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

Sl. No.	Name of the teacher	Title of the book/chapters published	Title of the paper	Title of the proceedings of the conference	Year of publication	ISBN/ISSN number of the proceeding	Whether at the time of publication Affiliating Institution Was same Yes/NO	Name of the publisher
1	Dr.KSR.Radhika	Residue Analysis of Localization Images in Large Scale Solid State Physical Environments		AIP Conference Proceedings	2022	0094-243X	Yes	AIP Publications
2	Dr.KSR.Radhika	Smart development in the growth of plants using hydroponics and internet of Things		AIP Conference Proceedings	2022	0094-243X	Yes	AIP Publications
3	Dr. S. Narasimha	Next generation smart grids modeling,control& optimazation	Design& analysis of BLDC motor drive for hybrid electric vehicles	1st international conference on smart energy and advancement in power technology- ICSEAPT-2021	2022	978-981-16-7793-9	yes	SPRINGER
4	A.Theja, A.Vikas	RF Circuits for 5G Applications: A mm Wave Circuitry Design	FinFET Process Technology for RF and Millimeter Wave Applications	RF Circuits For 5G Applications	2022	189-222	Yes	Scrivener Publishing


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5	Dr. V Krishna	Database Management Systems			2022	978-93-94304-30-7	Yes	GCS Publishers
6	Dr. V Krishna	Artificial Intelligence			2022	978-93-95331-22-7	Yes	RK Publishers
7	Dr. Vicky Nair	Machine Learning			2022	978-93-5570-545-7	Yes	AkiNik Publications
8	DR. R. Muruganantham	NA	Modelling a voting based model for diabetes prediction using learning model	10th International conference on contemporary engineering and technology	2022	ISBN:978-93-81288-22-1	YES	SABANAYAGAM PUBLICATIONS
9	DR. R. Muruganantham	NA	Modelling a Novel Learning-based approach for COVID-19 Prediction	10th International conference on contemporary engineering and technology	2022	ISBN:978-93-81288-22-1	YES	SABANAYAGAM PUBLICATIONS
10	DR. R. Muruganantham	NA	A Xtreme Featured Based Boosting Model For Health Disease Prediction using feature Representation	10th International conference on contemporary engineering and technology	2022	ISBN:978-93-81288-22-1	YES	SABANAYAGAM PUBLICATIONS

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11	Dr.D.V. Ravi Shankar	Author Metadata Approval Sheet/Author Publication Agreement/Proof (Chapter-5)	Influence of milling process parameters on the surface quality of GFRP composites	Walter DE GRUYTER	2021	BCINDEXED	Yes	BCINDEXED
12	Dr. V Krishna	Computational Intelligence in Analytics and Information Systems, 2-volume set	The Working Analysis on Machine Learning Algorithms to Predict Diabetes and Breast Cancer		2021	978-1774911426	Yes	Apple Academic Press
13	Dr.S.A.Kalaiselvan	An Reliable Data Transfer in Underwater Sensor Networks	Current Topics on Mathematics and Computer Science		2021	978-93-91312-38-1	YES	B P International, UK
14	Dr. V Krishna	Big Data Analytics for Beginners			2021	978-81-952459-1-8	Yes	South Asian Academic Publishers
15	DR. M Narender	Preliminaries of Blockchain Technologies			2021	9789351381319	Yes	Laxmi Publications
16	DR. R. Muruganantham	Secured and Optimal Routing with QOS in MANETS	NA	NA	2021	ISBN:978-620-4-72809-4	YES	LAMBERT ACADEMIC PUBLISHING
17	DR. R. Muruganantham	Techniques to improve the Lifetime of Wireless Sensor Network	NA	NA	2021	ISBN:978-620-4-72810-0	YES	LAMBERT ACADEMIC PUBLISHING


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18	¹ Dr.R.Premudha , Ms. G.Chandana , Ms. V.Umamythili , ⁵ Mr.Akhil Kumar, ⁶ Mr. Burhan Ahmed, ⁷ Mr. Sivaprasad	NATIONAL CONFERENCE PROCEEDINGS	A Review On Smart And Eco Friendly Construction Materials,	Intelligent sensing Technologies for Civil Engineering Applications” ISTCEA 2020	2020	ISBN – 978-81- 945281-0-4	Yes	Euro Informatics - Coimbatore
19	¹ Dr.R.Premudha , Mr.G.Thirupathi, Mr. B.Shrinivas , Mr. B.Subhash Chandran,	NATIONAL CONFERENCE PROCEEDINGS	A STUDY ON SUSTAINABLE WASTE WATER TREATMENT USING IOT Application In Environmental Engineering	Intelligent sensing Technologies for Civil Engineering Applications” ISTCEA 2020	2020	ISBN – 978-81- 945281-0-4	Yes	Euro Informatics - Coimbatore


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20	Dr. A. Rajarajeswari,	INTERNATIONAL CONFERENCE PROCEEDINGS	"Flexural behavior of high strength concrete using mineral admixtures"	International Conference on "Construction Materials and Smart structures for Sustainable Development" by Vallurupalli Nageswara Rao Vignana Jyothi Institute of Engineering and Technology, 29th – 31st Jan 2020.	2020	NIL	Yes	VNR VJIET
21	Dr.D.V. Ravi Shankar	Recent trends in mechanical engineering	Compressive and impact behaviour of nanoscale hybrid composite materials	Springer (Book chapter)	2020	ISBN-978-981-15-7556-3	Yes	Springer link
22	Dr. V Krishna	Emerging Trends in Engineering Research and Technology Vol 6	REGION BASED MEDICAL IMAGE COMPRESSION WITH BINARY PLANE CODING		2020	978-93-90149-3-9	Yes	Book publisher International


