speed Design of 4BIT Ripple Carry adder using Domino logic

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Abstract

Accurate domino logic circuit keeper control can enlarge the performance, speed. Although, keeper feedback circuit is correlated with the positive feedback gain excessively delay variability is expanded. The main aim is to decrease the delay and reduce the loop gain effect, here domino clock delayed dual keeper (CDDK) circuit is conferred .During the commencing estimation phase, disabled the two keeper devices of the keeper circuit in CDDK domino structure. By decreasing the dispute current concurrently the circuit speed of operation is intensified. The carried out various metrics and outcomes are analyzed for the circuit simulations .Moreover , the simulations are accomplished on a 4-bit ripple adder using structure of CDDK demonstrate decreased characteristics of delay variability due to the domino CDDK structure smaller loop gain in opposition of domino circuit The demonstration of intensified by turn down variance current. Through the counterpart of domino logic circuits in opposition of comparison outcomes are validated. By using this tanner power consumption is around 8 micro watts. The analyzing of circuits is carried out using standard CMOS tanner tool using library of 45nm technology.

Keywords— Domino logic, delay, domino ripple adder low power consumption.

I. INTRODUCTION

Very large scale integration technology [1] is a methodology in which more number of transistors are fabricated on silicon area. In CMOS technology dynamic logic method play an important role in designating more logic circuits. By using dynamic logic method we can optimize more number of parameters related to digital engineering. Dynamic logic methodology plays an important role in VLSI. This will increase the operation of the circuits. To implement dynamic logic circuit on silicon it consumes less space when compare to the static transistor technology. By using this dynamic logic circuits to design any digital circuit it becomes more complicated rather than static transistors. And also to perform it will consume more power. Power consumption by the dynamic logic circuit is more and power delivered to the load is less, if power delivered [2] to the load is less which will decreases the circuit's efficiency. So to enhance the performance of the dynamic logic circuit, and to decrease the delay, to reduce the power consumption. To avoid all stated problems domino logic circuit arrangement is well suited. Due to low noise margin the speed of the domino logic circuit is more compared to static logic gates. In large circuit implementation domino logic circuit operation will play an important role. Which will consumes less space and increased the operation of the circuit compared to the static conventional CMOS circuit. Domino logic circuit arrangement is well suited at integration of more number of circuits on silicon.

Domino addressing a extreme impact in the essential applications of consumption of low power and high-speed [3], like as comparators tag, read out register the paths, programmable encrypt, memories of multiport and SRAM pre-decrypt gate, by the utilization of domino logic style the fan-in gates wide realization is astounding



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Low Power High Speed GDI 4-bit RCA Circuit design using 45nm CMOS Technology

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Abstract

In Digital Engineering, if we want to design a 4Bit adder which is very essential component in an arithmetic logic circuit (ALU) and also plays a crucial role in all the computational circuits as well. In this paper, 4 bit ripple adder using a one bit full adder is designed at 45nm CMOS technology. to design a full adder, we require XOR, OR, AND logic gates, where we combine all the above logic gates to get a one bit full adder finally. The GDI (gate diffusion input) it is a technique in which number of transistors required to design specific application will gradually reduce. When it is compared with the conventional circuit, by using GDI not only reduces transistors count but also power consumption. The maximum power saving is of 93.04%, the delay is saved by 76.76% and coming to the overall PDP the saving is of 96.01%. By considering 4- full adders we can build a 4-bit ripple carry adder. Hence the whole designing can be done at supply voltage 1.8V as we are using 45nm CMOS technology.

Keywords— GDI Technique, OR gate, AND gate, 1 FA, 4 bit RCA, low Power consumption.

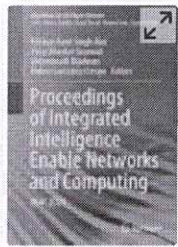
I. INTRODUCTION

Day by day electronic portable systems based on the battery usage demand is increasing, for driving the devices which are portable they require battery. In designing personally communicating devices, mobile phones, laptops and notebooks important concern is speed and power consumption. In VLSI technology [1-4] the parameter which plays important role is power consumption. For making circuitry cool we require cooling fan because of reducing battery life and increase in heating due to more power consumption. The cost of the whole system is affected and the battery life because of the more power consumption. Which discussed in the above devices and digital communication devices mostly are used in the applications such as microcontrollers, video and image processing and digital signal processing operated in the different operations multiplication, addition, subtraction. In the adder cells internally the different operations are performed like multiplication, subtraction, addition. In the digital communication devices designing more vital role is played by the one bit adder. Addition operation is performed by integrating the 1-bit full adder cells [5] in multiple of number digital communication devices frequently, the whole system performance is determined by the adder cells and adder cells is the reason which plays an vital role.

