Number of Book Chapter per teacher during the year 2020-2021

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	ISBN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher	Relevant link
1	Mr. G. Narendra	Global Emerging Innovation Summit (GEIS-2021)	Wearable Antennas-An Overview	proceedings of the international summit held on April 9th and 10th, 2021 ,Lovely Professional University (LPU) and supported by ENEA	Global Emerging Innovation Summit	International	978-1-68108-901-0	Vignan' s institute of Management and Technology For Women	Bentham Science	https://www.eurekaselect.com/chapter/15673
2	Dr. Samiran Chatterjee	Lecture Notes in Electrical Engineering 851	Printed Antenna for C-Band Communication	Proceedings of the 3rd International Conference on Communication, Devices and Computing ICCDC 2021	3rd International Conference on Communication, Devices and Computing	International	978-981-16-9154-6	Vignan' s institute of Management and Technology For Women	Springer, Singapore	https://content.e-bookshelf.de/media/reading/L-17729161-d86c70c0db.pdf

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3	Mr . A. Mallikarjun	Advances in Sustainability Science and Technology (ASST)	Investigation of Structural and Optical Properties of PMMA/PVdF-HFP Polymer Blend System	Proceedings of Fourth International Conference on Inventive Material Science Applications ICIMA 2021	Fourth International Conference on Inventive Material Science Applications ICIMA 2021	International	978-981-16-4321-7	Vignan' s institute of Management and Technology For Women	Springer, Singapore	https://link.springer.com/chapter/10.1007/978-981-16-4321-7_26
4	Dr. C. Srinivasa Kumar	Smart Innovation, Systems and Technologies (SIST, volume 224)- Smart Computing Techniques and Applications	Software defect prediction using optimized Cuckoo Search based Nature Inspired Technique	Proceedings of the Fourth International Conference on Smart Computing and Informatics, Volume 2	4th International Conference on Smart Computing and Informatics (SCI-2020)	International	978-981-16-1502-3	Vignan' s institute of Management and Technology For Women	Springer, Singapore	https://link.springer.com/chapter/10.1007/978-981-16-1502-3_19

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5	Dr. S. Ranga Swamy	Advances in Intelligent Systems and Computing (AISC, volume 1292)	Auto-adaptive Learning for Machine Perception of Native accent using Deep Learning	Proceedings of First International Conference on Mathematical Modeling and Computational Science ICMMCS 2020	First International Conference on Mathematical Modeming and Computational Science	International	978-981-33-4389-4	Vignan' s institute of Management and Technology For Women	Springer, Singapore	https://link.springer.com/chapter/10.1007/978-981-33-4389-4_58
6	Dr. S. Ranga Swamy	Lecture Notes in Networks and Systems (LNNS, volume 171)	An Energy-efficient PSO based Cloud Scheduling Strategy	Innovations in Computer Science and Engineering Proceedings of 8th ICICSE	Springer Proceedings-Lecture Notes in Networks and Systems	International	978-981-33-4543-0	Vignan' s institute of Management and Technology For Women	Springer, Singapore	https://link.springer.com/chapter/10.1007/978-981-33-4543-0_79
7	Mr.J.Sunil Kumar	Algorithms for Intelligent Systems (AIS)	Assessment on the Adequacy of dual current supply in CMOS dual Differential Amplifier	Proceedings of Integrated Intelligence Enable Networks and Computing IIENC 2020	1st International Virtual Conference on Integrated Intelligence Enable Networks and Computing	International	978-981-33-6307-6	Vignan' s institute of Management and Technology For Women	Springer, Singapore	https://link.springer.com/book/10.1007/978-981-33-6307-6

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8	Mr.J.Sunil Kumar	Algorithms for Intelligent Systems (AIS)	Design and implementation of High Speed and large bandwidth voltage follower using CMOS technology	Proceedings of Integrated Intelligence Enable Networks and Computing IIENC 2020	1st International Virtual Conference on Integrated Intelligence Enable Networks and Computing	International	978-981-33-6307-6	Vignan' s institute of Management and Technology For Women	Springer, Singapore	https://link.springer.com/chapter/10.1007/978-981-33-6307-6_88
9	Dr. S. Ranga Swamy	Algorithms for Intelligent Systems (AIS)	An aviation delay prediction and recommendation system using Machine Learning Techniques	Proceedings of Integrated Intelligence Enable Networks and Computing IIENC 2020	1st International Virtual Conference on Integrated Intelligence Enable Networks & Computing (IIENC-2020)	international	978-981-33-6307-6	Vignan' s institute of Management and Technology For Women	Springer, Singapore	https://link.springer.com/chapter/10.1007/978-981-33-6307-6_25
10	Mr. M. Vishnu vardhana rao	Algorithms for Intelligent Systems (AIS)	Structural Strength Monitoring System Practices using Machine Learning	Proceedings of Integrated Intelligence Enable Networks and Computing IIENC 2020	1st International Virtual Conference on Integrated Intelligence Enable Networks & Computing (IIENC-2020)	International	978-981-33-6307-6	Vignan' s institute of Management and Technology For Women	Springer, Singapore	https://link.springer.com/chapter/10.1007/978-981-33-6307-6_26

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CHAPTER 32

Wearable Antennas-An Overview

Narendra Gali[1,*] and **Narbada Prasad Gupta**[2]