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23	K.V.R. SATYA SAI, K. RAMESH, V. SAI VIKAS,		An Experimental Investigation of Strength and Permeability of Geopolymer Concrete	National Conference on Recent Advancements in Civil Engineering (NCRACE 2019)	2019	ISBN-9789353460327	Yes	SP Hi tech Printers Private Limited, Kavadiguda Hyderabad
24	A. Swetha		Comparative Study on Mechanical Properties of Recycled Aggregate Concrete and Normal Aggregate Concrete	National Conference on Recent Advancements in Civil Engineering (NCRACE 2019)	2019	ISBN-9789353460327	Yes	SP Hi tech Printers Private Limited, Kavadiguda Hyderabad
25	A. Swetha	PROCEEDINGS OF NATIONAL CONFERENCE ON "RECENT ADVANCEMENTS IN CIVIL ENGINEERING" (NCRACE-2K21	"STRENGTH PROPERTIES OF CONCRETE WITH BAGASSE ASH AND M-SAND	National Conference on Recent Advancements in Civil Engineering (NCRACE 2019)	2019	ISBN-9789353460327	Yes	SP Hi tech Printers Private Limited, Kavadiguda Hyderabad


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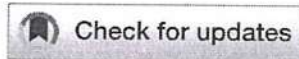
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26	S. SELVAKUMAR, A. ASHOKKUMAR	PROCEEDINGS OF NATIONAL CONFERENCE ON "RECENT ADVANCEMENTS IN CIVIL ENGINEERING" (NCRACE-2K22)	"STUDY ON MICROSTRUCTURE OF CONCRETE"	National Conference on Recent Advancements in Civil Engineering (NCRACE 2021)	2019	ISBN-9789353460327	Yes	SP Hi tech Printers Private Limited, Kavadiguda Hyderabad
27	S. SELVAKUMAR, A. ASHOKKUMAR	PROCEEDINGS OF NATIONAL CONFERENCE ON "RECENT ADVANCEMENTS IN CIVIL ENGINEERING" (NCRACE-2K23)	EXPERIMENTAL INVESTIGATIONS ON STRENGTH CHARACTERISTICS OF STEEL FIBRE CONCRETE"	National Conference on Recent Advancements in Civil Engineering (NCRACE 2022)	2019	ISBN-9789353460327	Yes	SP Hi tech Printers Private Limited, Kavadiguda Hyderabad
28	Sukanya K	Innovations in Electronics and Communication Engineering	Mesochronous Operation Interface to Multicore Processor	Mesochronous Operation Interface to Multicore Processor	2019	978-981-13-3765-9_32	YES	Springer
29	Dr. S. Narasimha	Electrical and Electronics Measurements and Instrumentation	Electrical and Electronics Measurements and Instrumentation	BS Publications	2018	978-93-5230-192-8	yes	BS Publications
30	DR. M Narender	Imbalanced Big Data Classification			2017	190816-120458	No	IGI Publishers

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RESEARCH ARTICLE | MAY 19 2022

Deepq: Residue analysis of localization images in large scale solid state physical environments

S. Manikandan ✉; K. S. R. Radhika; M. P. Thiruvenkatasuresh;
G. Sivakumar



+ Author & Article Information

AIP Conference Proceedings 2393, 020078 (2022)

<https://doi.org/10.1063/5.0074142>

Deep Learning is the process to led machine learning, natural language processing and neural networks. The various deep learning models, computer vision systems and artificial intelligence services are used to study of various real time applications. Due to lack of computing resource the conventional neural network are produces delay in progress and reduce the GPUs performance and throughput. In this paper we review difference deep learning approaches with increases GPUs performance and apply various image processing classification and localization techniques. The high availability and GPUs performance can be verified by state-of-arts results using conventional deep learning methods.

Topics

Image processing, Artificial intelligence, Artificial neural networks, Machine learning, Natural language processing, Learning and learning models, Review

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RESEARCH ARTICLE | MAY 19 2022


Smart development in the growth of plants using hydroponics and Internet of Things

K. Vijayan ; G. Shanthi; **K. S. R. Radhika**; L. Raja Check for updates

+ Author & Article Information

AIP Conference Proceedings 2393, 020093 (2022)<https://doi.org/10.1063/5.0074135>

With the total populace approaching 7.5 billion and worldwide success and the longing for more asset serious nourishments rising steeply too unmistakably cultivating necessities to turn out to be progressively profitable. Hydroponics soilless farming. Earthly plants have been developed only based on their foundations and type of minerals present in the earth, or the roots might be upheld by an inactive medium, for example, perlite or rock. To put it plainly, developing plants without soil, rather utilizing a supplement rich answer for convey water and minerals to their underlying foundations is Hydroponics. It's as of now being utilized to build cultivating yields and develop plants in living spaces that wouldn't typically continue them. Hydroponics is a technique for Controlled Environment Agriculture (CEA). Though productivity is increased by implementing Hydroponics, it takes time and man power to constantly monitor a Hydroponic setup. Technological advancements in the field of Embedded Systems and the Internet of Things (IoT) has led to the introduction of techniques and methodologies to automate and remotely monitor an Hydroponic setup. Conventional farming has many drawbacks like pest or rodent infestation, easy transmission of diseases which considerably affects crop yield. In regular horticulture, soil bolsters a plant's underlying foundations helping it to stay upstanding and furnishes it with the supplements it needs to develop. In hydroponics, plants are misleadingly upheld, and an answer of ionic mixes gives



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supplements. This encourages an expanded take-up of supplements by plants and furthermore lessens water consumption by up to 60%.

Topics

Information technology, Perlite, Mammals

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Lecture Notes in Electrical Engineering 824

Surender Reddy Salkuti
Papia Ray *Editors*

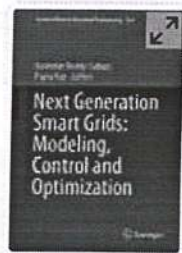
Next Generation Smart Grids: Modeling, Control and Optimization



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Next Generation Smart Grids: Modeling, Control and Optimization

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About this book

This book is a collection of chapters describing the advanced and future aspects of smart grid technology. The book emphasizes technical issues, theoretical background and practical applications that drive postgraduates, researchers and practicing engineers with the right advanced skills, vision and knowledge who will further be capable of leading in teams involved in the modelling, control, design, and optimization of the future smart grids. This feature strengthens the benefits of the book for the readers who will gain an insightful understanding of future smart grid challenges including: (i) the formulation of decision-making models, (ii) the familiarization with efficient solution algorithms for such models and (iii) insights into these problems through the detailed analysis of numerous illustrative examples. Further the chapters in this book provide comprehensive coverage of modelling, control and optimization of smart grid


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which are quite different from most technical publications.