The adder circuit performance and dissipation of power is affected due to the increase in the complexity of the circuit and chip area is reduced. To reduce the power dissipation and size of chip in VLSI design the circuit is concerned in low power. In MOSFET technology the number of types of dissipation of power is two types they are dynamic power dissipation and static power dissipation. The parameters which Effects the device of the static power dissipation are reverse - biased junction leakage, sub threshold leakage, gate induced drain leakage and gate direct tunneling leakage of scaling parameters effected majorly. Power of short circuit and switching are mainly considered in dynamic power dissipation. The theoretical calculations of dynamic power dissipation and static power dissipation respectively P_s is the product of the leakage current and supply voltage [6]. P_D is the product of half of the operating frequency, load capacitance with square of logic voltage swing. The different




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Design and Implementation of High Speed and Large Bandwidth Voltage Follower Using CMOS Technology

[M. Srilakshmi Ravali](#) , [Lalitha Malladi](#) & [J. Sunilkumar](#)

Conference paper | [First Online: 24 April 2021](#)

616 Accesses

Part of the [Algorithms for Intelligent Systems](#) book series (AIS)

Abstract

Signal parameters are playing an important role in designing analog and mixed signal circuits. In this paper, we proposed a technic called modified conventional voltage follower. It is a technic which is used to enhance the bandwidth and slew rate. The proposed method has 60 MHz bandwidth, 22.5 V/ μ s slew rate, and FOM figure of merit of 52 (MHz \times pF/ μ W) for load capacitance = 20 pf. By this proposed method, higher current and higher bandwidth than the standard voltage follower by




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High Performance Digital to Analog Converter Using CMOS 45nm Technology

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Abstract - This article represents about 8-bit digital to analog converter (DAC). A digital to analog converter (DAC) takes a digital signal and converts it to an analog signal (i.e; continuous form) to drive the interfaces with the real-world such as a speaker in the cell phone or the LED display on your watch. As such, anytime a digital circuit has to interface to a display or a speaker or an antenna or any number of other devices that need to be driven by an analog input and required a digital to analog converter (DAC). Digital to analog converter (DAC) is more efficient and substantially more accurate to do signal processing in the digital domain (i.e language used by computers). This article represents a digital to analog converter (DAC). The DAC was implemented by using 45nm CMOS technology. It also consumes 1.46mW of power from 1.8v supply voltage. The noise margin of the DAC is 9dB.

Keywords—Current mirror, Differential amplifier, Common source amplifier, R-2R DAC

I. Introduction

The real-world information (or) data is in the form of analog. The storing of digital information (or) data is easy when compared to storing analog data. There are few benefits of storing digital information i) Analog information [1] requires more memory to store the digital form. ii) Digital signal contains less noise iii) Digital data is encoded and refuge features. In real-time applications digital to analog converter is used to receive the signal and analog to digital converter to send the signal through the transmitter. The analog data if interfaces the digital data [2] by using the [5] in real-world applications. The sensors to sense the environment changes and gives the output then transducer is used to convert any form of signal to the electrical signal and vice versa. There are many uses of DAC in electronic devices like in the i-phone because it is not having inbuilt headphones for converting audio, communications for converting digital data into analog data, mobile phones, etc. There are two types of DAC [3-6] they are summing amplifier and the R-2R ladder DAC. The output voltage of the DAC is 2.7v.