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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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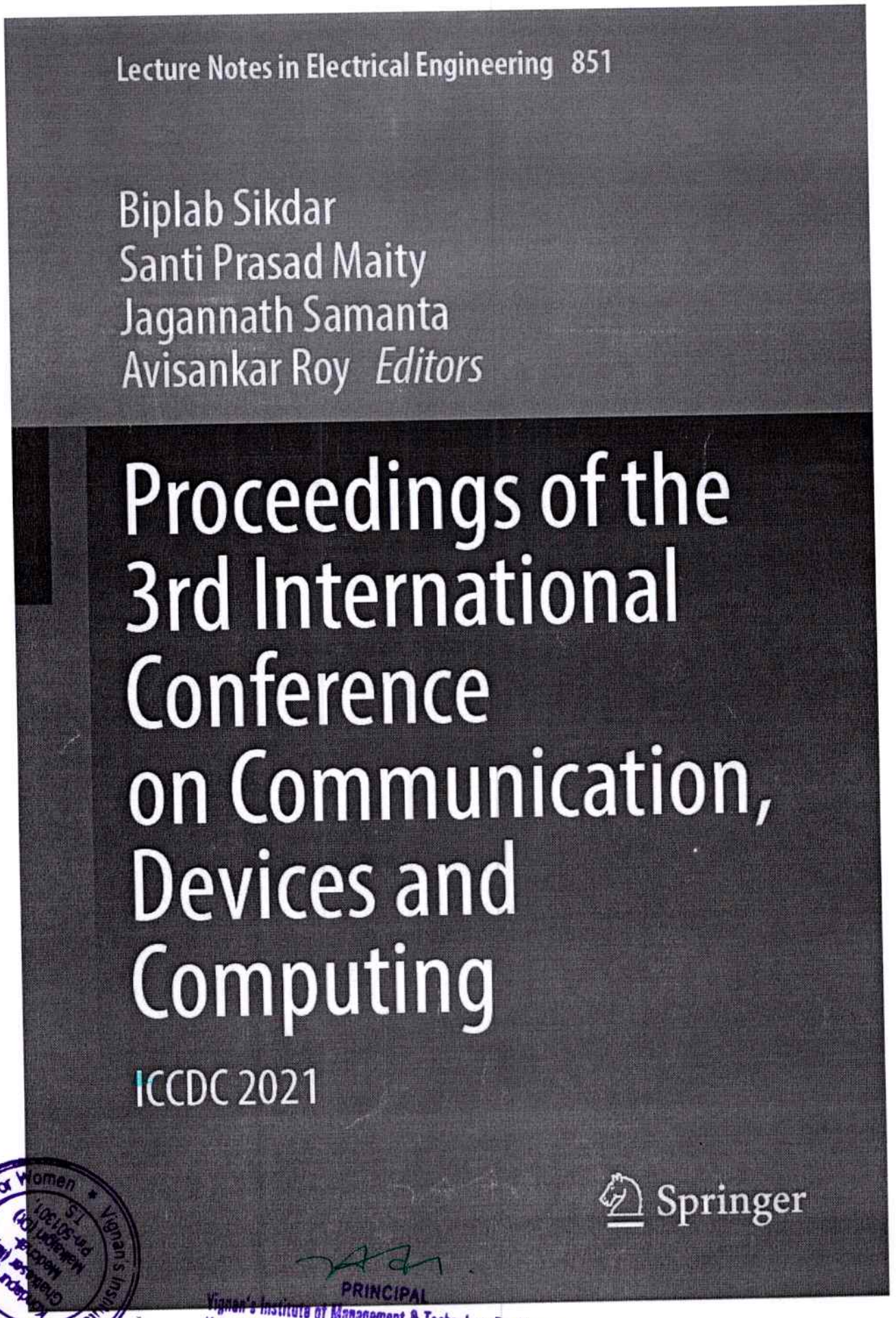

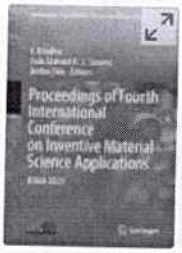

Proceedings of Fourth International Conference on Inventive Material Science Applications pp 295–306

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

Part of the Advances in Sustainability Science and Technology book series (ASST)

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 semicrystalline to amorphous phase. PMMA surface morphology reveals a rough surface. SEM

Smart Computing Techniques and Applications pp 183–192

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, th 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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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
First Online: 24 April 2021

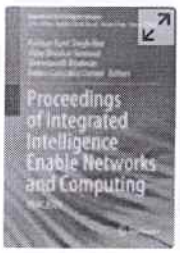
Part of the Lecture Notes in Networks and Systems book series (LNNS, volume 171)

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 Fuzzyness



Proceedings of Integrated Intelligence Enable Networks and Computing
pp 35–42

Assessment on the Adequacy of Dual Current Supply in CMOS Dual Differential Amplifier

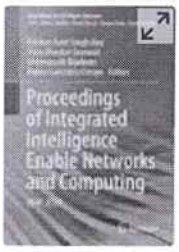
Venkateswarlu Mukku ✉ & J. Sunilkumar

Conference paper | First Online: 24 April 2021

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



Proceedings of Integrated Intelligence Enable Networks and Computing
pp 855–861

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/μs slew rate, and FOM figure of merit of 52(MHz × pF/μW) for load capacitance = 20 pf. By this proposed method, higher current and higher bandwidth than the standard voltage follower by

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 ant 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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