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3.4.5. Bibliometrics of the publications during the last five years based on average Citation index in Scopus/ Web of Science (5)

S.No	Description	Page no.
1	Bibliometrics of the publications during the year 2022	2-60
2	Bibliometrics of the publications during the year 2021	61-135
3	Bibliometrics of the publications during the year 2020	136-230

P. A. Rao
Principal
Chaitanya Bharathi Institute of Technology
(Autonomous)
Gandipet, Hyderabad-500 075.

Scopus

Documents

Harish, B., Dakshinamurthy, N.R., Sridhar, M., Rao, K.J.

A study on mechanical properties of high strength concrete with alccofine as partial replacement of cement
(2022) *Materials Today: Proceedings*, 52, pp. 1201-1210. Cited 3 times.

2-s2.0-85127441951

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Mupparisetty, V.K.R., Mohammed, F.A.

Crushed stone dust as a replacement for river sand in self compacting repair mortars - A sustainable solution
(2022) *Materials Today: Proceedings*, 52, pp. 1168-1174. Cited 1 time.

2-s2.0-85127374028

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Gunda, P., Anthugari, V.

Optimization of location of outrigger system in tall buildings of different aspect ratios

(2022) *Materials Today: Proceedings*, 52, pp. 588-598. Cited 1 time.

2-s2.0-85127407967

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Kusuma, Y., Rashmi, T., Anand, V.N., Balaji, N.C.

An experimental study on flexural performance of RC beams strengthened by NSM technique using GFRP strips for a resilient infrastructure system

(2022) *Materials Today: Proceedings*, 52, pp. 1959-1967. Cited 1 time.

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Sushma Chinta, V., Ravinder Reddy, P., Eshwar Prasad, K.

Experimental investigation of high cycle fatigue life of jute fibre reinforced hybrid composite material for axial flow fan blades

(2022) *Materials Today: Proceedings*, 59, pp. 357-367. Cited 1 time.

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Praveen, H.M., Sabareesh, G.R., Inturi, V., Jaikanth, A.

Component level signal segmentation method for multi-component fault detection in a wind turbine gearbox
(2022) *Measurement: Journal of the International Measurement Confederation*, 195, art. no. 111180, . Cited 2 times.

2-s2.0-85129432555

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Publication Stage: Final

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Vamsi, I., Hemanth, M.P., Kumar Penumakala, P., Sabareesh, G.R.

Damage monitoring of pultruded GFRP composites using wavelet transform of vibration signals

(2022) *Measurement: Journal of the International Measurement Confederation*, 195, art. no. 111177, . Cited 2 times.

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Kandula, J., Usha Sri, P., Ravinder Reddy, P., Gugulothu, S.K.

Numerical and experimental evaluation of near-wake cavitation flow around axisymmetric cavitators
(2022) *Ships and Offshore Structures*, 17 (5), pp. 1042-1052. Cited 1 time.

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Pichika, S.V.V.S.N., Yadav, R., Geetha Rajasekharan, S., Praveen, H.M., Inturi, V.

Optimal sensor placement for identifying multi-component failures in a wind turbine gearbox using integrated condition monitoring scheme

(2022) *Applied Acoustics*, 187, art. no. 108505, . Cited 5 times.

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Optimal sensor placement for identifying multi-component failures in a win...

Optimal sensor placement for identifying multi-component failures in a wind turbine gearbox using integrated condition monitoring scheme

By: Pichika, S. V. V. S. Narayana (Pichika, S. V. V. S. Narayana) ; Yadav, Ruchir (Yadav, Ruchir) ; Rajasekharan, Sabareesh Geetha (Rajasekharan, Sabareesh Geetha) ; Praveen, Hemanth Mithun (Praveen, Hemanth Mithun) ; Inturi, Vamsi (Inturi, Vamsi)

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APPLIED ACOUSTICS

Volume: 187

Article Number: 108505

DOI: 10.1016/j.apacoust.2021.108505

Published: FEB 2022

Early Access: NOV 2021

Indexed: 2021-12-18

Document Type: Article

Abstract

Wind turbine gearbox has a high failure frequency and downtime, and therefore, several sensors are installed to perform condition monitoring to reduce the operation and maintenance costs. A gearbox can have infinite sensor nodal positions, but, in reality, the positioning of sensors is limited to a finite number of locations. Also, sensor location influences the quality of the data captured by the sensors, which is of key importance in a condition monitoring system. Hence selection of optimal sensor place -ment (OSP) is a challenging task which needs to be addressed. When the sensor type changes, the mea -surement response changes, and hence the OSP methodologies based on the measured responses may not work well. For addressing this, an optimization method based on statistical features is proposed to find the optimum sensor placement (OSP). In order to evaluate the effectiveness of the proposed method, experiments are conducted on a laboratory scale model of wind turbine gearbox considering multi-component faults and an integrated condition monitoring scheme. Variational mode decomposition and the Spearman correlation coefficient are used to processes raw acoustic and vibration signals. Feature

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Documents

Vemula, A.M., Chandra Mohan Reddy, G., Manzoor Hussain, M., Kumar, A., Kumar, N., Allasi, H.L.

Post-Surface Processing and Virtual Simulation Analysis of Ball-Punch Test on CP-Ti Material
(2022) *Advances in Materials Science and Engineering*, 2022, art. no. 5625427, . Cited 1 time.

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Post-Surface Processing and Virtual Simulation Analysis of Ball-Punch Test ...

Post-Surface Processing and Virtual Simulation Analysis of Ball-Punch Test on CP-Ti Material

By: Vemula, Ananda Mohan (Vemula, Ananda Mohan) ; Reddy, G. Chandra Mohan (Reddy, G. Chandra Mohan) ; Hussain, M. Manzoor (Hussain, M. Manzoor) ; Kumar, Atul (Kumar, Atul) ; Kumar, Naresh (Kumar, Naresh) ; Allasi, Haïter Lenin (Allasi, Haïter Lenin)

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ADVANCES IN MATERIALS SCIENCE AND ENGINEERING

Volume: 2022

Article Number: 5625427

DOI: 10.1155/2022/5625427

Published: MAR 11 2022

Indexed: 2022-04-17

Document Type: Article

Abstract

The titanium alloy is one of the prime materials for many engineering applications. It has been recommended for the components in automotive engines, power sector, biomedical industries, and more applications. It is due to the unique properties of the material with good strength and corrosion resistance. However, it is very challenging to handle Ti-based materials in manufacturing sectors without damaging the metallurgical quality. Thus, an attempt made to study the deformability of the CP-Ti material through ball-punch test to represent the stress, strain, and formability limit during mechanical loading and plastic deformation. The experiments are conducted following the ASTM E643 standards to study the material behavior. The maximum cupping reached to a height of 8.69 mm and got teared at the peak of doom. The separation has induced grain detachment due to tensile loading. The same condition is used to simulate with PAM STAMP (TM) software and 8.48 mm is the maximum cupping height achieved. The different is 0.21 mm. The results are interesting with similar observations and found acceptable to study the deformation.

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Chinta, V.S., Ravinder Reddy, P., Prasad, K.E.

The effect of stacking sequence on the tensile properties of jute fibre reinforced hybrid composite material for axial flow fan blades: An experimental and finite element investigation
(2022) *Materials Today: Proceedings*, 59, pp. 747-755. Cited 1 time.

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Damage monitoring of pultruded GFRP composites using wavelet transfor...

Damage monitoring of pultruded GFRP composites using wavelet transform of vibration signals

By: Vamsi, Inturi (Vamsi, Inturi) ; Hemanth, M. P. (Hemanth, M. P.)
; Penumakala, Pavan Kumar (Penumakala, Pavan Kumar)
; Sabareesh, G. R. (Sabareesh, G. R.)

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MEASUREMENT

Volume: 195

Article Number: 111177

DOI: 10.1016/j.measurement.2022.111177

Published: MAY 31 2022

Indexed: 2022-06-02

Document Type: Article

Abstract

A statistical procedure is presented for monitoring the damage of pultruded specimens using vibration data. Pultruded composite samples are processed by using continuous glass fiber rovings and epoxy matrix. Two different types of damages, a notch in the top layer and a hole at the midsection has been introduced individually in these samples. Vibration signals from healthy and damaged samples are processed using wavelet transform. various time-frequency domain statistical features have been extracted. Also, the time-domain features have been computed from the raw amplitude data. Further, both these features have been exploited to construct the feature space and significant features have been identified by evaluating the contribution rates. Finally, significant feature set is channeled as input to various machine-learning classifiers (deep neural network and support vector machine) and different classification accuracies have been estimated. The capability of these methods to early detect the damage in pultruded composites has been discussed.

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A Robust Fractional-Order PID Controller Based Load Frequency Control Using Modified Hunger Games Search Optimizer

Fathy, Ahmed^a  ; Yousri, Dalia^b  ; Rezk, Hegazy^{c, d}  ;

Thanikanti, Sudhakar Babu^e  ; Hasanien, Hany M.^f 

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^a Electrical Engineering Department, Faculty of Engineering, Jouf University, Sakaka, 42421, Saudi Arabia

^b Department of Electrical Engineering, Faculty of Engineering, Fayoum University, Fayoum, 63514, Egypt

^c College of Engineering at Wadi Addawaser, Prince Sattam Bin Abdulaziz University, Al-Kharj, 11942, Saudi Arabia

^d Electrical Engineering Department, Faculty of Engineering, Minia University, Minia, 61519, Egypt

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Patel, Aadyasha^a  ; Swathika, O. V. Gnana^a  ;

Subramaniam, Umashankar^{b, c}  ; Babu, T. Sudhakar^d  ;

Tripathi, Alok^e  ; Nag, Samriddha^a  ; Karthick, Alagar^f  ;

Muhibbullah M.^f 

 Save all to author list

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^b Department of Communications and Networks, Renewable Energy Laboratory, College of Engineering, Prince Sultan University, Riyadh, 11586, Saudi Arabia

^c Department of Energy and Environmental Engineering, Saveetha School of Engineering, Saveetha Institute of Medical and Technical Sciences, Saveetha University, Saveetha Nagar, Thandalam, Tamilnadu, Chennai, 602105, India

^d Department of Electrical and Electronics Engineering, Chaitanya Bharathi Institute of Technology (CBIT), Hyderabad, 500075, India

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Charge Scheduling Optimization of Plug-In Electric Vehicle in a PV Powered Grid-Connected Charging Station Based on Day-Ahead Solar Energy Forecasting in Australia

Sheik Mohammed S.^a  ; Titus, Femin^b  ;

Thanikanti, Sudhakar Babu^c  ; Sulaiman S.M.^d  ;

Deb, Sanchari^e  ; Kumar, Nallapaneni Manoj^f 

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^a Electrical and Electronic Engineering Programme Area, Faculty of Engineering, Universiti Teknologi Brunei, Bandar Seri Begawan, BE1410, Brunei Darussalam

^b Department of Electrical and Electronics Engineering, TKM College of Engineering, Kerala, Kollam, 691005, India

^c Department of Electrical and Electronics Engineering, Chaitanya Bharathi Institute of Technology, Telangana, Hyderabad, 500075, India

^d Department of Computer Science and Engineering, Kalasalingam Academy of Research and Education, Tamil Nādu, Srivilliputhur, 626128, India

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 - Feb 2022 in Wireless Personal Communications

Design of Uplink and Downlink Triple Band π : Slot Antennas for Simultaneous Communication

Published in [Wireless Personal Communications](#) on February 05, 2022

AUTHORS

Rajeshwar Goud Jangampally; Venkata Koteswara Rao Nalam; Mallikarjun...