II. Literature survey

In [1], the author proposed a 65 nm CMOS 6-bit 60 GS/s Time Interleaved DAC with Full-Binary Sub-DACs. The more integrated DACs are interfacing with the multiple 2-channel 6-bit indistinguishable 20 Gs/s DACs. The DAC which has exactly two children or zero for each node makes the DAC firm and powerless. By the heterogeneous analog signal and enhancing timing remove the bug in the software in the major areas. The archetype DAC achieved a low figure of merit and a high SFDR ratio. In [2], the author proposed a 12-bit 20-MS/s SAR ADC with Fast-Binary-Window DAC Switching in 180nm CMOS. The main drawback of the DAC in is the total capacitance. This leads to the standardization of the capacitor technique which is typically used for a mismatch. The main usage of this standardization technique is to correct the errors in the capacitor by using digital post-processing by consuming additional power and implementing complicated hardware. Another scheme called capacitance swapping is introduced to improve the linearity of DAC by interchanging the total capacitance one half with the other half. To have finer linearity, DAC error which is caused by the capacitor mismatch through the MSB capacitor switching error is randomized it is removed to decrease the SNR [7] i.e signal to noise ratio. [2]. In [3], the author suggested a Systematic method to find an Optimized Quad-Quadrant Random Walk Sequence for reducing the Mismatch effect in Current Steering DAC. Linear distribution: The density of the oxide and stupefy of the wafer are the main causes for which linear error profile was shown in source current array $L(x, y) = gL * \cos \theta * x + gL * \sin \theta * y$ (Gradient angle is denoted by θ , gL is denoted by linear gradient slope). Quadratic distribution: Quadratic profile variation is shown by the mechanical stress on the temperature gradient and the die $Q(x, y) = gQ * x^2(x^2 - y^2) - a_0$ (parameters gQ and a_0 are the dependent on the technology). Joint distribution: It is the emplacement of linear



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An Aviation Delay Prediction and Recommendation System Using Machine Learning Techniques



Ranga Swamy Sirisati, Kalavala Gowthami Prasanthi,
and Anga Gautami Latha

Abstract Aviation recommendation and delay prediction (ARDP) systems are data filtering strategies that use algorithms and data to recommend the most favorable aircraft for specific customers. User reviews, comments, and shared experience of aeronautical advice official information about user preferences on recommended systems. Due to the experience of computational models and small data, controlled decisions do not fall within a specific range. This proposal addresses data recommendation and parallel processing issues using supervised machine learning techniques. Large-scale decision-making techniques are used to find alternatives to implement different types of computing structures. It recommends operating systems such as variables or data reduction, data switch cleaning, and operation clustering.

Keywords Delay prediction · Aviation · Machine learning

1 Introduction

The airline trips are similar to store-sales consultants' forecast system in ARDPs, which ask about customer preferences and then show the aircraft. In e-commerce, the software does this automatically. It will start referring after checking the flight instructions. It is essential part of personalizing a Web site. Based on the algorithm and the data collected, this feature is called personal aviation advice ARDP, which

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Structural Strength Monitoring System Practices Using Machine Learning



M. Vishnu Vardhana Rao and Aparna Chaparala

Abstract Structures are exceptionally helpless against impacts like natural effects, earthquakes, and typhoons. Along these lines, the organizer must know the damage and quality status of the structures in time so that essential maintenance is performed. More imaginative auxiliary damage identification systems connected to the current structures for Structural Strength Monitoring (SSM), particularly substantial scale structures, and many testing strategies are nondestructive. Considerations are attracted to how to utilize the present estimation information to create an outcome with less vulnerability, paying little intelligence to estimate clamors and natural assortments, such as evolving temperature, humidity, and load condition. This work presents two contributions. The role of sensors utilizes the Wireless Sensor Systems for diagnostic faults in the building. So Structural Strength Monitoring System (SSMS) utilizing Wireless Sensor Systems has considered as predominant research area because of its capacity to decrease the expenses related to the establishment and maintenance of SSMS frameworks and provides an extensive study of SSMS utilizing WSNs, drafting the calculations utilized in risk discovery and confinement, laying out system configuration difficulties. Another novel hybrid classification method which combines the features of Rough set (RS) with support vector machine (RS-SVM) and also with artificial neural network (RS-ANN). RS-SVM is used to classify the structures, and RS-ANN is used to predict the damage levels. The experiment results compared with the new SVM classifiers and identified that our approach got higher accuracy.

