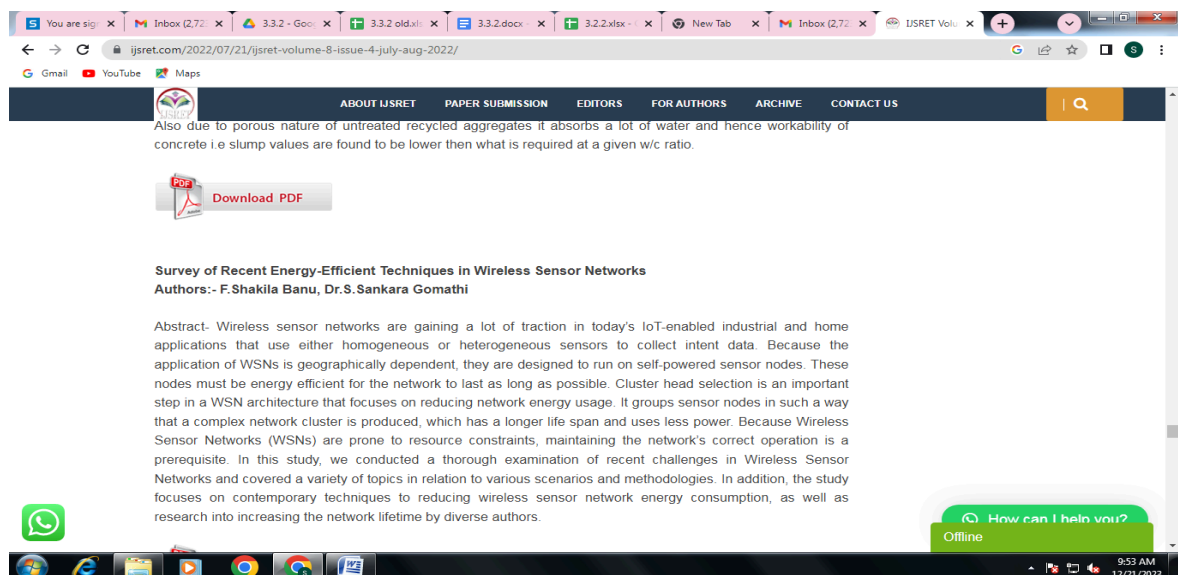


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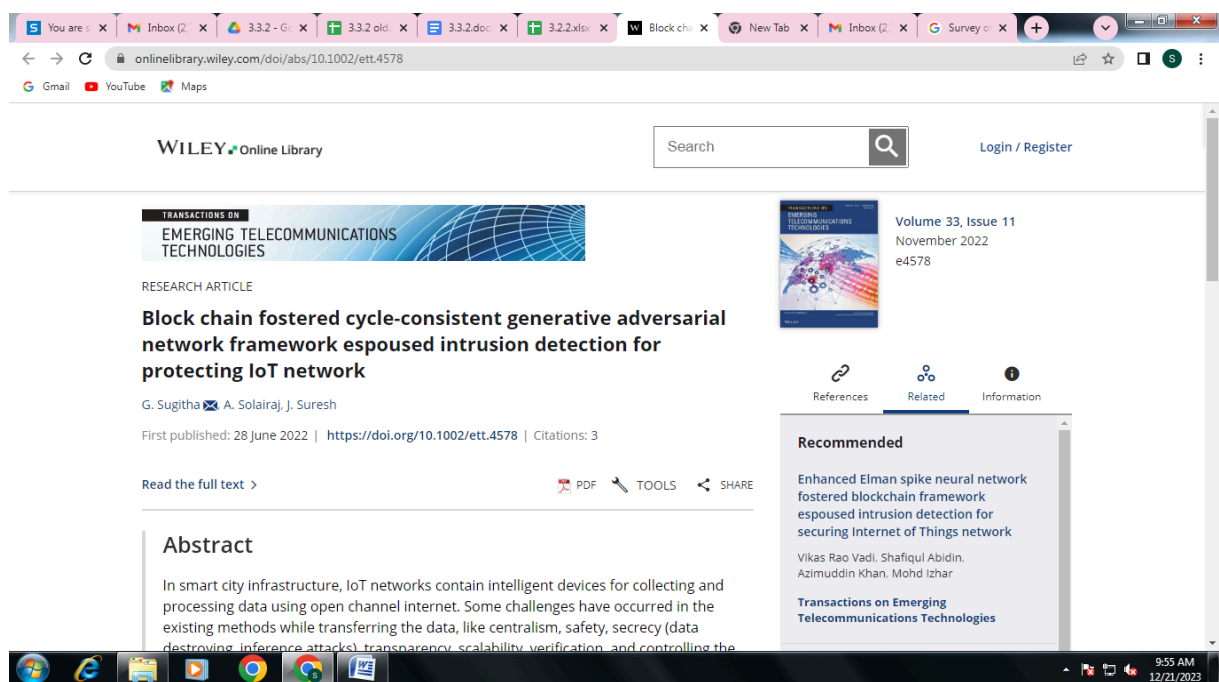


Also due to porous nature of untreated recycled aggregates it absorbs a lot of water and hence workability of concrete i.e slump values are found to be lower than what is required at a given w/c ratio.