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☐ 1	A novel triple band MIMO antenna array for simultaneous communications <i>Open Access</i>	Rajeshwar Goud, J., Koteswara Rao, N.V., Prasad, A.M.	2021	Progress In Electromagnetics Research M 102, pp. 159-169	0

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- Abstract
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 - 2021 in Progress In Electromagnetics Research M

A NOVEL TRIPLE BAND MIMO ANTENNA ARRAY FOR SIMULTANEOUS COMMUNICATIONS

Published in [Progress In Electromagnetics Research M](#) in 2021

ABSTRACT

A novel and compact triple band two element Multiple Input Multiple Output (MIMO) antenna array is designed to provide simultaneous communications for uplink and downlink which covers GSM, LTE and sub-6 base station applications. The proposed MIMO system is a configuration of four hybrid

AUTHORS

Jangampally Rajeshwar Goud; Nalam Venkata Koteswara Rao; Avala Mani

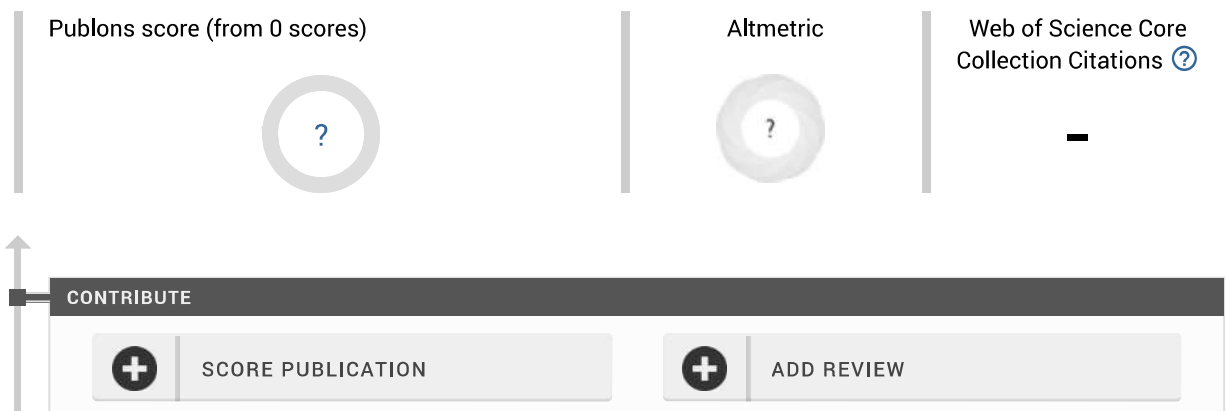
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Ramana Reddy, B., Indiramma, M.

Efficient Throttled load balancing algorithm to improve the response time and processing time in data center
(2022) *Concurrency and Computation: Practice and Experience*, 34 (23), art. no. e7208, .

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(2022) *Mobile Information Systems*, 2022, art. no. 8960132, .

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(2022) *Complexity*, 2022, art. no. 6985927, . Cited 1 time.

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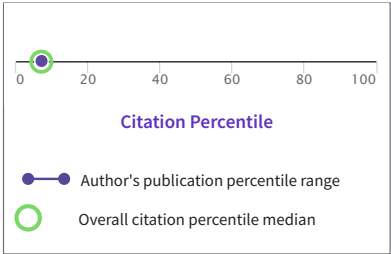
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CNN-Based Brain Tumor Detection Model Using Local Binary Pattern and Multilayered SVM Classifier
Kolla, Morarjee ; Mishra, Rupesh Kumar ; (...); Siddiquee, KazyNoor-E-Alam
Published Jun 2022 | Computational Intelligence and Neuroscience 1 Times Cited

Diabetic Retinopathy Classification Using Binary CNN and Data Augmentation
Morarjee Kolla and T. Venugopal
Published Jan 2022 | Lecture Notes in Networks and Systems Not Indexed

Reduction of Alert Fatigue using Extended Isolation Forest
Tariq Ahmed ; Aayush Shah ; (...); Ramadevi Yellasi
Published Dec 2021 | International Conference on Forensics, Analytics, Big Data, Security (FABS) Not Indexed

Documents

Kolla, M., Mishra, R.K., Zahoor Ul Huq, S., Vijayalata, Y., Gopalachari, M.V., Siddiquee, K.-E.-A.

CNN-Based Brain Tumor Detection Model Using Local Binary Pattern and Multilayered SVM Classifier
(2022) *Computational Intelligence and Neuroscience*, 2022, art. no. 9015778, . Cited 1 time.

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Kolla, Morarjee

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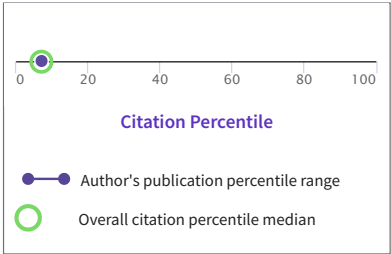
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Design and Implementation of Brain Tumor Segmentation and Detection Using a Novel Woelfel Filter and Morphological Segmentation
Gopalachari, M. Venu ; Kolla, Morarjee ; (...); Tasneem, Zarin
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CNN-Based Brain Tumor Detection Model Using Local Binary Pattern and Multilayered SVM Classifier
Kolla, Morarjee ; Mishra, Rupesh Kumar ; (...); Siddiquee, KazyNoor-E-Alam
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Morarjee Kolla and T. Venugopal
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Reduction of Alert Fatigue using Extended Isolation Forest
Tariq Ahmed ; Aayush Shah ; (...); Ramadevi Yellasi
Published Dec 2021 | International Conference on Forensics, Analytics, Big Data, Security (FABS) Not Indexed

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Sirisinahal, S., Murthy, M.V.R., Ramu, S.C., Reddy, C.R.K.

Improvement of Data Security and Privacy in the Wireless Sensor Network Using Elliptical Curve Cryptography
(2022) *International Journal of Mechanical Engineering*, 7 (1), pp. 2823-2827.

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Assessing Node Trustworthiness through Adaptive Trust Threshold for Secure Routing in Mobile Ad Hoc Networks
(2022) *International Journal of Advanced Computer Science and Applications*, 13 (4), pp. 224-231.

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BENS-B5G: Blockchain-Enabled Network Slicing in 5G and Beyond-5G (B5G) Networks

By: Singh, Saurabh (Singh, Saurabh) ; Babu, C. Rajesh (Babu, C. Rajesh) ; Ramana, Kadiyala (Ramana, Kadiyala) ; Ra, In-Ho (Ra, In-Ho) ; Yoon, Byungun (Yoon, Byungun)

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SENSORS

Volume: 22 **Issue:** 16

Article Number: 6068

DOI: 10.3390/s22166068

Published: AUG 2022

Indexed: 2022-09-03

Document Type: Article

Abstract

Fifth-generation (5G) technology is anticipated to allow a slew of novel applications across a variety of industries. The wireless communication of the 5G and Beyond-5G (B5G) networks will accommodate a wide variety of services and user expectations, including intense end-user connectivity, sub-1 ms delay, and a transmission rate of 100 Gbps. Network slicing is envisioned as an appropriate technique that can meet these disparate requirements. The intrinsic qualities of a blockchain, which has lately acquired prominence, mean that it is critical for the 5G network and B5G networks. In particular, the incorporation of blockchain technology into B5G enables the network to effectively monitor and control resource utilization and sharing. Using blockchain technology, a network-slicing architecture referred to as the Blockchain Consensus Framework is introduced that allows resource providers to dynamically contract resources, especially the radio access network (RAN) schedule, to guarantee that their end-to-end services are effortlessly executed. The core of our methodology is comprehensive service procurement, which offers the fine-grained adaptive allocation of resources through a blockchain-based consensus mechanism. Our objective is to have Primary User-Secondary User (PU-SU) interactions with a variety of services, while minimizing the operation and maintenance costs of the 5G service providers. A Blockchain-Enabled Network Slicing Model (BENS), which is a learning-based algorithm, is incorporated to handle the spectrum resource allocation in a sophisticated manner. The performance and inferences of the proposed work are analyzed in detail.

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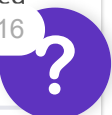
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Rakesh, S.^a, Hegde, N.P.^b

A Framework for Intelligent Traffic Control System

(2022) *International Journal of Engineering Trends and Technology*, 70 (7), pp. 88-93. Cited 1 time.

DOI: 10.14445/22315381/IJETT-V70I7P210

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^b Vasavi College of Engineering, Hyderabad, India

Abstract

Recently, traffic congestion has been among the significant problems encountered by many large cities worldwide. The reasons for the traffic congestion are the hasty increase of motor vehicles and inadequate roadways to accommodate a large number of vehicles. Many researchers find the traffic density by applying edge detection (ED), moving object detection (MOD), and frame differencing techniques separately. However, the edge detection method detects the edges for static images and the MOD method finds the traffic density when vehicles are moving. Actually, in real-time, when the red signal is on a traffic junction, the vehicles are in an idle state; this situation is better to apply the ED method. When the green signal is on, vehicles immediately start moving; this situation is best suitable for applying the MOD method to find the real-time traffic density. This paper illustrates a novel technique named Edge Detection and Moving Object Detection (EDMOD) algorithm, which uses ED and MOD approaches to find the real-time area-wide density of the traffic at the traffic light junction by dividing the Region of Interest (ROI) into two regions. It uses ED in region1 and MOD in region2. © 2022 Seventh Sense Research Group®.

Author Keywords

Edge Detection; Image processing; Moving Object Detection; Traffic density

Publisher: Seventh Sense Research Group

2-s2.0-85135020163

Document Type: Article

Publication Stage: Final

Source: Scopus

Autonomous Vehicles and Intelligent Automation: Applications, Challenges, and Opportunities

By: Bathla, Gourav (Bathla, Gourav) ; Bhadane, Kishor (Bhadane, Kishor) ; Singh, Rahul Kumar (Singh, Rahul Kumar) ; Kumar, Rajneesh (Kumar, Rajneesh) ; Aluvalu, Rajanikanth (Aluvalu, Rajanikanth) ; Krishnamurthi, Rajalakshmi (Krishnamurthi, Rajalakshmi) ; Kumar, Adarsh (Kumar, Adarsh) ; Thakur, R. N. (Thakur, R. N.) ; Basheer, Shakila (Basheer, Shakila)

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MOBILE INFORMATION SYSTEMS

Volume: 2022

Article Number: 7632892

DOI: 10.1155/2022/7632892

Published: JUN 6 2022

Indexed: 2022-06-29

Document Type: Review

Abstract

Intelligent Automation (IA) in automobiles combines robotic process automation and artificial intelligence, allowing digital transformation in autonomous vehicles. IA can completely replace humans with automation with better safety and intelligent movement of vehicles. This work surveys those recent methodologies and their comparative analysis, which use artificial intelligence, machine learning, and IoT in autonomous vehicles. With the shift from manual to automation, there is a need to understand risk mitigation technologies. Thus, this work surveys the safety standards and challenges associated with autonomous vehicles in context of object detection, cybersecurity, and V2X privacy. Additionally, the conceptual autonomous technology risks and benefits are listed to study the consideration of artificial intelligence as an

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essential factor in handling futuristic vehicles. Researchers and organizations are innovating efficient tools and frameworks for autonomous vehicles. In this survey, in-depth analysis of design techniques of intelligent tools and frameworks for AI and IoT-based autonomous vehicles was conducted. Furthermore, autonomous electric vehicle functionality is also covered with its applications. The real-life applications of autonomous truck, bus, car, shuttle, helicopter, rover, and underground vehicles in various countries and organizations are elaborated. Furthermore, the applications of autonomous vehicles in the supply chain management and manufacturing industry are included in this survey. The advancements in autonomous vehicles technology using machine learning, deep learning, reinforcement learning, statistical techniques, and IoT are presented with comparative analysis. The important future directions are offered in order to indicate areas of potential study that may be carried out in order to enhance autonomous cars in the future.

Keywords

Keywords Plus: ARTIFICIAL-INTELLIGENCE; SECURITY; SAFETY; FRAMEWORK; DRIVEN; INTERNET; SYSTEMS; MODEL; IOT

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Autonomous Vehicles and Intelligent Automation: Applications, Challenges, and Opportunities
(2022) *Mobile Information Systems*, 2022, art. no. 7632892, . Cited 1 time.