Keywords Rough set support vector machine (RS-SVM) · Rough set artificial neural network (RS-ANN) · Structural strength monitoring system (SSMS) · Wireless sensor systems (WSNs)

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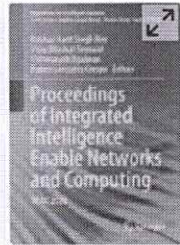
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Proceedings of Integrated Intelligence Enable Networks and Computing pp 459–470

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An Adaptive Deep Learning Model to Forecast Crimes

[C. Srinivasa Kumar](#) , [S. Ranga Swamy](#), [I. Navakanth](#) & [J. V. N. Raju](#)

Conference paper | [First Online: 24 April 2021](#)

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Abstract

Assessing crime is an important process as crime is on the rise these days. Assessing cybercrime can be a daunting task. It can be challenging to collect existing data and work on new techniques. In cybercrime, direct real-time assessment is obligatory. However, it is difficult to pinpoint when the



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1	Dr. S. Ranga Swamy et al	NA	Analysis of Hybrid Fusion-Neural Filter Approach to detect Brain Tumor	IEEE	Sixth International Conference on Parallel, Distributed and Grid Computing (PDGC)	International	2020	978-1-7281-7132-6	VMTW	IEEE	https://www.springer.com/series/15179
2	Mrs. P. Anusha et al	NA	Design and Implementation of Crosstalk Noise Avoidance in VLSI Circuits using Fibonacci Numeral Codes	NA	International Conference on Smart Modernistic in Electronics and Communication (ICSMEC-2020)	International	2020	NA	VMTW	Shodh Saritha	https://conferences.computer.org/icsme/#!/toc/0



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3	Dr. Samiran Chatterjee et al	NA	Design and Analysis of Defective Ground Structure Microstrip Antenna	NA	ESN International Conference on Multidisciplinary Research and Innovation (ICMRI-2020) jointly organized by ESN Publications-Chennai and Universal Digital University-USA	International	2020	978-81-945297-0-5 978-81-945297-1-2	VMTW	ESN Publications	NA
4	Dr. Samiran Chatterjee et al	NA	Design and Analysis of Size Deduced Square Printed Patch Antenna	NA	ESN International Conference on Multidisciplinary Research and Innovation (ICMRI-2020) jointly organized by ESN Publications-Chennai and Universal Digital University-USA	International	2020	978-81-945297-0-5 978-81-945297-1-3	VMTW	ESN Publications	NA



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5	Dr. Samiran Chatterjee et al	NA	Design of Miniaturized Dual Band Microstrip Antenna for Microwave Band Applications	NA	ESN International Conference on Multidisciplinary Research and Innovation (ICMRI-2020) jointly organized by ESN Publications-Chennai and Universal Digital University-USA	International	2020	978-81-945297-0-5 978-81-945297-1-4	VMTW	ESN Publications	NA
6	Dr. Samiran Chatterjee et al	NA	Design of Three Elements Stacked Array Antenna	NA	ESN International Conference on Multidisciplinary Research and Innovation (ICMRI-2020) jointly organized by ESN Publications-Chennai and Universal Digital University-USA	International	2020	978-81-945297-0-5 978-81-945297-1-5	VMTW	ESN Publications	NA



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7	Dr. Samiran Chatterjee et al	NA	Design of Two Element Ultra Wideband Microstrip Array Antenna	NA	ESN International Conference on Multidisciplinary Research and Innovation (ICMRI-2020) jointly organized by ESN Publications-Chennai and Universal Digital University-USA	International	2020	978-81-945297-0-5 978-81-945297-1-6	VMTW	ESN Publications	https://www.springer.com/series/11156
8	Mr P. Vinay bhushan et al	NA	Privacy-Preserving K-Nearest Neighbor Computation in Multiple Cloud Environments	NA	International Conference on Emerging Trends in Engineering, Management, Arts, Science and Technology (ICETEMAST 2020)	International	2020	NA	VMTW	IJAMSR	NA



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Analysis of Hybrid Fusion-Neural Filter Approach to detect Brain Tumor

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Abstract—Medical Image Processing plays an essential role in human health. Many methods have played an essential role in reducing physician decision-making in diagnosis. Much caution is required and recommended, especially in cases involving the brain. Separation of tumors from normal brain cells belongs to the category of brain tumors. The dissection process can help provide the information needed for diagnosis. This process is risky due to the unusual shapes and manipulations at the border. Determining these tumors at an early stage can help provide the best treatment for patients. Typically, physicians adopt a manual method of dividing patients into patients, which leads to more time. This paper presents a well-functioning Hybrid Fusion-Neural Filter Approach (HFNF) classification system that considers various factors such as accuracy, recovery and accuracy. MRI is one of the most traditional methods for the primary diagnostic tool for brain tumors. If the tumor is malignant for successful treatment, the necessary diagnostic and treatment planning measures must be taken quickly. Physicians can make accurate decisions by applying the following procedures. The necessary treatment can be done effectively. A computer-assisted diagnostic system, MRI, can help reduce the workload of physicians.