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 Authors:- F. Shakila Banu, Dr. S. Sankara Gomathi

Abstract- Wireless sensor networks are gaining a lot of traction in today's IoT-enabled industrial and home applications that use either homogeneous or heterogeneous sensors to collect intent data. Because the application of WSNs is geographically dependent, they are designed to run on self-powered sensor nodes. These nodes must be energy efficient for the network to last as long as possible. Cluster head selection is an important step in a WSN architecture that focuses on reducing network energy usage. It groups sensor nodes in such a way that a complex network cluster is produced, which has a longer life span and uses less power. Because Wireless Sensor Networks (WSNs) are prone to resource constraints, maintaining the network's correct operation is a prerequisite. In this study, we conducted a thorough examination of recent challenges in Wireless Sensor Networks and covered a variety of topics in relation to various scenarios and methodologies. In addition, the study focuses on contemporary techniques to reducing wireless sensor network energy consumption, as well as research into increasing the network lifetime by diverse authors.



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Authors: M.Shiva Shankari, Dr.J.Jeyarani, R.Vanitha, R.Deepalakshmi

Keywords: Artificial Intelligence, IOT, Cayenne, Facial recognition, fingerprint authentication, pic microcontroller

Abstract: The term "Internet of Things" (IoT) refers to the idea of remotely interacting with and keeping track of physical items

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Green Power Control In Full Duplex Underlay/Overlay Cognitive Radio Networks

Ms.R.Elavarasi
Department of Electronics and Communication Engineering, CARE College of Engineering

Ms. S.Dhivya
Department of Electronics and Communication Engineering, CARE College of Engineering

Abstract—
Recently, Full Duplex communications have attracted many resources as one of the techniques for improving spectrum utilization along with Cognitiveradio technology. In full duplex technique, spectrum sensing and data simultaneously. Hence, the deviation of data transmission is increased and thereby the throughput gets increased.
A new eco-friendly Green power control algorithm for the underlay full-duplex cognitive radio networks (CRN) to reduce the emission of Carbon-di-oxide. The full-duplex CRN improve the spectrum efficiency and network capacity. In cognitive radio networks there are two types of spectrum sharing between primary and secondary users. The resourcesharing techniques are 1. Overlay spectrum 2. Underlayspectrum. In overlay spectrum the chances for collision between primary

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CARE College of Engineering, Tiruchirappalli, Tamilnadu, India.
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CARE College of Engineering, Trichy, Tamil Nadu, India.
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J. Jeyarani¹, R. Deepalakshmi², R. Vanitha³, M. Shivashankari⁴, S. Shanthi⁵
 Section: Research Paper, Product Type: Journal
 Vol.10, Issue.3, pp.1-6, Jun-2022
 Online published on Jun 30, 2022

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R. Deepalakshmi
J.Jeyarani
R.Vanitha
M.Shivashankari

Keywords: Free space optical communication (FSO), Quadrature amplitude modulation (QAM), Wavelength division multiplexing (WDM)

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Article Title: A Comparative Study on Ex-Situ & In-Situ Formed Metal Matrix Composites

Journal: Arch. Metall. Mater. 68 (2023), 1, 171-185

DOI: <https://doi.org/10.24425/amm.2023.141491>

Authors: B. GOBALAKRISHNAN^{1*}, C. RAJARAVI², GOBIKRISHNAN UDHAYAKUMAR³, P.R. LAKSHMINARAYANAN⁴

Abstract:

An attempt has been made to synthesize the aluminium based ex-situ (Al-SiC) and in-situ (Al-TiB₂) formed metal matrix composites with varying weight percentage of reinforcement contents such as 4wt.%, 6wt.% and 8wt.%. Synthesized composites were subjected to a cold extrusion process followed by heat treatment according to the ASTM B 918-01 standards. The mechanical properties of in-situ composites were evaluated as per the ASTM guidelines and compared with ex-situ formed composites and base metal properties. Superior properties were noticed in the in-situ formed composites and the mechanical properties such as yield strength, Ultimate tensile strength (UTS) and Hardness for both ex-situ and in-situ composites were found to increase with increasing the reinforcement addition. Cold extruded Al-8 wt.% SiC composite properties such as hardness, yield strength and UTS are 87 Rp, 152 MPa, 216 MPa respectively. Whereas, for Al-8 wt.% TiB₂ composite, the corresponding properties are 94 Rp, 192 MPa, 293 MPa. The morphology of the composites is analysed by Optical and Scanning Electron Microscopic (SEM) whereas presence of reinforcement particles such as SiC and TiB₂ along with intermetallic phases Mg₂Si and Al₃FeSi are confirmed by EDX, XRD and Element Mapping analyses.