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Keywords

Smart Grids **Electric Vehicles**

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Machine Learning

Energy Management System

Smart Grid Protection

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Surender Reddy Salkuti received Ph.D. degree in electrical engineering from Indian Institute of Technology, New Delhi, India, in 2013. He was a Postdoctoral Researcher at Howard University, Washington, DC, USA, from 2013 to 2014. He is currently working as an Associate Professor in the Department of Railroad and Electrical Engineering, Woosong University, Daejeon, Republic of Korea. His current research interests include power system restructuring issues, ancillary service pricing, real & reactive power pricing, congestion management, and market clearing, including renewable energy sources, demand response, smart grid development with integration of wind and solar photovoltaic energy sources, battery storage and electric vehicles, artificial intelligence applications in power systems, and power system analysis and optimization. He received Distinguished Researcher Award from Woosong University Educational Foundation, Republic of Korea in 2016, and POSOCO Power System Award (PPSA), India in 2013. He is a Member of the IEEE and IEEE Power and Energy Society.

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Engineering, Veer Surendra Sai University of Technology, Burla, Odisha and is having more than 17 years of teaching experience. Her current research interests include power system protection, power quality, wide-area measurement systems, artificial intelligence applications in power system protection and microgrid protection. She is the recipient of the Young Scientist Award from DST in 2015. She has published numerous papers in various journals and conferences and is also an active reviewer for several reputed journals. She is a senior member of IEEE, Life member of Indian Society for Technical Education and Member of Institution of Engineer's India Ltd. Recently She has edited a book on "Microgrid: Operation, Control, Monitoring and Protection" published by Springer.

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RF Circuits For 5G Applications: Designing with mmWave Circuitry

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RF CIRCUITS FOR 5G APPLICATIONS

This book addresses FinFET-based analog IC designing for fifth generation (5G) communication networks and highlights the latest advances, problems, and challenges while presenting the latest research results in the field of mmwave integrated circuits designing.

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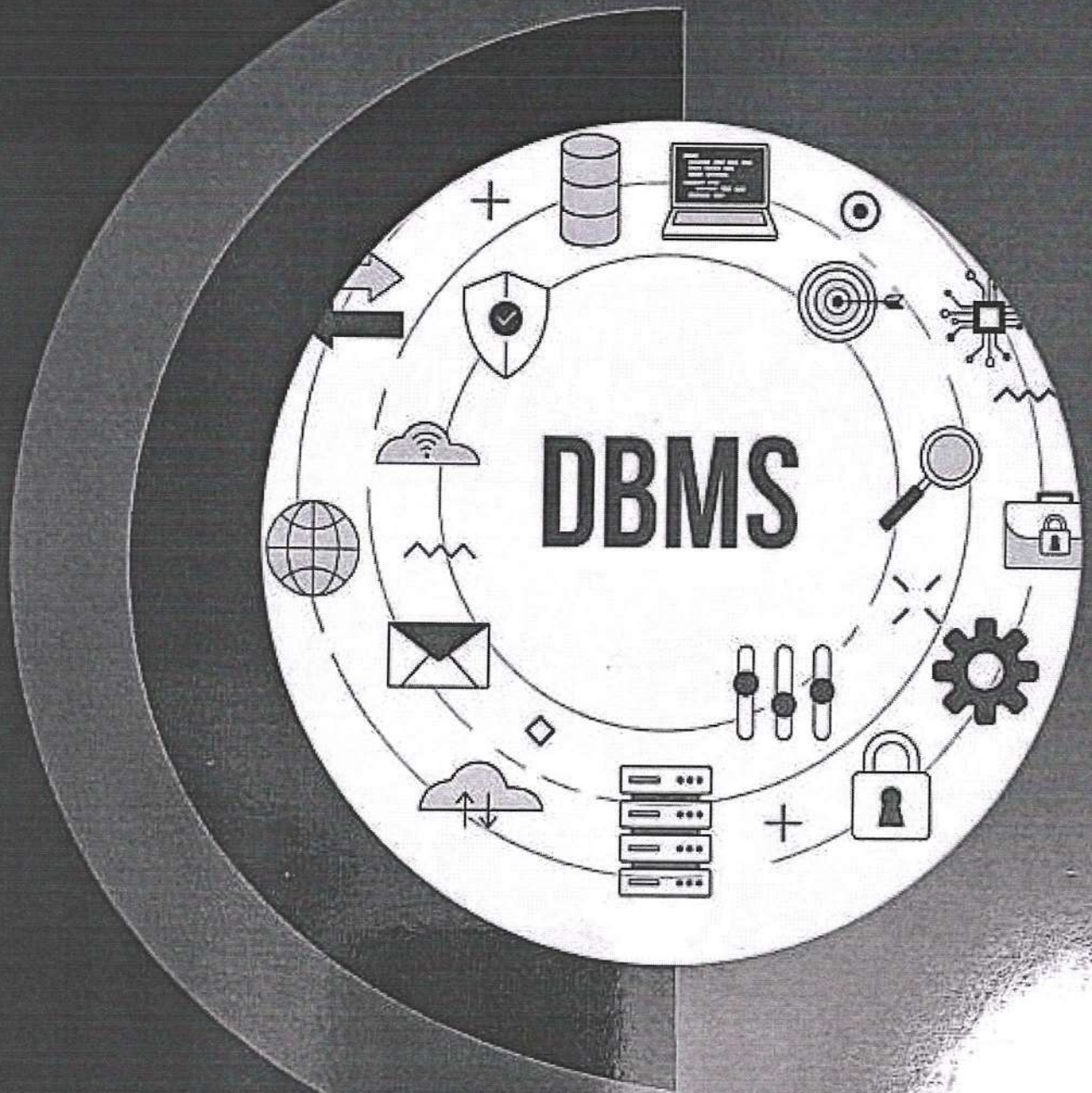
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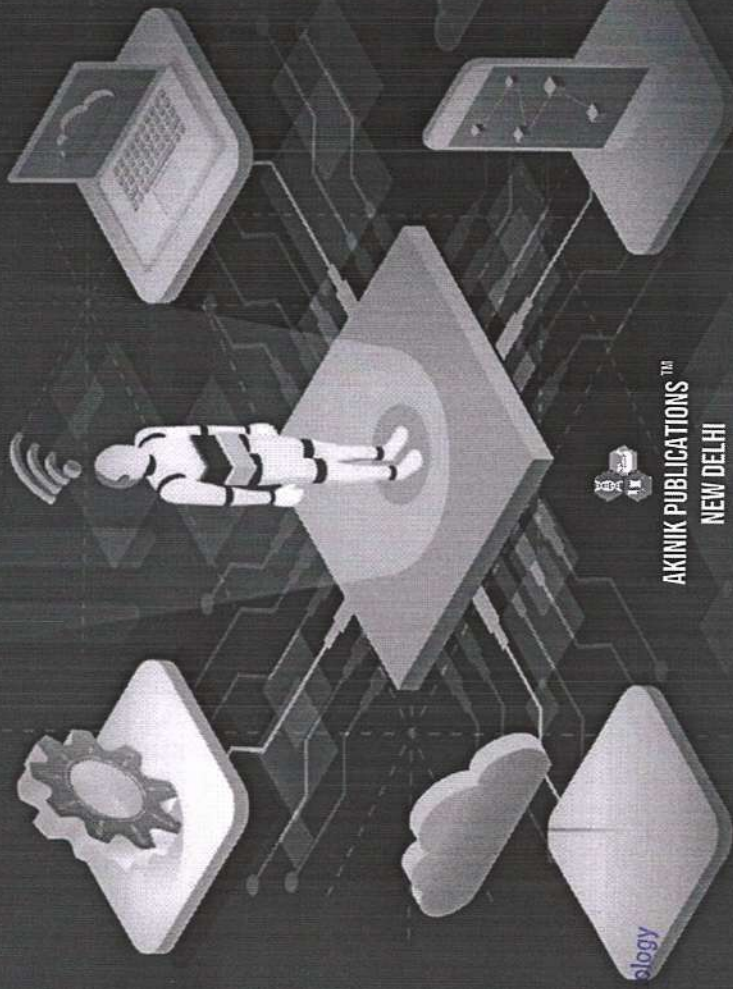
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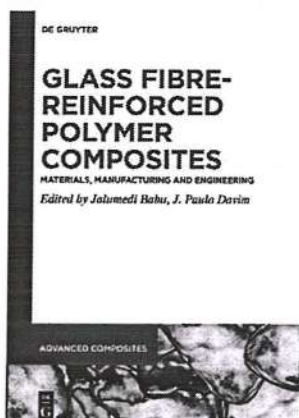
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Volume 12 in the series Advanced Composites