DOI: 10.1155/2022/7632892

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Abstract

Intelligent Automation (IA) in automobiles combines robotic process automation and artificial intelligence, allowing digital transformation in autonomous vehicles. IA can completely replace humans with automation with better safety and intelligent movement of vehicles. This work surveys those recent methodologies and their comparative analysis, which use artificial intelligence, machine learning, and IoT in autonomous vehicles. With the shift from manual to automation, there is a need to understand risk mitigation technologies. Thus, this work surveys the safety standards and challenges associated with autonomous vehicles in context of object detection, cybersecurity, and V2X privacy. Additionally, the conceptual autonomous technology risks and benefits are listed to study the consideration of artificial intelligence as an essential factor in handling futuristic vehicles. Researchers and organizations are innovating efficient tools and frameworks for autonomous vehicles. In this survey, in-depth analysis of design techniques of intelligent tools and frameworks for AI and IoT-based autonomous vehicles was conducted. Furthermore, autonomous electric vehicle functionality is also covered with its applications. The real-life applications of autonomous truck, bus, car, shuttle, helicopter, rover, and underground vehicles in various countries and organizations are elaborated. Furthermore, the applications of autonomous vehicles in the supply chain management and manufacturing industry are included in this survey. The advancements in autonomous vehicles technology using machine learning, deep learning, reinforcement learning, statistical techniques, and IoT are presented with comparative analysis. The important future directions are offered in order to indicate areas of potential study that may be carried out in order to enhance autonomous cars in the future. © 2022 Gourav Bathla et al.

Index Keywords

Autonomous vehicles, Deep learning, Internet of things, Object detection, Reinforcement learning, Safety engineering, Supply chain management; Automation applications, Autonomous Vehicles, Comparative analyzes, Digital transformation, Intelligent automation, Machine-learning, Process automation, Risk mitigation, Safety standard, Vehicles automations; Surveys

Publisher: Hindawi Limited

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Document Type: Review

Publication Stage: Final

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Leaf Disease Classification in Smart Agriculture using Deep Neural Network Architecture and IoT

By: Ramana, Kadiyala (Ramana, Kadiyala) ; Aluvala, Rajanikanth (Aluvala, Rajanikanth) ; Kumar, Madapuri Rudra (Kumar, Madapuri Rudra) ; Nagaraja, G. (Nagaraja, G.) ; Krishna, Akula Vijaya (Krishna, Akula Vijaya) ; Nagendra, Pidugu (Nagendra, Pidugu)

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JOURNAL OF CIRCUITS SYSTEMS AND COMPUTERS

Volume: 31 **Issue:** 15

Article Number: 2240004

DOI: 10.1142/S0218126622400047

Published: OCT 2022

Early Access: JUN 2022

Indexed: 2022-09-10

Document Type: Article

Abstract

The Internet of Things (IoT) is bringing a new dimension to the smart farming market. This helps the user to collect the data from the agricultural fields in real time and move it to remote areas for processing. With the available sensor data and the image taken from the fields, automated disease prediction is possible. Deep neural network is used for classification of disease using the leaf images. Agriculture is the backbone of our country, but our output is poor when compared to the global standards due to lack of using technologies in the fields. In this work, various sensors like humidity sensor, pH level monitoring sensor, Temperature sensor, and Soil moisture sensor are used in the agricultural fields for collecting the real-time data. Multiple Sensors are installed in various locations of farms with one common controller Raspberry PI 3 module (RPI3), which

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was used to control all these sensors. Camera interfacing with RPI can be observed on leaf disease. Convolutional neural network architecture is used for leaf disease detection and classification. The accuracy of the disease classification system using convolutional neural network is 96% when the system is iterated for 50 epochs.

Keywords

Author Keywords: Smart agriculture; IOT in smart farming; disease classification; convolutional neural network; sensor data for agriculture

Keywords Plus: INTERNET; SENSOR; THINGS

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- 4 Annamacharya Inst Technol & Sci, Dept Comp Sci & Engn, Rajampet 516126, India
- 5 Annamacharya Inst Technol & Sci, Dept Artificial Intelligence & Data Sci, Rajampet 516126, India

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Research Areas: Computer Science; Engineering

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Leaf Disease Classification in Smart Agriculture Using Deep Neural Network Architecture and IoT
(2022) *Journal of Circuits, Systems and Computers*, 31 (15), art. no. 2240004, . Cited 1 time.

DOI: 10.1142/S0218126622400047

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^e Department of Artificial Intelligence and Data Science, Annamacharya Institute of Technology and Sciences, Rajampet, 516126, India

Abstract

The Internet of Things (IoT) is bringing a new dimension to the smart farming market. This helps the user to collect the data from the agricultural fields in real time and move it to remote areas for processing. With the available sensor data and the image taken from the fields, automated disease prediction is possible. Deep neural network is used for classification of disease using the leaf images. Agriculture is the backbone of our country, but our output is poor when compared to the global standards due to lack of using technologies in the fields. In this work, various sensors like humidity sensor, pH level monitoring sensor, Temperature sensor, and Soil moisture sensor are used in the agricultural fields for collecting the real-time data. Multiple Sensors are installed in various locations of farms with one common controller Raspberry PI 3 module (RPI3), which was used to control all these sensors. Camera interfacing with RPI can be observed on leaf disease. Convolutional neural network architecture is used for leaf disease detection and classification. The accuracy of the disease classification system using convolutional neural network is 96% when the system is iterated for 50 epochs. © 2022 World Scientific Publishing Company.

Author Keywords

convolutional neural network; disease classification; IOT in smart farming; sensor data for agriculture; Smart agriculture

Index Keywords

Convolution, Convolutional neural networks, Deep neural networks, Internet of things, Moisture control, Network architecture, Soil moisture; Agricultural fields, Convolutional neural network, Disease classification, lot in smart farming, Leaf disease, Neural network architecture, New dimensions, Sensor data for agriculture, Sensors data, Smart agricultures; Agriculture

Publisher: World Scientific

2-s2.0-85133140042

Document Type: Article

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Documents

Senthil Kumar, G.^a, Ramana, K.^b, Madana Mohana, R.^c, Aluvalu, R.^b, Gunjan, V.K.^d, Singh, N.^{d e}

An Effective Bootstrapping Framework for Web Services Discovery Using Trigram Approach

(2022) *Mobile Information Systems*, 2022, art. no. 2373596, . Cited 1 time.

DOI: 10.1155/2022/2373596

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Abstract

Web services are progressively being used to comprehend service-oriented architectures. Web services facilitate the integration of applications and simplify interoperability. Additionally, it assists in wrapping accessible applications in order for developers to access them using standard languages and protocols. The user faces a difficult challenge in selecting the appropriate service in accordance with the user request as the behavior of the participating service affects the overall performance in discovery, selection, and composition. As a result, it is critical to select a high-quality service provider for these activities. Existing approaches rely on nonfunctional qualities for discovery and selection, but the user cannot always rely on these features, and these QoS values cannot be used to determine the user's or quality perspective. Additionally, the user indicates an interest in a high-quality service based on quality attributes or service with a good reputation throughout the selection process rather than a newly registered service. As a result, a proper bootstrapping mechanism is required to evaluate newly registered services prior to their use by service requestors. This paper proposes a novel bootstrapping mechanism. The contribution of this paper involves (a) a method for evaluating the quality of service (QoS) by focusing on performance-related indicators such as response time, execution time, throughput, latency, and dependability; (b) a methodology for evaluating the QoE attributes based on user reviews that take into account both attributes and opinions; (c) bootstrap the newly registered service based on quality of service and quality of experience; and (d) building a recommender system that suggests the top-rated service for composition. The evaluation results are used to augment currently available online services by providing up-to-date quality of service and quality of experience attributes for discovery, selection, and composition. © 2022 G. Senthil Kumar et al.

Index Keywords

Information services, Interoperability, Quality control, Service oriented architecture (SOA), Web services, Websites; High quality service, Performance, Quality attributes, Quality services, Quality-of-service, Service provider, Service-based, Services values, Tri grams, Web Services discovery; Quality of service

Publisher: Hindawi Limited

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Document Type: Article

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Documents

Monica, K.M.^a, Parvathi, R.^a, Gayathri, A.^b, Aluvalu, R.^c, Sangeetha, K.^d, Simha Reddy, C.V.^e

Hybrid Optimized GRU-ECNN Models for Gait Recognition with Wearable IOT Devices
(2022) *Computational Intelligence and Neuroscience*, 2022, art. no. 5422428, . Cited 1 time.

DOI: 10.1155/2022/5422428

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^e Department of Computer Science, Middlesex University, London, United Kingdom

Abstract

With the advent of the Internet of Things (IoT), human-Assistive technologies in healthcare services have reached the peak of their application in terms of diagnosis and treatment process. These devices must be aware of human movements to provide better aid in clinical applications as well as the user's daily activities. In this context, real-Time gait analysis remains to be key catalyst for developing intelligent assistive devices. In addition to machine and deep learning algorithms, gait recognition systems have significantly improved in terms of high accuracy recognition. However, most of the existing models are focused on improving gait recognition while ignoring the computational overhead that affects the accuracy of detection and even remains unsuitable for real-Time implementation. In this research paper, we proposed a hybrid gated recurrent unit (GRU) based on BAT-inspired extreme convolutional networks (BAT-ECN) for the effective recognition of human activities using gait data. The gait data are collected by implanting the wearable Internet of Things (WIoT) devices invasively. Then, a novel GRU and ECN networks are employed to extract the spatio-Temporal features which are then used for classification to realize gait recognition. Extensive and comprehensive experimentations have been carried out to evaluate the proposed model using real-Time datasets and also other benchmarks such as whuGait and OU-ISIR datasets. To prove the excellence of the proposed learning model, we have compared the model's performance with the other existing hybrid models. Results demonstrate that the proposed model has outperformed the other learning models in terms of high gait classification and less computational overhead. © 2022 K. M. Monica et al.

Index Keywords

Deep learning, Gait analysis, Learning algorithms, Pattern recognition, Real time control, Wearable technology; Assistive technology, Clinical application, Computational overheads, Daily activity, Gait recognition, Healthcare services, Human movements, Learning models, Real- time, Treatment process; Internet of things; algorithm, electronic device, gait, human; Algorithms, Gait, Humans, Internet of Things, Neural Networks, Computer, Wearable Electronic Devices

Publisher: Hindawi Limited

2-s2.0-85130645597

Document Type: Article

Publication Stage: Final

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Documents

Uma Maheswari, V.^a, Aluvalu, R.^b, Mudrakola, S.^c

An Integrated Number Plate Recognition System through images using Threshold-based methods and KNN

(2022) *2022 International Conference on Decision Aid Sciences and Applications, DASA 2022*, pp. 493-497. Cited 1 time.

DOI: 10.1109/DASA54658.2022.9765218

^a Vardhaman College of Engineering, Hyderabad, India

^b Chaitanya Bharathi Institute of Technology(A), Hyderabad, India

^c Matrusri Engineering College, Hyderabad, India

Abstract

In the last few decades, the use of vehicles in our daily life has become mandatory and increased drastically. Sometimes, controlling traffic and identifying vehicle owners manually becomes tedious due to crowd signals, which disobey the traffic rules and drive fast and abnormal. This demands an efficient and automatic system to solve the problem these days. Still, it is challenging in such cases as moving vehicles fast, font on number plate, illumination, etc. This led to developing efficient and automatic number plate detection as the solution. This paper presents automatic number plate detection with number diagnosis and tracking by applying various methods such as thresholding, morphological methods, contour detection, etc. Later, KNN is used for classification to improve accuracy. The proposed method tested on datasets DB1 and DB2 proves better in terms of accuracy, recognition rate, and retrieval rate. © 2022 IEEE.

Author Keywords

Contour detection; Image feature extraction; KNN; Morphological operations; Thresholding

Index Keywords

Feature extraction, Vehicles; Automatic numbering, Contour detection, Daily lives, Image feature extractions, KNN, Morphological operations, Number plate recognition systems, Number plates, Plate detections, Thresholding; Mathematical morphology

Publisher: Institute of Electrical and Electronics Engineers Inc.