Keywords: MMCs; Al-SiC; Al-TiB₂; Extrusion; Heat treatment; Mechanical properties; Microstructure

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Article Title: Effect of crack and vibration of waste tyre rubber hybrid composite for energy absorption applications

Authors: M Sermaraj¹, K Ramanathan, D R Rajkumar, and M S Alphin² [View all authors and affiliations](#)

Volume 39, Issue 3 | <https://doi.org/10.1177/14777606231152508>

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Abstract:

Composites reinforced with landfill waste materials have find the applications in engineering materials and they can lead to reduce the environmental pollutions. Waste tyre rubber, broken ceramic tiles and wood particles are creating the environmental hazard to the surroundings. In particular, the recycling of used tyre rubber is highly challenging, but it has very good property to absorb the energy. The reinforcement of rubber as single filler in composite has the limitations in processing and applications. Hence, the above waste materials are incorporated to prepare the composite in the present work. The fracture toughness and

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Influence of TIG welding processing parameters on mechanical properties of austenitic stainless steel using Taguchi analysis

C. Rajaravi ^a, B. Ganesh ^b, S. Lakshmanan ^b, B. Gobalakrishnan ^c

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PAPER

Surface roughness and microstructure analysis on drilling of titanium diboride *in-situ* aluminium metal matrix composite

C Rajaravi¹, U Elaiyarsan², B Gobalakrishnan³ and R Ganapathy Srinivasan⁴

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A STUDY ON HRM PRACTICES IN SMALL AND MEDIUM ENTERPRISE

Dr. Suvarna S¹, Dr. Manochandar S², Dr. S. Jyothirmaye Reddy³, Dr. Arti Chudamanrao Lokhande⁴,
Dr. Shailesh Kediya⁵, Dr. Archana Rathore⁶

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3. Associate Professor, Faculty of Management Studies, Marwadi University, Morris Road, Rajkot - 360003 (Gujarat)
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5. Associate Professor, Department of Management Studies, G H Raisoni College of Engineering, Nagpur
6. Associate Professor, ICAI Business School, The ICAI University Jaipur- 302031

Abstract

Small scale industries play a vital role in economic development. The Government looks to this sector for alleviating the problems of poverty, rural unemployment, attainment of reliance, reduction in disparities in income and regional imbalances, because of its shorter gestation period, adaptability to semi urban and rural environment where infrastructure is undeveloped and capacity to attract small savings and divert instrument in the development of backward and rural areas. More importance is attached to this sector since more employment can be created per unit of investment at a comparatively shorter period than the medium & large scale sector. Retaining essential workers is

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SLEEPING HABITS AMONG SCHOOL CHILDREN AND THEIR EFFECTS ON SLEEP PATTERN

Dr Ayaz Ahmad, Dr.S.Manochandar, Aashish.A.Gadgil, Dr. V. Vidya Chellam, Dr.S.Praveenkumar, M. K. Mariam Bee

DOI: <https://doi.org/10.47750/pnr.2022.13.508.192>

ABSTRACT

Children's mental and physical development are directly influenced by the amount of sleep they get, making it very necessary for them to get enough

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A STUDY ON STUDENTS ONLINE BUYING BEHAVIOR INFLUENCED BY FACEBOOK ADVERTISING WITH SPECIAL REFERENCE TO COLLEGES

Dr.S.Manochandar, Dr S Barathi, Dr. Ibadat Khan, Kuldeep Janardan Mhatre, Dr.Jaywant R. Bhadane, Dr. Abhishek Sharma

DOI: <https://doi.org/10.47750/pnr.2022.13.S08.197>

ABSTRACT

Worldwide advertising expenditures have been on the rise. When it comes

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Joint modulation format recognition and optical performance monitoring for efficient fiber-optic communication links using ensemble deep transfer learning

Sindhumitha, Kulandaivel; Jeyachitra, Ramasamy Kandasamy; Manochandar, Subramaniam

We propose an ensemble deep transfer learning (EDTL) method, which is a more refined multilayer feature extraction achieved by aggregating the convolutional layers of pretrained convolutional neural network models for joint optical modulation format recognition (MFR) and optical performance monitoring (OPM) in fiber-optic communication links. Modulation formats, such as quadrature phase shift keying, 16 quadrature amplitude modulation (QAM), and 64 QAM, are monitored for the optical signal-to-noise ratio (OSNR) range of 20 to 30 dB by considering the dispersive effects of chromatic dispersion from 0 to 1200 ps / nm and polarization mode dispersion from 10 to 70 ps in the fiber-optic transmission path. First, the generated constellation diagrams affected by the impairments are used to optimize

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OPTIMIZED CONTROLLER BASED VOLTAGE QUALITY ASSESSMENT IN GRID CONNECTED HYBRID MICROGRID

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ABSTRACT

Growing distributed generation based on renewable energy sources pushed for the improvement of power quality. The variable nature of interconnected renewable energy sources such as wind and solar generators, which are reliant on weather and climate change, has an impact on the power quality of micro grids. Power quality assessment involves a number of metrics; including voltage quality, voltage imbalance, sag score, and current score (current THD). Good power quality assessment reduces the energy losses in a power system resulting in high profitability. In this research; voltage quality assessment in hybrid microgrid using a novel krill herd optimization (NKHO) technique is described. Use of NKHO in voltage quality assessment for hybrid microgrid offers a novel and efficient means of optimizing the control and

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