Keywords—Brain Tumor, Neural network, Convolutional NN, Classification,

I. INTRODUCTION

Brain tumor detection is still a very critical task in the medical field. Previously used Pneumoencephalography and had defects in cerebral angiography, using CT and MRI scan techniques to provide high-quality image processing results with surgeons' help. Therefore, a more accurate analysis is needed to correct brain tumors. In this paper, Matt Lab copies the next three steps of the process using tumor identification, morphological identification, processing and image processing. This subsequent processing creates a report that provides much less delay and effectively identifies the best brain tumors. Contains extensive calculations depending on the accuracy of medical imaging or processing analysis.

To accurately assess a tumor's presence in parts of the brain, do not take a 2D picture before removing the sound. The best algorithm for a high-quality image is looking for hybrid image welding. The classification process helps to identify, delimit and compress the object. The separation process helps to identify, identify and compress the object. In general, there are two methods. The classifier method uses an algorithm from the random forest. Our specific method is to extract less essence from pixel images. Training time decreases depending on the number of parameters. It includes the creation of data layers, closed layers and produce layers. In general, tumors are abnormal cells that spread throughout our bodies. However, in brain tumors, the pile of tissue in our brain cells expands quickly, and brain tumors are classified

according to the size of the primary and secondary sites and their origin [1].

Medical image processing is an area where more efficient calculation and accuracy are needed to make decisions. In general, empirical calculations involve complex geometric and algebraic problems and include growth estimates based on this revised figure. The only solution is to use experimental algorithms and geometric tools. The use of algebra is avoided as it exhibits ambiguity and intensity in the complex computational process. Although geometric algebra is a simple method with simple algebraic properties, counters using GA are easy to implement in object geometry. Segmentation and tumor detection, which creates a favorable environment for use in clinics [2, 3]. For effective modeling, useful algorithm tools are needed to create patterns according to the geometry of objects used in any computer graphic application. Relevant algebra offers many solutions to these problems because it allows us better to define the geometry of objects at a non-coordinated level. Acceleration is more critical than dimensional products. General representation in terms of calculations is free, and efficient and 3D shaped registration is explored. Shapes are curved surfaces. Depending on the elements' size, the new representation can be used to quadruple 4D Clifford algebra. It supports new-sized operations that speed up summations. Also, tumor size is determined by the size and diameter of the identified tumor area. This technique is excellent in splitting capacity and should not exceed computational time. When a tumor is detected, its symptoms are not evenly distributed over all the areas analyzed, making it less complicated. The neural gas algorithm solves this problem. In recent years, it has played an essential role in medical image processing analysis. More information around bone and soft tissue can be obtained in a single image by combining brain MRI and CT tumor images in this proposed work. Makes reasonable discretion for MRI and CT images. Fusion rules Fuse rotten images. Converts different wave methods and works on specific method wave based with best results using a specific quality matrix [4].

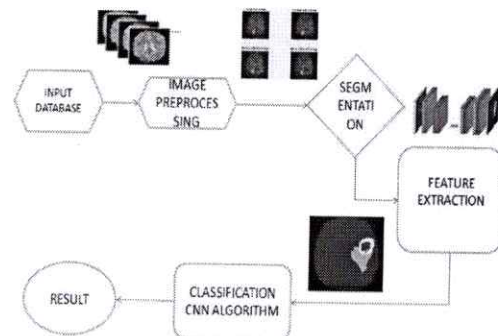


Figure -1: Brain Tumor Segmentation using Hybrid Fusion-Neural Filter(HFNF)

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Research Track

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Cloud Environments.**

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**Text Data Linkage of Different Entities Using OCCT-One Class
Clustering Tree.**

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**Mining and Monitoring Human Activity Patterns in Smart
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**Investigating Open Issues in Swarm Intelligence for Mitigating
Security Threats in MANET**