2-s2.0-85130098484

Document Type: Conference Paper

Publication Stage: Final

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Bio-Signals in Medical Applications and Challenges Using Artificial Intelligence

By: Swapna, Mudrakola (Swapna, Mudrakola) ; Viswanadhula, Uma Maheswari (Viswanadhula, Uma Maheswari) ; Aluvalu, Rajanikanth (Aluvalu, Rajanikanth) ; Vardharajan, Vijayakumar (Vardharajan, Vijayakumar) ; Kotecha, Ketan (Kotecha, Ketan)

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JOURNAL OF SENSOR AND ACTUATOR NETWORKS

Volume: 11 **Issue:** 1

Article Number: 17

DOI: 10.3390/jsan11010017

Published: MAR 2022

Indexed: 2022-04-06

Document Type: Article

Abstract

Artificial Intelligence (AI) has broadly connected the medical field at various levels of diagnosis based on the congruous data generated. Different types of bio-signal can be used to monitor a patient's condition and in decision making. Medical equipment uses signals to communicate information to care staff. AI algorithms and approaches will help to predict health problems and check the health status of organs, while AI prediction, classification, and regression algorithms are helping the medical industry to protect from health hazards. The early prediction and detection of health conditions will guide people to stay healthy. This paper represents the scope of bio-signals using AI in the medical area. It will illustrate possible case studies relevant to bio-signals generated through IoT sensors. The bio-signals that retrospectively occur are discussed, and the new challenges of medical diagnosis using bio-signals are identified.

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Keywords

Author Keywords: artificial intelligence; signal processing; bio-medical signal processing; smart health devices; sensors; bio-signals

Keywords Plus: HEALTH; CLASSIFICATION; RECOGNITION; REGRESSION; ALGORITHM

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- 2 Vardhaman Coll Engn, Dept Comp Sci & Engn, Hyderabad 501218, India
- 3 Chaitanya Bharathi Inst Technol A, Dept IT, Hyderabad 500075, India
- 4 Univ New South Wales, Sch Comp Sci & Engn, Sydney, NSW 1466, Australia
- 5 Symbiosis Int Univ, Symbiosis Ctr Appl Artificial Intelligence, Pune 412115, Maharashtra, India

Categories/Classification

Research Areas: Telecommunications

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Swapna, M.^a, Uma Maheswari, V.^b, Aluvalu, R.^c, Vardharajan, V.^d, Kotecha, K.^e

Bio-Signals in Medical Applications and Challenges Using Artificial Intelligence

(2022) *Journal of Sensor and Actuator Networks*, 11 (1), art. no. 17, . Cited 3 times.

DOI: 10.3390/jsan11010017

^a Department of Computer Science and Engineering, Matrusri Engineering College, Hyderabad, 500058, India

^b Department of Computer Science and Engineering, Vardhaman College of Engineering, Hyderabad, 501218, India

^c Department of IT, Chaitanya Bharathi Institute of Technology(A), Hyderabad, 500075, India

^d School of Computer Science and Engineering, The University of New South Wales, Sydney, 1466, Australia

^e Symbiosis Centre for Applied Artificial Intelligence, Symbiosis International University, Pune, 412115, India

Abstract

Artificial Intelligence (AI) has broadly connected the medical field at various levels of diagnosis based on the congruous data generated. Different types of bio-signal can be used to monitor a patient's condition and in decision making. Medical equipment uses signals to communicate information to care staff. AI algorithms and approaches will help to predict health problems and check the health status of organs, while AI prediction, classification, and regression algorithms are helping the medical industry to protect from health hazards. The early prediction and detection of health conditions will guide people to stay healthy. This paper represents the scope of bio-signals using AI in the medical area. It will illustrate possible case studies relevant to bio-signals generated through IoT sensors. The bio-signals that retrospectively occur are discussed, and the new challenges of medical diagnosis using bio-signals are identified. © 2022 by the authors. Licensee MDPI, Basel, Switzerland.

Author Keywords

artificial intelligence; bio-medical signal processing; bio-signals; sensors; signal processing; smart health devices

Publisher: MDPI

2-s2.0-85126993111

Document Type: Review

Publication Stage: Final

Source: Scopus

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Early Prediction of Lung Cancers Using Deep Saliency Capsule and Pre-Trained Deep Learning Frameworks

By: Ramana, Kadiyala (Ramana, Kadiyala) ; Kumar, Madapuri Rudra (Kumar, Madapuri Rudra) ; Sreenivasulu, K. (Sreenivasulu, K.) ; Gadekallu, Thippa Reddy (Gadekallu, Thippa Reddy) ; Bhatia, Surbhi (Bhatia, Surbhi) ; Agarwal, Parul (Agarwal, Parul) ; Idrees, Sheikh Mohammad (Idrees, Sheikh Mohammad)

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FRONTIERS IN ONCOLOGY

Volume: 12

Article Number: 886739

DOI: 10.3389/fonc.2022.886739

Published: JUN 17 2022

Indexed: 2022-07-10

Document Type: Article

Abstract

Lung cancer is the cellular fission of abnormal cells inside the lungs that leads to 72% of total deaths worldwide. Lung cancer are also recognized to be one of the leading causes of mortality, with a chance of survival of only 19%. Tumors can be diagnosed using a variety of procedures, including X-rays, CT scans, biopsies, and PET-CT scans. From the above techniques, Computer Tomography (CT) scan technique is considered to be one of the most powerful tools for an early diagnosis of lung cancers. Recently, machine and deep learning algorithms have picked up peak energy, and this aids in building a strong diagnosis and prediction system using CT scan images. But achieving the best performances in diagnosis still remains on the darker side of the research. To solve this problem, this paper proposes novel saliency-based capsule networks for better segmentation and employs the optimized pre-trained transfer learning for the better prediction of lung cancers from the input CT images. The integration of capsule-based saliency segmentation leads to the reduction and eventually reduces the risk of computational complexity and overfitting problem. Additionally, hyperparameters of pretrained networks are tuned by the whale optimization algorithm to improve the prediction accuracy by sacrificing the complexity. The extensive experimentation carried out using the LUNA-16 and LIDC Lung Image datasets and various performance metrics such as accuracy, precision, recall, specificity, and F1-score are evaluated and analyzed. Experimental results demonstrate that the proposed framework has achieved the peak performance of 98.5% accuracy, 99.0% precision,

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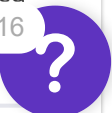
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Documents

Bavirithi, S.S.^a, Supreethi, K.P.^b

An efficient framework for spatio-textual skyline querying and minimizing search space using R+ tree indexing technique

(2022) *International Journal of Information Technology (Singapore)*, 14 (3), pp. 1263-1271. Cited 1 time.

DOI: 10.1007/s41870-021-00845-1

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^b Department of CSE, JNTUH College of Engineering, JNTUH, Telangana, Hyderabad, 500085, India

Abstract

A lot of attention is attracted by skyline querying for its way of formulating the query analysis, which filters the sub-optimal objects that are not relevant to the query. One of its major drawbacks is producing too many insights that are not in the interest of the user along with limited relevant results and increased search space. To solve these issues, many methods based on user preference such as keyword and geo-metric location are introduced for reducing the skylines retrieved which relaxes the dominance definition. This paper presents a spatial-textual skyline querying process using the R + tree indexing technique for establishing a relation between the keywords given by the user and the geometric data of the user with an efficient sky R + pruning technique while considering the minimization of search space for the user's query. With extensive experimentation, it is shown that the proposed spatial-textual skyline querying indexing mechanism showed better performance when compared to the other competing skyline querying indexed mechanisms. © 2022, The Author(s), under exclusive licence to Bharati Vidyapeeth's Institute of Computer Applications and Management.

Author Keywords

Point objects; Query processing; R+ tree; Spatial data mining; Spatial keyword query; Spatial objects; Spatial skyline querying; Textual relevance

Publisher: Springer Science and Business Media B.V.

ISSN: 25112104

2-s2.0-85124979149

Document Type: Article

Publication Stage: Final

Source: Scopus

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Analysing the adoption barriers for sustainability in the Indian power sector by DEMATEL approach

By: Gedam, Vidyadhar V. (Gedam, Vidyadhar V.) ; Raut, Rakesh D. (Raut, Rakesh D.) ; Priyadarshinee, Pragati (Priyadarshinee, Pragati) ; Chirra, Sricharan (Chirra, Sricharan) ; Pathak, Pranav D. (Pathak, Pranav D.)

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INTERNATIONAL JOURNAL OF SUSTAINABLE ENGINEERING

Volume: 14 **Issue:** 3 **Page:** 471-486

DOI: 10.1080/19397038.2021.1874072

Published: MAY 4 2021

Early Access: FEB 2021

Indexed: 2021-02-25

Document Type: Article

Abstract

The present work analyses and prioritises the sustainability barriers in the context of human and organisational (HAO) dimensions in the Indian power sector. A total of eleven barriers were identified through the detailed literature review, the expert's inputs, and four groups. Further, the decision-making trial and evaluation laboratory (DEMATEL) approach was used to analyse the barriers along with the cause-effect relationship. The study showed that there are five barriers in the cause groups and six in the effect group. The most significant barriers among them are top management/stakeholders support and commitment; lack of green training and awareness; policies and practices for recruitment and selection; performance, appraisal, and reward; environmental knowledge, concern, and attitude; adaptation and linkage of green human resource management (GHRM), and green supply chain management (GSCM). The study emphasised the need to combine efforts from the organisation and government towards sustainability. The managers and decision-makers of the Indian power sector also need to focus on HAO aspects for implementing sustainability in the Indian power sector.

Keywords

Author Keywords: Sustainability; human and organisational; power sector; dematel; barriers

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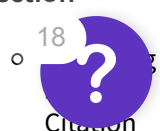
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^a Department of Biotechnology, Chaitanya Bharathi Institute of Technology, Hyderabad, 500075, India
^b Department of Applied Biology, University of Science and Technology Meghalaya (USTM), Meghalaya, Ri-Bhai, 793101, India
^c Gujarat Pollution Control Board, Gujarat, Gandhinagar, 382010, India

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10.1016/j.chemosphere.2021.132299

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Application of bioelectrochemical systems to regulate and accelerate the anaerobic digestion processes

Nagendranatha Reddy C^{a,b}; Kondaveeti, Sanath^c; Mohanakrishna, Gunda^c; Min, Booki^a

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^a Department of Environmental Science and Engineering, Kyung Hee University, Seochon-dong, Yongin-si, 446-701, Gyeonggi-do, South Korea

^b Department of Biotechnology, Chaitanya Bharathi Institute of Technology (Autonomous), Gandipet, Hyderabad, 500075, Telangana State, India

^c Division of Chemical Engineering, Konkuk University, 1 Hwayang-Dong, Gwangjin-Gu, Seoul, 05029, South Korea

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Jadhav, D.A., Chendake, A.D., Vinayak, V.
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Application of bioelectrochemical systems to regulate and accelerate the anaerobic digestion processes

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CHEMOSPHERE

Volume: 287 Part: 4

Article Number: 132299

DOI: 10.1016/j.chemosphere.2021.132299

Published: JAN 2022

Early Access: OCT 2021

Indexed: 2021-11-04

Document Type: Article

Abstract

Anaerobic digestion (AD) serves as a potential bioconversion process to treat various organic wastes/wastewaters, including sewage sludge, and generate renewable green energy. Despite its efficiency, AD has several limitations that need to be overcome to achieve maximum energy recovery from organic materials while regulating inhibitory substances. Hence, bioelectrochemical systems (BESs) have been widely investigated to treat inhibitory compounds including ammonia in AD processes and improve the AD operational efficiency, stability, and economic viability with various integrations. The BES operations as a pretreatment process, inside AD or after the AD process aids in the upgradation of biogas (CO₂ to methane) and residual volatile fatty acids (VFAs) to valuable chemicals and fuels (alcohols) and even directly to electricity generation. This review presents a comprehensive summary of BES technologies and operations for overcoming the limitations of AD in lab-scale applications and suggests upscaling and future opportunities for BES-AD systems.

Keywords

Author Keywords: Anaerobic digestion (AD); Bioelectrochemical systems (BES); Integration technology; pH stability; Resource recovery

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Effect of fill pattern and printing speed on friction characteristics of FDM printed polylactic acid polymer

Renganathan, Sujithra* Saritha D.

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* Department of Applied Mechanics, Motilal Nehru National Institute of Technology

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Frunzaverde, D., Cojocaru, V., Ciobotariu, C.-R. (2022) *Polymers*

Steady state thermal analysis of debinding process used in metal fused filament fabrication (MFF)

Velmurugan, C., Vijaya Kumar, P. (2022) *Advances in Materials and Processing Technologies*

Investigation of wear properties of 3D printed PLA

Effect of fill pattern and printing speed on friction characteristics of FDM printed polylactic acid polymer

By: Renganathan, Sujithra (Renganathan, Sujithra) ; Saritha, D. (Saritha, D.)