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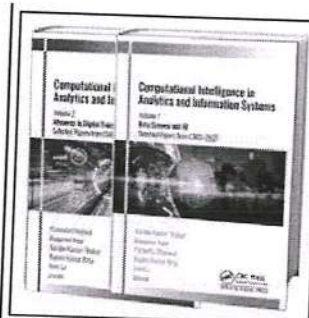
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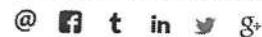
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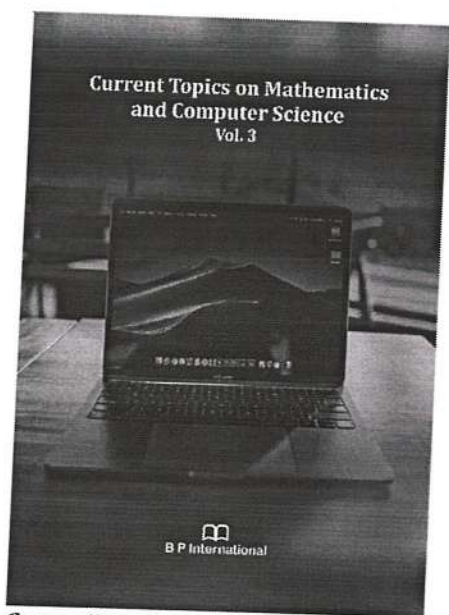
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S. A. Kalaiselvan; Rajasekar Rangasamy ; P. Manikandan

Current Topics on Mathematics and Computer Science Vol. 3, 29 June 2021, Page 13-21

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Abstract


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Drastic growth of sensor network technology paves way to the socio economic applications in all aspects. Similarly introduction of new sensor for various parameters increases the scope for data collection and manipulation for useful inferences. In order to exploit largest unutilized resources vested with the ocean environment, the necessity arises for the researchers to find out the sensor network suitable for the monitoring of fish movements and to decide on the probable area for data communication in underwater. Main objective of the paper is to monitor and analyze the fish movement and behaviour in the underwater sensor networks by introducing the new algorithm called AFISH [ARTIFICIAL FISH] algorithm, which will study the movement and behaviour of fish in the water with certain parameters. The behaviour is observed with certain under water sensors placed along the Length, breadth and depth of earmarked area and with the help of data fusion the information is observed and manipulated to understand the data communication area and optimum time for the same [1]. The simulation results show that the proposed AFISH algorithm for fish movement monitoring works effectively under certain presumed conditions.

Keywords: Underwater communication; fish movement study; acoustic signal; data communication