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1	Mrs. Narmada Alaparathi et al	NA	Performance comparison of CSMA, MACA, Generic MAC and Sensor MAC channel access protocols for ZigBee WSN with RIPv2 as Routing protocol	Innovations in Power and advanced Computing Technology-IEEE	Innovations in Power and Advanced Computing Technologies (i-PACT)	International	2019	978-1-5386-8190-9	VMTW	IEEE	https://ieeexplore.ieee.org/document/8960033?denied=
2	Dr. S. Ranga Swamy et al	INTERNET OF THINGS - A STUDY	NA	NA	NA	NA	2019	9780359563067	VMTW	Published in LULU Publications-USA	http://www.lulu.com/shop/dr-sasikumar-gurumorthy-and-ranga-swamy-sirisati-andponguwala-maitreyi/internet-of-things-a-study/paperback/product-24050253.html



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3	Mrs. Narmada Alaparathi et al	NA	Dynamic Source Routing Protocol-- A Comparative Analysis with AODV and DYMO in ZigBee based Wireless Personal Area Network	NA	2019 6th International Conference on Signal Processing and Integrated Networks (SPIN)	NA	2019	978-1-7281-1380-7	VMTW	IEEE	https://ieeexplore.ieee.org/document/8711689



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Performance comparison of CSMA, MACA, Generic MAC and Sensor MAC channel access protocols for ZigBee WSN with RIPv2 as Routing protocol

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Abstract: Monitoring and coordinating the remote physical conditions of an environment is found difficult in many user applications. A wireless sensor network can be one of the best solutions in this application. Sensors are inter-connected together in the form of a mesh network to form Wireless Sensor Network (WSN). Transmitter and receiver are embedded in a single sensor called a "NODE" in other words called a transceiver, which is a battery operated and microcontroller enabled intelligent device. Further the nodes can also be interconnected in different topologies viz., Star, Ring, Mesh, etc.

While many channel access protocols may be competent for using them in Wireless Sensor Networks, it is commonly found that IEEE 802.15.4 MAC (Medium Access Control) protocol is often used over IEEE standard 802.15.4 ZigBee protocol stack. As there are many other protocols reported in literature, it is felt necessary to revisit all the suitable protocols to find, if any, more efficient protocol for WSN exists. In this paper a study is carried out with CSMA, MACA and GENERIC MAC protocols for their suitability for WSN. The study is done by simulating these protocols in 802.15.4 ZigBee for different number of nodes from 15 to 30. The summary of the characteristics of all these protocols is presented. Qualnet 5.0.2 network simulator is employed to analyze the important characteristics like throughput, end-to-end delay, jitter, total packets received, etc., by varying the various parameters under low, medium and heavy loads.