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ADVANCES IN MATERIALS AND PROCESSING TECHNOLOGIES

DOI: 10.1080/2374068X.2021.1948707

Early Access: JUL 2021

Indexed: 2021-07-25

Document Type: Article, Early Access

Abstract

Fused Deposition Modelling is a three-dimensional printing technique used for making prototypes and rapid manufacturing of various parts ranging from commercial to biomedical applications. The FDM printed parts results in anisotropic mechanical properties due to weak bond formation between the rasters and the layers. It is possible to print a part with desired properties by optimising the tool path strategy and printing parameters. This paper investigates the friction properties of FDM-built PLA samples with three different fill patterns (Concentric, Linear, and Hilbert) at two different printing speeds (20 mm/s and 50 mm/s). This study shows that printing parameters influence the friction coefficient and specific wear rate. The result shows that the fill pattern with a suitable printing speed provides good

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10.1002/htj.22349

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Heat and mass transfer effects on MHD mixed convection flow of viscoelastic fluid with constant viscosity and thermal conductivity

[Sharada, Kankanala](#) [Save all to author list](#)^a Department of Mathematics, Chaitanya Bharathi Institute of Technology(A), Kokapet(V), Gandipet(M), Hyderabad, Telangana, India1 81th percentile
Citation in Scopus1.44
FWCI 14
Views count [View all metrics](#) [Full text options](#) [Export](#) [Abstract](#)[Author keywords](#)[Indexed keywords](#)[SciVal Topics](#)[Metrics](#)**Abstract**

The present exploration is based on the contributions of heat and mass transport on the non-Newtonian viscoelastic liquid motion under the impact of magnetism, Soret and Dufour numbers. The model equations that describe the flow mechanism of heat and mass transport are partial differential equations (PDEs). The PDEs were simplified using suitable similarity functions to obtain coupled nonlinear totalordinary differential equations. The simplified equations are numerically solved utilizing the spectral homotopy analysis method. Findings show that the process of heat transport is

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Idowu, A.S. , Falodun, B.O. (2020) *Mathematics and Computers in Simulation*

Contributions of variable viscosity and thermal conductivity on the dynamics of non-Newtonian nanofluids flow past an accelerating vertical plate

Gladys, T. , Ramana Reddy, G.V. (2022) *Partial Differential Equations in Applied Mathematics*

Analysis of variable magnetic field on chemically dissipative MHD boundary layer flow of Casson fluid over a nonlinearly stretching sheet with slip conditions

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Journal of Porous Media • Volume 25, Issue 4, Pages 37 - 51 • 2022**Document type**

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ACTIVATION ENERGY PROCESS IN BIOCONVECTION NANOFLUID FLOW THROUGH POROUS CAVITY

[Bodduna, Jamuna^a](#); [Mallesh M.P.^a](#); [Balla, Chandra Shekar^b](#) ; [Shehzad, Sabir Ali^c](#)
[Save all to author list](#)^a Department of Mathematics, Koneru Lakshmaiah Education Foundation (Deemed to Be University), Off Campus, Azinagar, Telangana, Hyderabad, India^b Department of Mathematics, Chaitanya Bharathi Institute of Technology, Gandipet, Telangana, Hyderabad, India^c Department of Mathematics, COMSATS University Islamabad, Sahiwal, 57000, Pakistan
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This article reports the activation energy process in thermo-bioconvection flow via porous media within the four-sided cavity filled with gyrotactic microorganisms and nanofluid. The Darcy model with Boussinesq approximation is utilized for the momentum equation in porous medium. The Pedley and Kessler model is utilized for the concentration equations of gyrotactic microorganisms.

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Triple stratification impacts on an inclined hydromagnetic bioconvective flow of micropolar nanofluid with exponential space-based heat generation

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Effect of inclination angle on bioconvection in porous square cavity containing gyrotactic microorganisms and nanofluid

Balla, C.S. , Bodduna, J. , Kumari, S.V.H.N.K. (2022) *Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science*

Impact of Soret and Dufour on bioconvective flow of nanofluid in porous square cavity

Balla, C.S. , Ramesh, A. , Kishan, N. (2021) *Heat Transfer*

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Nanofluid Bioconvection in Porous Enclosure with Viscous Dissipation

[Alluguvelli, Ramesh^a](#) ; [Balla, Chandra Shekar^b](#); [Naikoti, Kishan^c](#); [Makinde, Oluwale Daniel^d](#) [Save all to author list](#)^a Department of Mathematics, Geethanjali College of Engineering and Technology, Affiliated to JNTUH, Hyderabad, 501 301, India^b Department of Mathematics, Chaitanya Bharathi Institute of Technology, Affiliated to Osmania University, Hyderabad, 500 075, India^c Department of Mathematics, Osmania University, Hyderabad, 500 007, India^d Faculty of Military Science, Stellenbosch University, Private Bag X1, Matieland, 7602, South Africa4 94th percentile
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Abstract

In this paper, the bioconvective nanofluid flow in porous square enclosure containing oxytactic microorganism associated with viscous dissipation, is discussed. The bioconvection flow in porous medium is framed by Darcy-Boussinesq approximation. Galerkin finite elements method is employed to solve the governed equations. The computational numerical results are exhibited by the surface plots of stream function, temperature, concentration of oxygen and microorganisms, average

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Darcy-Forchheimer and Ohmic heating effects on GO-TiO₂ suspended cross nanofluid flow through stenosis artery

Rathore, N. , Sandeep, N. (2022) *Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science*

Analysis of Cu water nanofluid flow with different particle shapes over an isothermal moving plate

Chaudhary, S. (2022) *Indian Journal of Chemical Technology*

Thermosolutal natural convection cooling process of a thermal source inside a partially porous cavity

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Effect of chemical reaction on bioconvective flow in oxytactic microorganisms suspended porous cavity

Balla, C.S. , Alluguvelli, R. , Naikoti, K. (2020) *Journal of Applied and Computational Mechanics*

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Published: OCT 2021

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Indexed: 2021-06-20

Document Type: Article

Abstract

Previous research investigators have exploited machine-learning algorithms to diagnose the defects in rotating machinery. However, with increasing complexity in the design of rotating machinery, it is quite challenging to quantify the faults precisely. In this present study, an attempt has been made to predict the defect severity of the rotating machinery using Adaptive Neuro-Fuzzy Inference System (ANFIS). This ANFIS algorithm employs artificial neural networks to define the membership functions, rules and weights to construct the fuzzy inference system. Experiments are performed on a multi-stage spur gearbox model while it is subjected to fluctuating operating speeds. Two local defects on bearing race as well as on gear tooth with four different severity levels are seeded intentionally. Three condition monitoring (CM) strategies, namely, vibration, lubrication oil and acoustic signal analyses are executed, and the raw data is recorded synchronously. The raw vibration and acoustic waveforms are decomposed through discrete wavelet transform to extract the descriptive statistics from the wavelet coefficients. Among them, most discriminating features are selected and given as input to ANFIS classification tool to train the network for obtaining the Sugeno-type FIS, which in turn estimates the severity of the component. Later, the features from the individual CM strategies

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(2021) *Arabian Journal for Science and Engineering*, 46 (12), pp. 11999-12008. Cited 6 times.

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Published: DEC 2021

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Indexed: 2021-06-20

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Abstract

Contemporary fault diagnosis algorithms constitute advanced signal processing techniques integrated with the data-driven feature classification algorithms which make an effective fault diagnosis scheme for rotating machinery such as gearboxes and motors. Feature extraction is a prevalent task which is intended to assist the fault diagnosis process by eliciting a set of condition indicators (features) from the input raw signal. In actual scenario, the gearboxes may have multiple stages and are rather operating under fluctuating speeds. The feature extraction technique employed at medium and high ranges of operating speed may not be adequate during low operating speeds. In this present study, the feature extraction abilities of discrete wavelet transform (DWT) and empirical mode decomposition (EMD) in terms of their relative effectiveness while ascertaining the local gear tooth defects of a multistage gearbox are compared. Two local gear tooth defects, namely root crack and tooth chip with three severity levels, are seeded artificially. The experiments are carried out on a three-stage spur gearbox experiencing fluctuating operating speeds. Vibration analysis is performed, and the recorded raw vibration signatures are decomposed using DWT and EMD analyses separately. Mother wavelet selection is done using the criteria of energy-to-Shannon entropy ratio. The identification of intrinsic

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ABSTRACT

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Vani, S.; ChandraSekhar, P.; Sankriti, Ramanarayan; Aparna, G.

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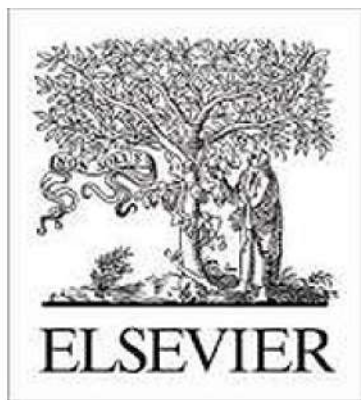
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Optimized adaptive neuro fuzzy inference system (OANFIS) based EEG signal analysis for seizure recognition on FPGA

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ABSTRACT

The activities of the human brain can be affected due to certain neurological disorder called seizure. Generally, the epileptic abnormalities can be identified by direct visual scanning. But this scanning consumes more time, and it is limited due to some technical artefacts. Hence, there is a necessity of

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Multi-Band Multi-Functional Metasurface-Based Reflective Polarization Converter for Linear and Circular Polarizations

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ABSTRACT

In this paper, we present a simple metasurface based multiband reflective polarization converter for both linear and circular polarizations. We show that, on one hand, the proposed structure can convert the polarization of linearly polarized waves to the orthogonal direction at four frequency bands ~4.5

AUTHORS

Dutta, Rahul; Ghosh, Jeet; Yang, Zhengbao; Zhang, Xingqi

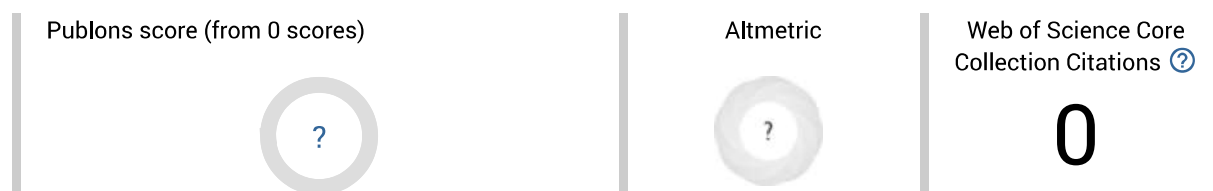
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Gupta, S., Aluvalu, R.

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(2021) *International Journal of Sociotechnology and Knowledge Development*, 13 (1), pp. 1-7. Cited 3 times.

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Document Type: Article

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Aravind, P., Saradhi Varma, G.P., Prasad Reddy, P.V.G.D.

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(2021) *International Journal of Speech Technology*, . Cited 5 times.

2-s2.0-85105007680

Document Type: Article

Publication Stage: Article in Press

Source: Scopus

Documents

Nayal, K.^a, Raut, R.^a, Priyadarshinee, P.^b, Narkhede, B.E.^a, Kazancoglu, Y.^c, Narwane, V.^d

Exploring the role of artificial intelligence in managing agricultural supply chain risk to counter the impacts of the COVID-19 pandemic

(2022) *International Journal of Logistics Management*, 33 (3), pp. 744-772. Cited 10 times.

DOI: 10.1108/IJLM-12-2020-0493

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^c Department of International Logistics Management, Yaşar Üniversitesi, Izmir, Turkey

^d K.J. Somaiya College of Engineering, Mumbai, India

Abstract

Purpose: In India, artificial intelligence (AI) application in supply chain management (SCM) is still in a stage of infancy. Therefore, this article aims to study the factors affecting artificial intelligence adoption and validate AI's influence on supply chain risk mitigation (SCRM). **Design/methodology/approach:** This study explores the effect of factors based on the technology, organization and environment (TOE) framework and three other factors, including supply chain integration (SCI), information sharing (IS) and process factors (PF) on AI adoption. Data for the survey were collected from 297 respondents from Indian agro-industries, and structural equation modeling (SEM) was used for testing the proposed hypotheses. **Findings:** This study's findings show that process factors, information sharing, and supply chain integration (SCI) play an essential role in influencing AI adoption, and AI positively influences SCRM. The technological, organizational and environmental factors have a nonsignificant negative relation with artificial intelligence. **Originality/value:** This study provides an insight to researchers, academicians, policymakers, innovative project handlers, technology service providers, and managers to better understand the role of AI adoption and the importance of AI in mitigating supply chain risks caused by disruptions like the COVID-19 pandemic. © 2021, Emerald Publishing Limited.