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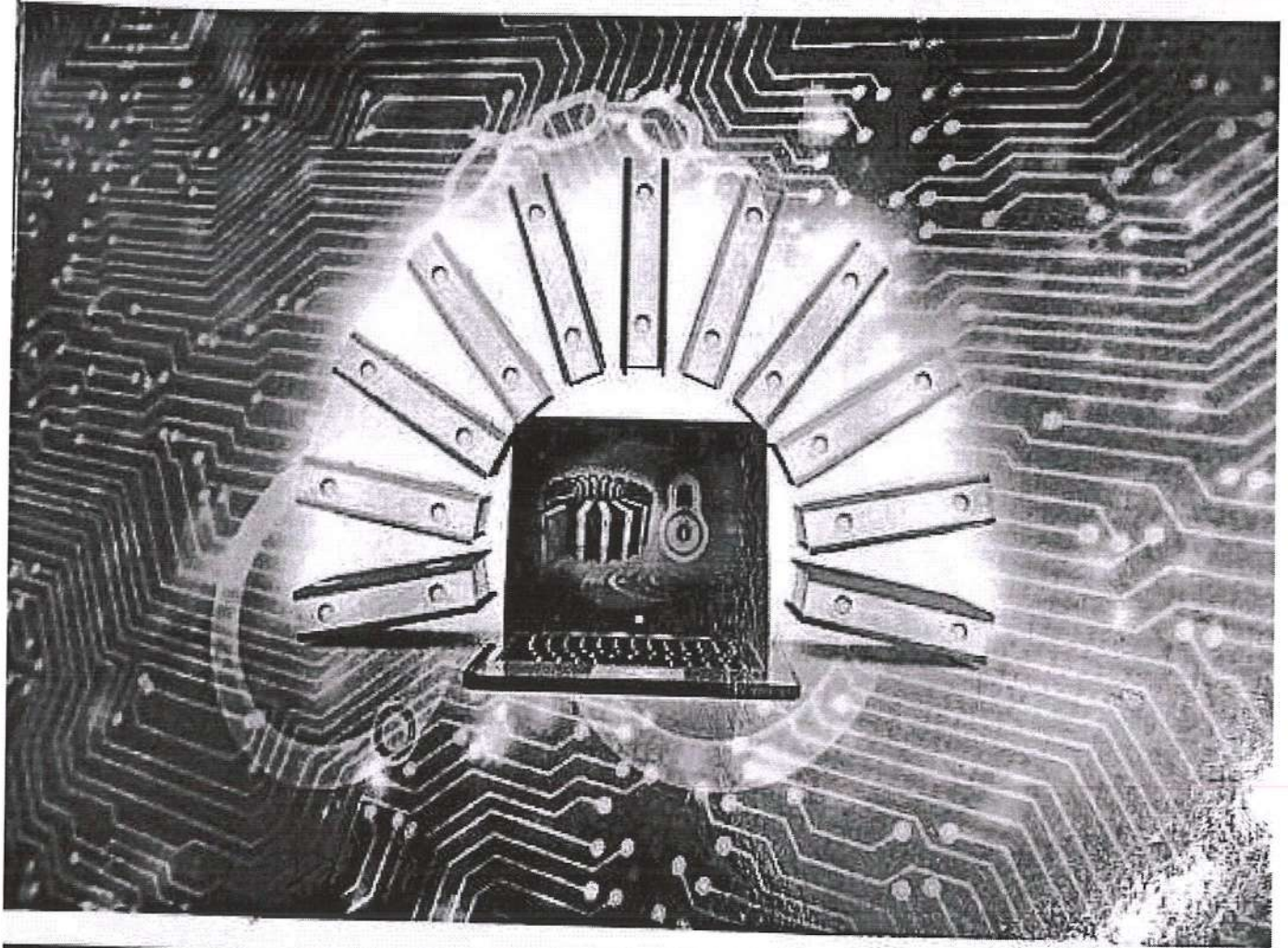


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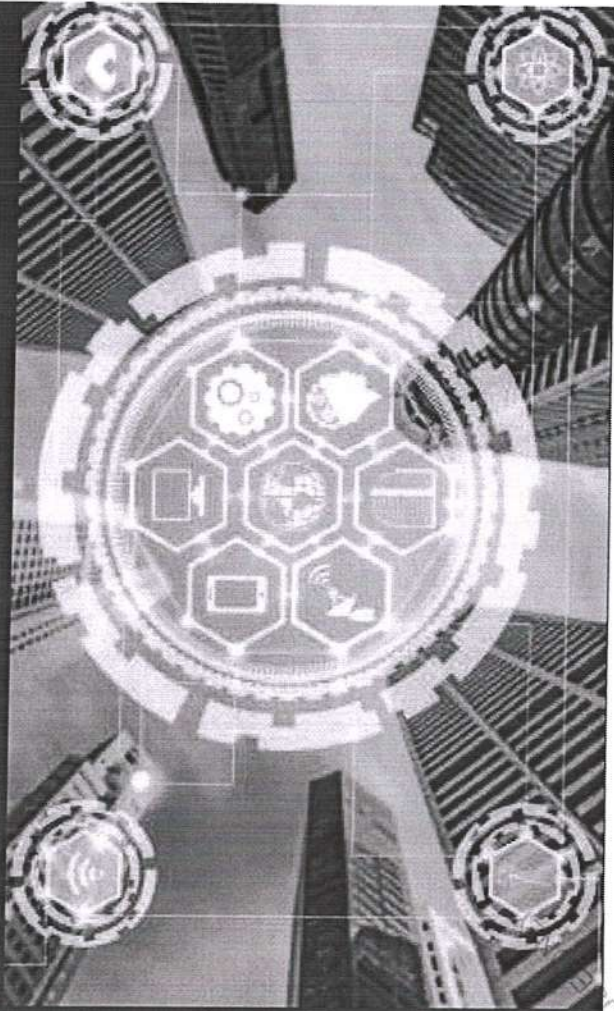
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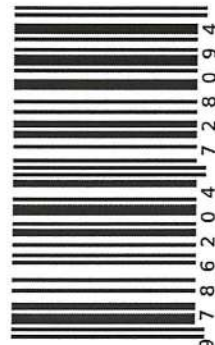

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A MANET is a self forming wireless network of mobile devices. Generally, the behaviour of MANET and their emerging applications are highly dynamic and not depending on any existing infrastructures. Nodes in MANET are moving in nature, their nature and mobility speed influence the behaviour of the nodes as well as network. The secure routing is a major task for the transferring the packets between the number of nodes to achieve the successful and secured data transmission in MANET. Quality of Service based Trusted Routing Protocol (QoSTRP) has been introduced to provide an optimal trusted routing with security. This technique enhances the security by employing random key sharing method. This improvement is obtained only by choosing trusted nodes, constructing trusted route and trusted data packet transmission. Hence this QoSTRP is a better approach to provide a trust management based routing in MANET. The primary aim of this book is to provide the concept of QoS based secured trusted routing protocol.