Keywords: Adhoc networks, WSN, CBR, CSMA, MACA, Generic MAC, IEEE 802.15.4

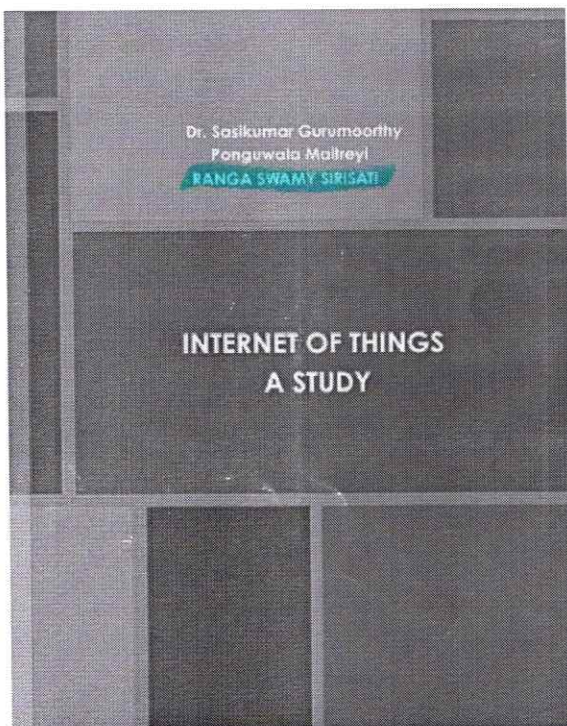
I. INTRODUCTION

Radio signal frequency is employed in WSN to setup a communication among the nodes, PDAs and other networks. The primary objective of Sensor Networks is to carry sensors data from remote locations to the data acquiring system installed at remote location. However WSN is considered as a low speed network. The operating modes of WSNs are mainly categorized into two types: (i) infrastructure mode and (ii) ad-hoc mode. In the infrastructure mode, the network devices such as computers are connected to each other by using a network-switch. In ad-hoc mode a self organizing network is formed by network nodes connected in peer-to-peer fashion. A host of channel access protocols that may be the candidate for use with WSN are MAC, CSMA, MACA and GENERIC MAC while WSN is implemented with sensor MAC. Sensor MAC employs hierarchical network architecture in which coordinator is used to start the network and coordinator is involved in every data transfer introducing lot of unnecessary delay, which can be reduced with appropriate protocol. This paper consists of nine sections apart



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Dynamic Source Routing Protocol –A Comparative analysis with AODV and DYMO in ZigBeebased Wireless Personal Area Network

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Abstract: The suitability of various applications with respect to wireless ad hoc networks and the corresponding scalability to such network extended to incorporate various other nodes is justified by ad-hoc networks with peer-to-peer nature. Different types of sensors are associated with each WSN node that is battery powered, operated and controlled by a microcontroller. Route to an intended destination is discovered only if the source node has a data packet to send in on-demand routing. Ad hoc On-Demand Distance Vector (AODV) routing protocol is extensively used as network layer protocol in Wireless Sensor Networks based on ZigBee (IEEE standard 802.15.4). The proposed application is aimed at a network with few number of WSN nodes suitable to a typical user home or private network forming Wireless Personal Area Network. The disadvantage of AODV is that it consumes more system resources and memory. Hence it is required to re investigate and find more appropriate protocol for the proposed application.

In order to find out the suitable protocol set for the proposed application, this paper describes and published about the methodology and results of experimentation in the network layer of IEEE standard 802.15.4 ZigBee protocol stack with different types of On-Demand Distance vector routing protocols viz., AODV, DYMO and DSR, while keeping the MAC layer protocol Sensor MAC (SMAC) unchanged. In this process, values of different types of performance metrics viz., Throughput, Average end-to-end delay, average jitter and total packets received are measured and compared using Qualnet network simulator version 5.0.2 by varying number of hops and network traffic loads other applicable parameters during experimentation.

Keywords: Ad hoc networks, WSN, CBR, DSR, AODV and DYMO.

I. INTRODUCTION

Wireless Sensor Network is a set of nodes interconnected with a radio signal to communicate with various other computing, network devices. A lot of research is in place to explore its suitability to different types of applications which are not limited to

surveillance, security, remote monitoring control etc [1-5]. The nodes are further connected using any one of the two modes viz, infrastructure mode and ad hoc mode in a wireless network. There is a specific methodology to be followed in infrastructure mode and it is usually applicable to wired networks as this methodology involves lot of infrastructural requirements. Peer-to-peer communication is very well exploited in ad hoc network so as to extract maximum efficiency out of the wireless network, which is usually battery powered, remotely monitored and controlled.

II. LITERATURE SURVEY

Lot of research is being taken up in the area of customization of ZigBee stack to incorporate IP functionalities but no not fruitful in finding a stack to suit the required user application so that different user appliances are operated and controlled by a single virtual personal area network. Numerous applications are possible in this area of research [10-20].

III. PROPOSED APPLICATION

This paper published the work carried in the network layer of customized ZigBee stack to suit a small user personal area network which also supports IP protocol stack. The proposed application aims at building up of a user personal area network (WPAN) using wireless sensor network that comprises of transceiver nodes [1] based on customized ZigBee stack[5-11] in-order to cater various communications requirements of the user personal Area Network with 15 to 25 nodes. Already existing on-demand routing protocols AODV, DYMO and DSR are chosen to understand the suitability to the proposed application. These protocols are compared with respect to different metrics of experimentation using qualnet network simulator 5.0.2

IV. ROUTING PROTOCOLS CLASSIFICATION



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1	Mrs Usha Rani et al	NA	A low power high efficient radio frequency clock generator for Bio -implants	NA	2nd International Conference on Electronics & Communication System (ICECS)	International	2017-18	NA	VMTW	NA	NA



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