Author Keywords

Agriculture supply chain (ASC); Artificial intelligence; Structural equation modeling; Supply chain risk mitigation

Publisher: Emerald Group Holdings Ltd.

ISSN: 09574093

2-s2.0-85109262780

Document Type: Article

Publication Stage: Final

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Antecedents for blockchain technology-enabled sustainable agriculture supply chain

By: Nayal, Kirti (Nayal, Kirti) ; Raut, Rakesh D. (Raut, Rakesh D.) ; Narkhede, Balkrishna E. (Narkhede, Balkrishna E.) ; Priyadarshinee, Pragati (Priyadarshinee, Pragati) ; Panchal, Gajanan B. (Panchal, Gajanan B.) ; Gedam, Vidyadhar V. (Gedam, Vidyadhar V.)

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DOI: 10.1007/s10479-021-04423-3

Early Access: DEC 2021

Indexed: 2021-12-11

Document Type: Article; Early Access

Abstract

Blockchain can solve the problems that the agriculture supply chain (ASC) is facing to achieve sustainable growth. In a nation like India, blockchain application in the supply chain is still new; therefore, supply chain players need a better understanding and awareness of blockchain through valuable insights. This article aims to study the mediating role of blockchain technology adoption (BLCT) for sustainable supply chain performance (SSCP). This study investigates the influence of numerous factors such as green and lean practices, supply chain integration, supply chain risk, performance expectancy, top management support, cost, internal and external environmental conditions, regulatory support, and innovation capability on BLCT adoption. A sample of 316 respondents from Indian ASC industries was collected, and structural equation modeling (SEM) was used. This study's outcomes show that green and lean practices, supply chain integration, supply chain risks, internal and external conditions, regulatory support, innovation capability, and cost positively influence BLCT adoption. Moreover, BLCT positively influences sustainable agriculture supply chain performance. This article is valuable for policymakers, managers, service providers, researchers, and academicians to understand the role of factors in influencing BLCT and BLCT's role in improving sustainable supply chain performance (SSCP).

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Nayal, K.^a, Raut, R.D.^a, Narkhede, B.E.^a, Priyadarshinee, P.^b, Panchal, G.B.^c, Gedam, V.V.^d

Antecedents for blockchain technology-enabled sustainable agriculture supply chain

(2021) *Annals of Operations Research*, . Cited 9 times.

DOI: 10.1007/s10479-021-04423-3

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^d Environmental Engineering and Management, National Institute of Industrial Engineering (NITIE), #610, Level 6, ALB Building, Powai, Mumbai, 400087, India

Abstract

Blockchain can solve the problems that the agriculture supply chain (ASC) is facing to achieve sustainable growth. In a nation like India, blockchain application in the supply chain is still new; therefore, supply chain players need a better understanding and awareness of blockchain through valuable insights. This article aims to study the mediating role of blockchain technology adoption (BLCT) for sustainable supply chain performance (SSCP). This study investigates the influence of numerous factors such as green and lean practices, supply chain integration, supply chain risk, performance expectancy, top management support, cost, internal and external environmental conditions, regulatory support, and innovation capability on BLCT adoption. A sample of 316 respondents from Indian ASC industries was collected, and structural equation modeling (SEM) was used. This study's outcomes show that green and lean practices, supply chain integration, supply chain risks, internal and external conditions, regulatory support, innovation capability, and cost positively influence BLCT adoption. Moreover, BLCT positively influences sustainable agriculture supply chain performance. This article is valuable for policymakers, managers, service providers, researchers, and academicians to understand the role of factors in influencing BLCT and BLCT's role in improving sustainable supply chain performance (SSCP). © 2021, The Author(s).

Author Keywords

Agricultural-food supply chain (ASC); Blockchain technology (BLCT); Structural equation modeling (SEM); Sustainable supply chain performance (SSCP)

Publisher: Springer

2-s2.0-85120698115

Document Type: Article

Publication Stage: Article in Press

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Supply chain firm performance in circular economy and digital era to achieve sustainable development goals

By: Nayal, Kirti (Nayal, Kirti) ; Kumar, Shashank (Kumar, Shashank) ; Raut, Rakesh D. (Raut, Rakesh D.) ; Queiroz, Maciel M. (Queiroz, Maciel M.) ; Priyadarshinee, Pragati (Priyadarshinee, Pragati) ; Narkhede, Balkrishna E. (Narkhede, Balkrishna E.)

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BUSINESS STRATEGY AND THE ENVIRONMENT

Volume: 31 **Issue:** 3 **Page:** 1058-1073

DOI: 10.1002/bse.2935

Published: MAR 2022

Early Access: NOV 2021

Indexed: 2021-11-24

Document Type: Article

Abstract

Digitalization of the supply chain (SC) has received plenty of attention from practitioners and researchers in recent years to address the challenges of the business environment and assist firms in achieving a circular SC. Implementing circularity in business operations is a practice of achieving sustainability which is of utmost significance for achieving sustainable development goals established by the United Nations. This study empirically examines the relation among flexibility, AI-IoT adoption, and SC firm performance under the circular economy (CE) environment based on resource orchestration theory (ROT), an integrated version of the extended-resource-based view, and dynamic capability theory (DCT). Data were collected from Indian manufacturing firms through a questionnaire-based survey and examined using "structural equation modeling (SEM)." The study results show that information flexibility and organizational flexibility have the highest impact on AI-IoT adoption. Organizational flexibility shows full mediation with AI-IoT, which would influence the SC firm performance directly. The analysis also indicates that CE will affect the relation between organizational flexibility and AI-IoT adoption. These findings pave the way for cross-country analysis, formation of practical strategies, and policies related to AI-IoT and CE implementations.

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Nayal, K.^a, Kumar, S.^a, Raut, R.D.^a, Queiroz, M.M.^b, Priyadarshinee, P.^c, Narkhede, B.E.^a

Supply chain firm performance in circular economy and digital era to achieve sustainable development goals
(2022) *Business Strategy and the Environment*, 31 (3), pp. 1058-1073. Cited 8 times.

DOI: 10.1002/bse.2935

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^b Postgraduate Program in Business Administration, Paulista University – UNIP, São Paulo, Brazil

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Abstract

Digitalization of the supply chain (SC) has received plenty of attention from practitioners and researchers in recent years to address the challenges of the business environment and assist firms in achieving a circular SC. Implementing circularity in business operations is a practice of achieving sustainability which is of utmost significance for achieving sustainable development goals established by the United Nations. This study empirically examines the relation among flexibility, AI–IoT adoption, and SC firm performance under the circular economy (CE) environment based on resource orchestration theory (ROT), an integrated version of the extended-resource-based view, and dynamic capability theory (DCT). Data were collected from Indian manufacturing firms through a questionnaire-based survey and examined using “structural equation modeling (SEM).” The study results show that information flexibility and organizational flexibility have the highest impact on AI–IoT adoption. Organizational flexibility shows full mediation with AI–IoT, which would influence the SC firm performance directly. The analysis also indicates that CE will affect the relation between organizational flexibility and AI–IoT adoption. These findings pave the way for cross-country analysis, formation of practical strategies, and policies related to AI–IoT and CE implementations. © 2021 ERP Environment and John Wiley & Sons Ltd.

Author Keywords

AI–IoT; circular economy (CE); resource orchestration theory; SEM; supply chain flexibility; Sustainable Development Goals (SDG)

Index Keywords

industrial performance, manufacturing, supply chain management, Sustainable Development Goal, technology adoption, United Nations

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Document Type: Article

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The role of big data for Supply Chain 4.0 in manufacturing organisations of developing countries

By: Narwane, Vaibhav S. (Narwane, Vaibhav S.) ; Raut, Rakesh D. (Raut, Rakesh D.) ; Yadav, Vinay Surendra (Yadav, Vinay Surendra) ; Cheikhrouhou, Naoufel (Cheikhrouhou, Naoufel) ; Narkhede, Balkrishna E. (Narkhede, Balkrishna E.) ; Priyadarshinee, Pragati (Priyadarshinee, Pragati)

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JOURNAL OF ENTERPRISE INFORMATION MANAGEMENT

Volume: 34 **Issue:** 5 **Page:** 1452-1480 **Special Issue:** SI

DOI: 10.1108/JEIM-11-2020-0463

Published: NOV 9 2021

Early Access: OCT 2021

Indexed: 2021-10-21

Document Type: Article

Abstract

Purpose Big data is relevant to the supply chain, as it provides analytics tools for decision-making and business intelligence. Supply Chain 4.0 and big data are necessary for organisations to handle volatile, dynamic and global value networks. This paper aims to investigate the mediating role of "big data analytics" between Supply Chain 4.0 business performance and nine performance factors. Design/methodology/approach A two-stage hybrid model of statistical analysis and artificial neural network analysis is used for analysing the data. Data gathered from 321 responses from 40 Indian manufacturing organisations are collected for the analysis. Findings Statistical analysis results show that performance factors of organisational and top management, sustainable procurement and sourcing, environmental, information and product delivery, operational, technical and knowledge, and collaborative planning have a significant effect on big data adoption. Furthermore, the results were given to the artificial neural network model as input and results show "information and product delivery" and "sustainable procurement and sourcing" as the two most vital predictors of big data adoption. Research limitations/implications This study confirms the mediating role of

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Narwane, V.S.^a, Raut, R.D.^b, Yadav, V.S.^c, Cheikhrouhou, N.^d, Narkhede, B.E.^b, Priyadarshinee, P.^e

The role of big data for Supply Chain 4.0 in manufacturing organisations of developing countries
(2021) *Journal of Enterprise Information Management*, 34 (5), pp. 1452-1480. Cited 3 times.

DOI: 10.1108/JEIM-11-2020-0463

^a Mechanical Engineering, KJ Somaiya College of Engineering, Mumbai, India

^b Operations and Supply Chain Management, National Institute of Industrial Engineering, Mumbai, India

^c Mechanical Engineering, National Institute of Technology Raipur, Raipur, India

^d Geneva School of Business Administration, HES-SO, Geneva, Switzerland

^e Chaitanya Bharathi Institute of Technology, Gandipet, India

Abstract

Purpose: Big data is relevant to the supply chain, as it provides analytics tools for decision-making and business intelligence. Supply Chain 4.0 and big data are necessary for organisations to handle volatile, dynamic and global value networks. This paper aims to investigate the mediating role of “big data analytics” between Supply Chain 4.0 business performance and nine performance factors. **Design/methodology/approach:** A two-stage hybrid model of statistical analysis and artificial neural network analysis is used for analysing the data. Data gathered from 321 responses from 40 Indian manufacturing organisations are collected for the analysis. **Findings:** Statistical analysis results show that performance factors of organisational and top management, sustainable procurement and sourcing, environmental, information and product delivery, operational, technical and knowledge, and collaborative planning have a significant effect on big data adoption. Furthermore, the results were given to the artificial neural network model as input and results show “information and product delivery” and “sustainable procurement and sourcing” as the two most vital predictors of big data adoption. **Research limitations/implications:** This study confirms the mediating role of big data for Supply Chain 4.0 in manufacturing organisations of developing countries. This study guides to formulate management policies and organisation vision about big data analytics. **Originality/value:** For the first time, the impact of big data on Supply Chain 4.0 is discussed in the context of Indian manufacturing organisations. The proposed hybrid model intends to evaluate the mediating role of big data analytics to enhance Supply Chain 4.0 business performance. © 2021, Emerald Publishing Limited.