SECURED AND OPTIMAL ROUTING WITH QOS IN



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SECURED AND OPTIMAL ROUTING WITH QOS IN MANETS

Development of Secured & Optimal Routing With
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SECURED AND OPTIMAL ROUTING WITH QOS IN MANETS

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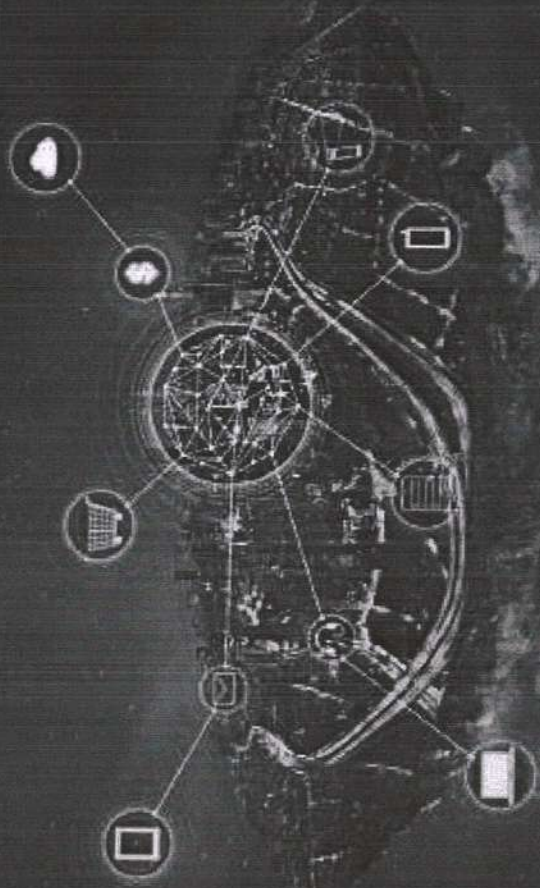
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The performance of WSN has been increased by the effective deployment of sensor nodes, which may be done by covering each point in a region by employing at least one sensor node. So, there is a need to find a method to cover maximum area with the deployment of minimum number of sensor nodes. The lifetime of a network has been improved by adopting various traditional methods and the optimization methods like genetic algorithm, memetic algorithm, Schedule Transition Operations with Genetic Algorithm, Kuhn-Munkres Parallel Genetic Algorithm. This book presents the impact of implementing the optimization techniques like Ant Colony Optimization, Intelligent Water Drop and Flower Pollination Algorithms. The network lifetime due to the POI coverage is calculated by employing ACO, IWD and FPA. The result obtained confirms that the FPA algorithm prolong the network lifetime than ACO and IWD.



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Rajamanickam Muruganantham
Rajendran Nagarajan
Rajagopal Raja

Techniques to improve the Lifetime of Wireless Sensor Network

Novel Technique to Improve the Lifetime of WSN


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TECHNIQUES TO IMPROVE THE LIFETIME OF WIRELESS SENSOR NETWORK

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2	Assessment of Hussainsagar Lake Water Quality and Treatment Process of Triveni Groups in Hyderabad, Telegana, India	Dr. R Premsudha	International Journal of Applied Engineering Research	2018	3	SCREENSHOT CE-01 2018-2020
3	Biogas production comparison of vegetable waste and fruit waste from Coimbatore city market, codigested with water hyacinth	Dr. Premsudha Rangasamy,	International Journal of Civil Engineering and Technology (IJCIET)	2018	3	SCREENSHOT CE-01 2018-2021

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FLEXURAL BEHAVIOR OF HIGH STRENGTH CONCRETE USING MINERAL ADMIXTURES

Dr. A. Rajarajeswari¹, Sankara Lokeswari², Arati Parida³, B. Anusha⁴

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Abstract:

This paper reports the use of alternative substitute material for cement in order to reduce the environmental hazards like greenhouse effect global warming etc., to minimize the CO₂ emission into the atmosphere and also to use the byproduct materials such as fly ash (FA) and ground granulated blast furnace slag (GGBS) has been used as substitute material in the concrete industry. This paper is to study the flexural strength Characteristics of GGBS and metakaolin (MK) used in high strength concrete along with replacement of fine aggregate with bottom ash. The results clearly indicate that replacement of Cement with GGBFS (20%) with bottom ash (60%) and MK (20%) with bottom ash (45%) gives the optimum strength with permissible deflection when compared with the conventional concrete.

Key words: fly ash, ground granulated blast furnace slag, metakaolin.

Introduction:

The Usage of Concrete is one of the major ingredients in the construction world. Cement industries are the principal producer of the greenhouse gases into the atmosphere. In this aspect utilization of by product and waste materials such as fly ash, ground granulated blast furnace slag, metakaolin, silica fume as a supplementary cementitious material along with cement to lift the mechanical properties of concrete. This can be used as an optimum approach to construction practices, also the productive usage of these waste materials also been considered as a safe method of disposal with the reduction in the initial cost. By this approach there is a considerable reduction in the carbon footprint into the atmosphere there by reduces the usage of OPCCs which are constantly observe to be less durable in some of the very severe environmental and climatic conditions Therefore it is necessary to develop an alternative concrete materials to carry the extensive research done by the research investigators for the potential of supplementary materials as a prospective construction material. The advancement of alternative concretes is of great importance to India, where the construction industry is in a boom and large quantities of industrial wastes are being generated by the allied industries.

Literature Review:

The flexural strength of GGBS along with steel fiber was increased about 40% of ultimate load when compared with the control beam. The failure of the beam is purely due to flexure. Partial replacement of cement with GGBS reduces the environmental pollution (1). The characteristic strength of concrete has increased upto 40% replacement of GGBS (2). The good strength in flexural behavior clearly shows that 50% replacement of GGBS leads to lesser the crack formation and ultimate load carrying capacity was found to be high (3). The M40 grade of Flexural beam of GGBS along with glass fiber gives high flexural strength when compared with conventional concrete and also it shows high load carrying capacity as the first crack load also increases when compared with conventional concrete of same grade (4). The characteristic strength of concrete has increased for M40 grade of concrete with 40% slag sand and 40% GGBS replacement of mineral admixture. All the beams are designed as under reinforced section. The beams fail by flexure only. The flexural crack has been propagated from tension zone to compression zone with crushing of concrete at the surface. It was observed that no horizontal cracks at the level of reinforcement. The flexural result shows that cracking moment has increased up to 23.38% for 0.72% reinforcement and 34.90% for 1.03% reinforcement. The crack width was observed as 0.2081 mm and 0.176 mm. these widths are within the permissible limits (5). The flexural behavior of high performance rectangular beams with 10% metakaolin and 10% silica fume and fine aggregate by 20% bottom ash gives 60% increase in load carrying capacity of beams when compared with control beam (6). An experimental investigation has been carried out on 7-RC beam to investigate the behavior of reinforced concrete beams with 10% of Nano-Metakaolin in flexural to study effect of utilizing Nano-Metakaolin, effect of flexural reinforcement (7). Mineral based composites are being used. The results focused are ultimate load, maximum deflection and crack pattern of control, flexure deficient, shear deficient and preloaded retrofitted beams. From the result, concluded that the load carrying capacity is enhanced in retrofitted beams. In retrofitted shear deficient beams brittle type of shear failure mode is shifted to ductile flexure failure with the development of