Author Keywords

Artificial neural network; Big data analytics; Business performance; Digital supply chain; Structural equation modelling; Supply chain 4.0

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The impact of sustainable development strategy on sustainable supply chain firm performance in the digital transformation era

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BUSINESS STRATEGY AND THE ENVIRONMENT

Volume: 31 **Issue:** 3 **Page:** 845-859

DOI: 10.1002/bse.2921

Published: MAR 2022

Early Access: OCT 2021

Indexed: 2021-11-04

Document Type: Article

Abstract

Availability of limited resources presents the need for sustainable development strategies to achieve sustainable performance. However, in the era of digitalization and globalization many researchers explored the role of digital technologies in improving sustainable performance. However, the literature on the role of collaboration and coordination in a digitally enabled supply chain (SC) to achieve sustainability is still lacking. This study aims to investigate the effect of supply chain collaboration and coordination (SCC), sustainable development strategy (SDS), digital transformation (DIT), and collaborative advantages (COA) on sustainable supply chain firm performance (SSCFP). The conceptual model is based on the relational view (RV), transaction cost economics (TCE), technology, organization and environment (TOE), and resource-based view (RBV) theories. This study utilizes structural equation modeling (SEM) to analyze data collected from 361 respondents of the automotive industry in India. The findings show that SCC positively affects SDS and DIT. SDS positively affects DIT, COA, and DIT positively affects SSCFP. DIT fully mediates the relationship between SCC and SSCFP. Managers can improve sustainable performance in the digitalized SC. The study provides empirical evidence to

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The impact of sustainable development strategy on sustainable supply chain firm performance in the digital transformation era

(2022) *Business Strategy and the Environment*, 31 (3), pp. 845-859. Cited 12 times.

DOI: 10.1002/bse.2921

^a Department of Operations and Supply Chain Management, National Institute of Industrial Engineering (NITIE), Mumbai, India

^b Department of Mechanical Engineering, National Institute of Technology, Raipur, India

^c Chaitanya Bharathi Institute of Technology (CBIT), Hyderabad, India

Abstract

Availability of limited resources presents the need for sustainable development strategies to achieve sustainable performance. However, in the era of digitalization and globalization many researchers explored the role of digital technologies in improving sustainable performance. However, the literature on the role of collaboration and coordination in a digitally enabled supply chain (SC) to achieve sustainability is still lacking. This study aims to investigate the effect of supply chain collaboration and coordination (SCC), sustainable development strategy (SDS), digital transformation (DIT), and collaborative advantages (COA) on sustainable supply chain firm performance (SSCFP). The conceptual model is based on the relational view (RV), transaction cost economics (TCE), technology, organization and environment (TOE), and resource-based view (RBV) theories. This study utilizes structural equation modeling (SEM) to analyze data collected from 361 respondents of the automotive industry in India. The findings show that SCC positively affects SDS and DIT. SDS positively affects DIT, COA, and DIT positively affects SSCFP. DIT fully mediates the relationship between SCC and COA. The study suggests that managers can apply SCC, SDS, and DIT in series to achieve sustainable performance. However, the COA can only be enhanced in the digitalized SC. The study provides empirical evidence to policymakers and practitioners for the synergy between SCC, SDS, DIT, and COA to achieve sustainable performance in the SC's manufacturing firm. © 2021 ERP Environment and John Wiley & Sons Ltd.

Author Keywords

collaborative advantages; digital transformation; supply chain collaboration and coordination; sustainable development goals (SDGs); sustainable development strategy; sustainable supply chain firm performance

Index Keywords

conceptual framework, corporate social responsibility, digitization, numerical model, supply chain management, sustainability, sustainable development, Sustainable Development Goal, transaction cost; India

Publisher: John Wiley and Sons Ltd

ISSN: 09644733

2-s2.0-85118104811

Document Type: Article

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Manjulatha, B.^a, Pabboju, S.^b

An Ensemble Model for Predicting Chronic Diseases Using Machine Learning Algorithms
(2021) *Smart Innovation, Systems and Technologies*, 224, pp. 337-345. Cited 1 time.

DOI: 10.1007/978-981-16-1502-3_34

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Abstract

Correct diagnosis of a disease plays a vital role in today's environment. Diabetes and liver are one such chronic diseases which are the most hazardous ailment that affects a large number of individuals which may lead to death. Machine learning algorithms help to predict the diseases early which saves many lives of mankind in the world. Datasets like Pima Indian diabetes dataset (PIMA), Indian liver patient data (ILPD) and cardiovascular disease (CVD) are taken from UCI repository to compare the results by applying various well-known algorithms. Every algorithm gives its output independently but knowing the highest accuracy is difficult as each algorithm gives different result, i.e., may be less or more according to their dimensions. In this system, accuracy is increased by combining individual algorithms such as decision tree, SVM, logistic regression, ANN, random forest classifier, KNN to construct an ensemble hybrid model which gives more accurate, accuracy. © 2021, The Author(s), under exclusive license to Springer Nature Singapore Pte Ltd.

Author Keywords

Diabetes; Ensemble techniques; Heart disease; Liver; Machine learning

Index Keywords

Decision trees, Diagnosis, Diseases, Hospital data processing, Learning systems, Logistic regression, Support vector machines; Cardiovascular disease, Chronic disease, Ensemble modeling, Hybrid model, Patient data, Pima Indian Diabetes, Random forest classifier, UCI repository; Learning algorithms

Publisher: Springer Science and Business Media Deutschland GmbH

ISSN: 21903018

ISBN: 9789811615016

2-s2.0-85112716874

Document Type: Conference Paper

Publication Stage: Final

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10.1002/ceat.202000434

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^a Chaitanya Bharathi Institute of Technology, Department of Chemical Engineering, Hyderabad, 500075, Telangana, India

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^a Department of Biotechnology, Chaitanya Bharathi Institute of Technology, Hyderabad, 500075, India
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10.1007/s13399-021-01276-5
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Simultaneous production of astaxanthin and lipids from *Chlorella sorokiniana* in the presence of reactive oxygen species: a biorefinery approach

Yadavalli, Rajasri^{a,b}; Ratnapuram, Hariprasad^b; Peasari, John Reddy^b; Reddy, C. Nagendranatha^a; Ashokkumar, Veeramuthu^c; Kuppan, Chandrasekhar^d

^aDepartment of Biotechnology, Chaitanya Bharathi Institute of Technology (Autonomous), Gandipet, Telangana State, Hyderabad, 500075, India
^bDepartment of Biotechnology, Sreenidhi Institute of Science and Technology (Autonomous), Yamnampet, Chhatrapati Sambhaji Maharaj State, Hyderabad, India

^cDepartment of Biotechnology, Chaitanya Bharathi Institute of Technology (Autonomous), Gandipet, Telangana State, Hyderabad, 500075, India
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By: Yadavalli, Rajasri (Yadavalli, Rajasri); Ratnapuram, Hariprasad (Ratnapuram, Hariprasad); Peasari, John Reddy (Peasari, John Reddy); Reddy, C. Nagendranatha (Reddy, C. Nagendranatha); Ashokkumar, Veeramuthu (Ashokkumar, Veeramuthu); Kuppan, Chandrasekhar (Kuppan, Chandrasekhar)

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Volume: 12 Issue: 3 Page: 881-889 Special Issue: SI
DOI: 10.1007/s13399-021-01276-5
Published: MAR 2022
Early Access: JAN 2021
Indexed: 2021-01-27
Document Type: Article

Abstract

The current study aimed to investigate the concurrent production of astaxanthin and lipids using *Chlorella sorokiniana* under mixotrophic conditions in an external loop airlift photobioreactor (ELAPB). Supplementation of Fe²⁺ into the media in the red phase (stress phase) induced the astaxanthin production. The maximum yield of 154.36 mg L⁻¹ was obtained by the end of the red phase, which is equivalent to 3.4% of the dry biomass weight. The role of reactive oxygen species in the formation of astaxanthin, which protects the microalgal cells from different oxidative stress, has been elucidated. Apart from astaxanthin, unsaturated fatty acids (81.34%) were also produced with excellent biodiesel properties. Unsaturated fatty acids viz., palmitoleic acid (16:1), have resulted in high yields (22.85%), followed by linoleic acid (18:2), 28.27%; oleic acid (18:1), 14.39%; and eicosapentaenoic acid (20:5), 4.49%. Hence, the simultaneous production of high value-added products, viz., astaxanthin, and lipids makes the whole process economically viable and environmentally sustainable and elevates the commercial potential during scale-up. The astaxanthin radical scavenging activity was also assessed by H2O2 assay, and the maximum scavenging activity was determined as 91%. The study confers the potential advantages of algal cultivation for high-value commercial product synthesis towards additional revenue generation and development of an efficient microalgae-based biorefinery process.

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Process Biochemistry • Volume 102, Pages 213–219 • March 2021

Influence of Trace Metals concentration on Methane generation using Microbial Electrochemical Systems

Reddy, C. Nagendranatha^{a, b}; Kondaveeti, Sanath^c; Min, Booki^d

^a Department of Environmental Science and Engineering, Kyung Hee University, 1732 Deogyong-daero, Giheung-gu, Yongin-si, 17104, Gyeonggi-do, South Korea

^b Department of Biotechnology, Chaitanya Bharathi Institute of Technology (Autonomous), Gandipet, Hyderabad, 500075, Telangana State, India

^c Department of Chemical Engineering, Konkuk University, 1 Hwayang-Dong, Gwangjin-Gu, Seoul, 05029, South Korea

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Chandrasekhar, K., Raj, T., Ramanaiah, S.V. (2022) *Bioresource Technology*

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Volume: 102 Pages: 213-219
DOI: 10.1016/j.procbio.2020.12.021
Published: MAR 2021
Early Access: JAN 2021
Indexed: 2021-03-16
Document Type: Article

Abstract

The biomethane generation in microbial electrosynthesis systems (MESs) was affected by the addition of trace metals (TMs) during biocatalyst's metabolic activity. The functional role of various TMs (Mg²⁺, Fe²⁺, Ni²⁺, Zn²⁺, Co²⁺, Mn²⁺, and Mo²⁺) in regulating the CH₄ production potential of a biocatalyst was evaluated under three different ranges of TM concentrations, and their performances were compared with the control operation (no trace metals). The TM level in a relatively medium concentration range exhibited the best efficiency and could enhance the CH₄ production and currents generation by 3.9 and 7.7 folds higher than the values from the control. Cyclic voltammogram profiles depicted increment in redox catalytic currents during MES operation with TMs and also supported the involvement of mediators towards CH₄ generation. The optimum TM concentrations could enhance MES performance as a constituent of ferredoxin and hydrogenase linked to energy metabolism.

Keywords

Author Keywords: Microbial electrochemical system; Divalent cations; Trace elements; Inorganic carbon (CO₂); Biomethane
Keywords Plus: ANAEROBIC-DIGESTION; BIOGAS PRODUCTION; CARBON-DIOXIDE; BIOELECTROCHEMICAL REDUCTION; ELEMENT SUPPLEMENTATION; ELECTRON-TRANSFER; WASTE; CONVERSION; CH₄; CO₂

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10.1117/12.2589198

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Multi U-bent cladded POF sensors for refractive index measurement

Kishore P.V.N.^a; Aruna N.^a; Pratima B.M.^b; Rajeswara Rao N.^c; Ashok J.^d

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^a Department of Freshman Engineering, Lakireddy Bali Reddy College of Engineering, Andhra Pradesh, Mylavaram, 521230, India

^b Department of Physics, Chaitanya Bharathi Institute of Technology, Telangana, Hyderabad, 500075, India

^c Department of Physics, Aditya College of Engineering and Technology, A.P, Surampalem, 533437, India

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The cladded U-bent plastic optical fiber (POF) probes with single, triple and quintuple U-bent regions investigated under this study show a RI sensitivity of 2.7, 3.7 and 2.3 absorbance units/RI units respectively. The highest sensitivity obtained here is more than 50% of decladded single U-bent POF probes, however with superior chemical resistance. © 2021 SPIE.

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Power corrections to event shapes using Eikonal dressed gluon exponentiation

[Agarwal, Neelima^a](#) ; [Mukhopadhyay, Ayan^b](#) ; [Pal, Sourav^b](#) ; [Tripathi, Anurag^b](#)

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^a Department of Physics, Chaitanya Bharathi Institute of Technology, Gandipet, Hyderabad, 500075, Telangana State, India^b Department of Physics, Indian Institute of Technology Hyderabad, Kandi, Sangareddy, 502285, Telangana State, India2 56th percentile
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Event shapes are classical tools for the determination of the strong coupling and for the study of hadronization effects in electron-positron annihilation. In the context of analytical studies, hadronization corrections take the form of power-suppressed contributions to the cross section, which can be extracted from the perturbative ambiguity of Borel-resummed distributions. We propose a simplified version of the well-established method of Dressed Gluon Exponentiation (DGE), which we call Eikonal DGE (EDGE), which determines all dominant power corrections to event shapes by means of strikingly elementary calculations. We believe our method can be generalized to hadronic event shapes and jet shapes of relevance for LHC physics. © 2021, The Author(s).