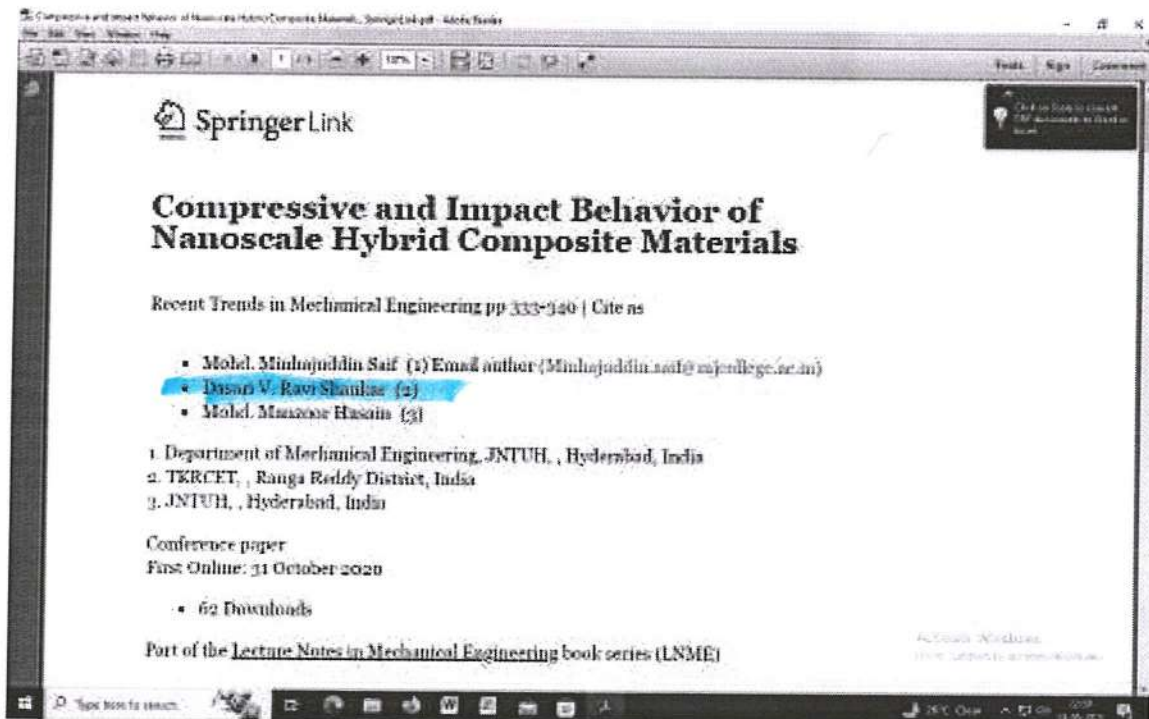
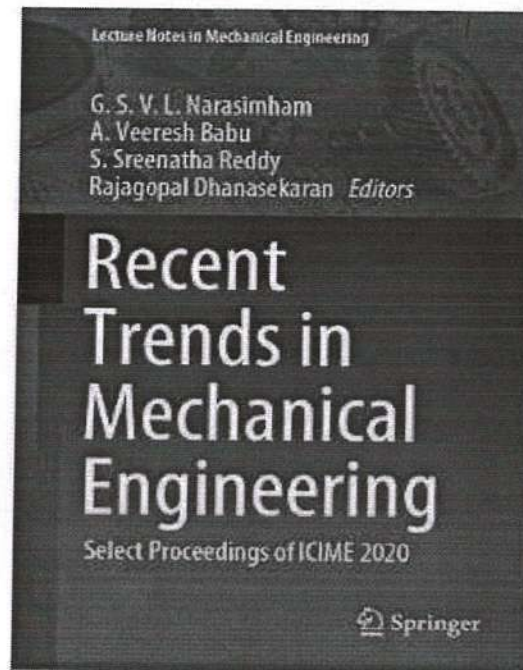
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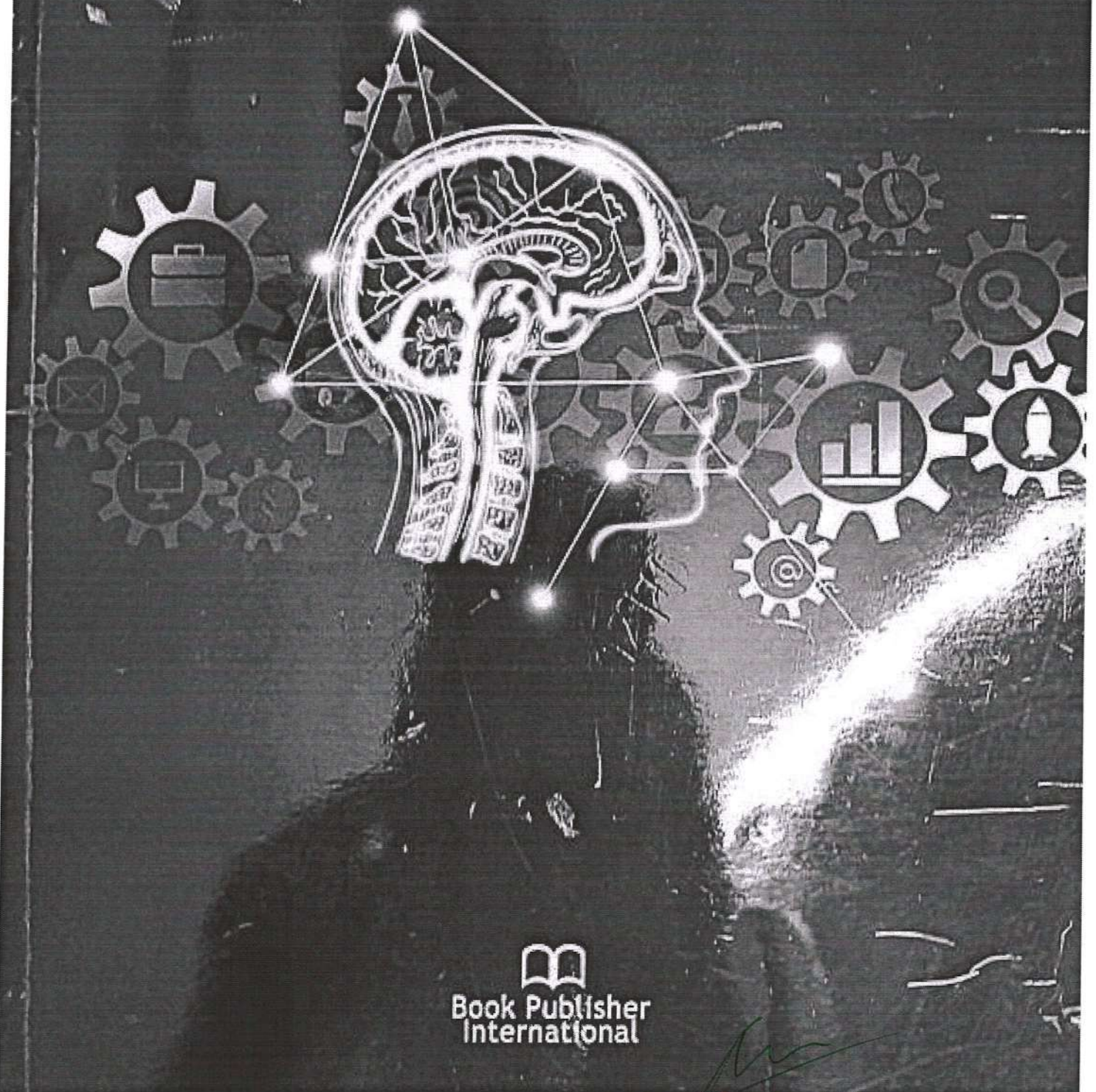
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Region based Medical Image Compression with Binary Plane Coding: An Overview

Vempati Krishna^{1*} and V. Purnachandar Rao¹

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ABSTRACT

Image compression methods which are capable of delivering high reconstruction quality are of great demand in research. Analysis of medical images is very important and crucial in diagnosis. However in medical images, only a portion of it is useful for diagnosis so there is the need to implement region based compression method for these images. This paper proposes one such region based algorithm with only a single approach which can be applied in both lossy and lossless modes. Experiments were conducted on MR brain images and the results were showing improvement with respect to traditional approaches.

Keywords: ROI image compression; MR brain image; skull stripping; binary plane difference coding.

1. INTRODUCTION.


Medical imaging devices produce a large amount of data like in computed tomography (CT), magnetic resonance imaging (MRI) and positron emission tomography (PET). This heavy data is stored in picture archiving and communication system (PACS) and using Hospital information system (HIS) which requires storage of about 5-15GB per day [1], storing of this huge data becomes more complex over a period of time. Image compression finds a useful solution for such cases which not only reduces the size but also provides a faster transmission if at any image has to be transmitted over the network. It was assumed that if the image is compressed by 8:1 compression without degrading its perceptual quality then it can increase eight times of its storage capacity [2].

Compression methods are broadly classified as lossy and lossless but in medical image processing employing a lossy scheme with 10% compression ratio is not desirable since it may lose some important clinical information that may lead to wrong diagnosis. So employing a compression technique for such medical images require three main constraints (i) High lossless compression ratio, (ii) Resolution scalability (represents the ability to decode the compressed image at various resolutions) (iii) Quality Scalability (refers to the ability to decode the compressed image at various qualities or SNRs) [3].

Digital imaging and communications in medicine (DICOM) is the most accepted version of an medical imaging standard, this format apart from the image details it also includes the patient details, so to compress such a DICOM image file special attention has to be given for preserving the header information [4]. Region based compression method are very much useful for this scenario where a part of the image which is treated as region of interest is compressed in lossless mode and the rest which is termed as non region of interest is compressed in lossy mode.

So far many researchers who have focused their research in this area have implemented this with two different compression mechanisms/ methods which make the system computationally complex. So in order to overcome this complexity, in this paper a hybrid approach is provided to apply the

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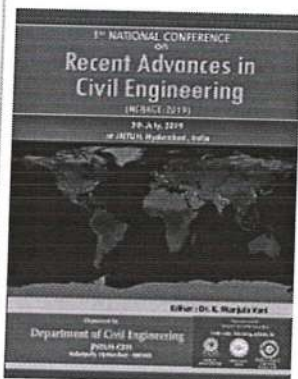
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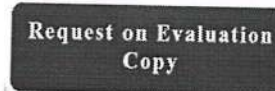
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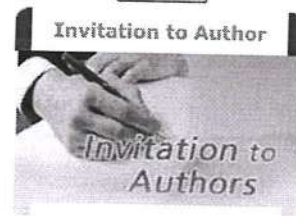
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Mesochronous Operation Interface to Multicore Processor



K. Sukanya and G. Laxminarayana

Abstract Synchronize processing is a major challenge in multicore processor units. In the designing of multicore processor, as the processing unit work simultaneously, the synchronization of data, instruction and the delay encountered is to be minimized. In the effort for providing synchronous operation, delay synchronization is the main criterion. The delay encountered in bus switching, data fetching, instruction/data allocation, and resource allocation delay is a major concern. In the minimization of delay constraint in resource allocation, the mesochronous operation is suggested. In this work, an interface to mesochronous operation for multicore processor operation is proposed. The presented approach defines the delay application in multiprocessor application with delay synchronization.

Keywords Mesochronous operation · Multicore processor interface · Delay synchronization

1 Introduction

The ever-demanding service compatibility, service rate, and better performance have led to the development of new technologies, new communication mode, and new processing architectures. The evolution in VLSI technologies has resulted in the integration of large distributed processing unit under a signal on chip modelling, where large distributed units are embedded onto a single chip level. This has given the advantage of higher density architecture integrated over a small platform, result-

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