Author keywords

NLO Computations; QCD Phenomenology

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On linear power corrections in certain collider observables

 Caola, F. , Ravasio, S.F. , Limatola, G.
 (2022) *Journal of High Energy Physics*

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Cwebs beyond three loops in multiparton amplitudes

[Agarwal, Neelima^a](#) ; [Magnea, Lorenzo^{b, c}](#) ; [Pal, Sourav^d](#) ; [Tripathi, Anurag^d](#)

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^a Department of Physics, Chaitanya Bharathi Institute of Technology, Gandipet, Hyderabad, 500075, Telangana State, India^b Theoretical Physics Department, CERN, Geneva 23, CH-1211, Switzerland^c Dipartimento di Fisica and Arnold-Regge Center, Università di Torino and INFN, Sezione di Torino, Via Pietro Giuria 1, Torino, I-10125, Italy^d Department of Physics, Indian Institute of Technology Hyderabad, Kandi, Sangareddy, 502285, Telangana State, India6 80th percentile
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Abstract

Correlators of Wilson-line operators in non-abelian gauge theories are known to exponentiate, and their logarithms can be organised in terms of collections of Feynman diagrams called webs. In [1] we introduced the concept of Cweb, or correlator web, which is a set of skeleton diagrams built with connected gluon correlators, and we computed the mixing matrices for all Cwebs connecting four or five Wilson lines at four loops. Here we complete the evaluation of four-loop mixing matrices, presenting the results for all Cwebs connecting two and three Wilson lines. We observe that the conjectured column sum rule is obeyed by all the mixing matrices that appear at four-loops. We also show how low-dimensional mixing matrices can be uniquely determined from their known

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Cation distribution in Ni substituted $\text{Ba}_{0.5}\text{Sr}_{1.5}\text{Co}_2\text{Fe}_{12}\text{O}_{22}$ Y-type hexagonal ferrites

[Manendar M.^a](#); [Reddy, S. Shravan Kumar^b](#); [Ramesh J.^c](#); [Reddy, M. Sreenath^a](#); [Raja, M. Manivel^d](#);

[Reddy, Ch. Gopal^a](#) ; [Reddy, P. Yadagiri^a](#); [Reddy, V. Raghavendra^c](#)

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^a Department of Physics, Osmania University, University College of Science, Hyderabad, 500 007, India^b Chaitanya Bharathi Institute of Technology, Gandipet, Hyderabad, 500075, India^c CMR Institute of Technology, Kandla Koya, Hyderabad, 501401, India^d Defence Metallurgical Research Laboratory, Hyderabad, 500058, India[View additional affiliations](#)
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The present work reports the study of cation distribution in Ni substituted polycrystalline $\text{Ba}_{0.5}\text{Sr}_{1.5}\text{Co}_2\text{Fe}_{12}\text{O}_{22}$ ($\text{Co}_2\text{Y-BSCFO}$) hexaferrite samples using complimentary experimental methods viz., in-field F57e Mössbauer and Raman spectroscopy. Combining the analysis of in-field F57e Mössbauer and Raman spectroscopy measurements it is shown that the substituted Ni in $\text{Co}_2\text{Y-BSCFO}$ preferentially occupies the octahedral site with spin-down configuration i.e., $6c_{VI}$. The obtained cation distribution data is found to qualitatively match the magnetization values as obtained from bulk

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Investigation of Mg-Doped Y-Type Barium Hexaferrite Using Mössbauer Spectroscopy

Baik, J.S. , Shim, I.-B. , Kim, C.S. (2022) *IEEE Transactions on Magnetics*

Structural, dielectric, and magnetic properties of $\text{CaBaCo}_{2-x}\text{Y}$ -type hexaferrites

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Correlation Between Structural Features and Microwave Analysis of Substituted $\text{Sr-Co}_2\text{Y}$ Ceramic Nanoparticles

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AIP Conference Proceedings • Volume 2352 • 5 August 2021 • Article number 020018 • 5th National e-Conference on Advanced Materials and Radiation Physics, AMRP 2020 • Longowal • 9 November 2020 through 11 November 2020 • Code 170876

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Conference Paper

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Conference Proceedings

ISSN

0094243X

ISBN

978-073544105-7

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10.1063/5.0053022

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Magnetization studies of Mn doped YFeO₃ multiferroics

Padmasree G.^a; Reddy, S. Shravan Kumar^c; Kumar, N. Pavan^d; Reddy, P. Yadagiri^b; Reddy, Ch. Gopal^b

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^a Stanley College of Engineering and Technology for Women, Abids, Hyderabad, Telangana, 500001, India

^b Department of Physics, Osmania University, Hyderabad, Telangana, 500007, India

^c Department of Physics, Chaitanya Bharathi Institute of Technology, Hyderabad, 500075, India

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Padmasree, G. , Reddy, S.S.K. , Ramesh, J. (2020) *Materials Research Express*

Investigations on the structural, electrical, magnetic and ⁵⁷Fe Mössbauer studies of YFeO₃

Padmasree, G. , Kumar, N.P. , Abhinav, E.M. (2022) *Ceramics International*

Effect of Gd substitution on the structure and magnetic properties of YFeO₃ ceramics

Yuan, X. , Sun, Y. , Xu, M. (2012) *Journal of Solid State Chemistry*

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Abstract

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Abstract

The studies on the structural and magnetic properties of YFe_{1-x}MnxO₃ (x = 0, 0.1, 0.2, 0.3, 0.4 and 0.5) multiferroic samples, prepared by sol-gel method, are reported in this paper. The X-ray diffraction studies confirm the crystalline nature of the compounds which are formed in a pure single phase. From scanning electron micrographs, the average particle size is found to be increased with increasing Mn content and the sample is becoming porous. Magnetization versus magnetic field studies reveal that as Mn content increases, the saturation magnetization, remnant magnetization and coercive field values decreases which clearly indicates that the antiferromagnetic coupling gets strengthened. This increase in the antiferromagnetic nature is possibly due to the structural distortions in the compounds which give rise to the antiferromagnetic super exchange magnetic interactions between Fe³⁺ - Fe³⁺ and Fe³⁺ - Mn³⁺. © 2021 Author(s).



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Materials Today: Proceedings • Volume 46, Pages 2201 - 2204 • 2021 • 2020 International Conference on Multifunctional Nanomaterials, ICMN 2020 • Virtual, Online • 28 December 2020 through 30 December 2020 • Code 169724

Document type

Conference Paper

Source type

Journal

ISSN

22147853

DOI

10.1016/j.matpr.2021.03.199

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Structural and magnetic properties of $Y_{1-x}Dy_xFeO_3$ multiferroics

Padmasree G.^a; Shraavan Kumar Reddy S.^c; Pavan Kumar N.^d; Yadagiri Reddy P.^b; Gopal Reddy, Ch.^b

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^a Stanley College of Engineering and Technology for Women, Abids, Telangana, Hyderabad, 500001, India

^b Department of Physics, Osmania University, Telangana, Hyderabad, 500007, India

^c Department of Physics, Chaitanya Bharathi Institute of Technology, Hyderabad, 500075, India

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Study of structural, electrical and hyperfine properties of Dy doped $YFeO_3$

Padmasree, G. , Reddy, P.Y. , Reddy, C.G.
(2022) *Ceramics International*

Effect of Gd substitution on the structure and magnetic properties of $YFeO_3$ ceramics

Yuan, X. , Sun, Y. , Xu, M.
(2012) *Journal of Solid State Chemistry*

Synergistic effect of trivalent (Gd^{3+} , Sm^{3+}) and high-valent (Ti^{4+}) co-doping on antiferromagnetic $YFeO_3$

Bharadwaj, P.S.J. , Kundu, S. , Kollipara, V.S.
(2020) *RSC Advances*

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Abstract

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$Y_{1-x}Dy_xFeO_3$ ($x = 0.0, 0.2, 0.4, 0.6$ and 0.8) multiferroic materials are prepared by sol-gel method. The effect of Dy doping on the structural and magnetic properties of $YFeO_3$ has been investigated in this paper. X-ray diffraction plots indicate that all the samples are crystalline and possess orthorhombic structure. The morphological studies show that samples possess non uniform grain size and grains are irregular in shape. Magnetic measurements suggest that substitution of Dy^{3+} ions in place of Y^{3+} ions effectively enhances the magnetization of $YFeO_3$. This enhancement may be due to the additional Dy-Dy interactions, Dy-Fe interactions and Fe-O-Fe superexchange bond caused by the distortion of crystal structure. © 2021 Elsevier Ltd. All rights reserved.



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Physical Chemistry Chemical Physics • Volume 23, Issue 9, Pages 5607 - 5614 • 7 March 2021**Document type**

Article

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Journal

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Non-collinear antiferromagnetism to compensated ferrimagnetism in $\text{Ti}(\text{Fe}_{1-x}\text{Co}_x)_2$ ($x = 0, 0.5$ and 1) alloys: experiment and theory

Samatham, S. Shanmukharao^a ; Patel, Akhilesh Kumar^b; Lukoyanov, Alexey V.^{c, d}; Suresh K.G.^b; Nirmala R.^e

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^a Department of Physics, Maharaj Vijayaram Gajapathi Raj College of Engineering, Vijayaram Nagar Campus, Chintalavalasa, Vizianagaram, 535005, Andhra Pradesh, India

^b Magnetic Materials Laboratory, Department of Physics, Indian Institute of Technology Bombay, Mumbai, 400 076, Maharashtra, India

^c M. N. Miheev Institute of Metal Physics of Ural Branch of Russian Academy of Sciences, Ekaterinburg, 620108, Russian Federation

^d Ural Federal University, Ekaterinburg, 620002, Russian Federation

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Cheng, T.-M. , Yu, G.-L. , Zhang, X.-X.
(2022) *Physica B: Condensed Matter*

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Quantum phase transition and non-Fermi liquid behavior in Fe_{1-x}Co_xSi ($x = 0.7$)

Shanmukharao Samatham, S. , Suresh, K.G. , Ganesan, V.
(2018) *Journal of Physics Condensed Matter*

Critical exponents and universal magnetic behavior of noncentrosymmetric Fe_{0.6}Co_{0.4}Si

Samatham, S.S. , Suresh, K.G.
(2018) *Journal of Physics Condensed Matter*

Metal to insulator transition and an impurity band conduction in Fe_{1-x}Cr_xSi

Yadam, S. , Singh, D. , Venkateshwarlu, D.
(2016) *Journal of Alloys and Compounds*

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Abstract[Indexed keywords](#)[SciVal Topics](#)[Metrics](#)[Funding details](#)**Abstract**

The manifestation of the structural and magnetic properties of Co substituted TiFe₂ is investigated using powder X-ray diffraction, magnetization and density functional theory calculations. The alloys TiFe₂ and TiFeCo crystallize in the hexagonal structure (P6₃/mmc) with a reduction in the lattice parameters of TiFeCo (by about 0.51% and 0.64% inc) when compared to TiFe₂. On the other hand,



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International Journal of Environmental Analytical Chemistry • 2021**Document type**

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Journal

ISSN

03067319

DOI

10.1080/03067319.2021.1938020

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Mapping of ambient gamma radiation levels and risk assessment in some parts of Eastern Deccan Plateau, India

[Srinivas Reddy G.^a](#); [Vinay Kumar Reddy K.^b](#); [Sreenivasa Reddy B.^b](#); [Linga Reddy B.^b](#);

[Sreenath Reddy M.^c](#) ; [Gopal Reddy, Ch.^c](#); [Yadagiri Reddy P.^c](#)
[Save all to author list](#)^a Department of Physics and Chemistry, Mahatma Gandhi Institute of Technology, Hyderabad, India^b Department of Physics, Chaitanya Bharathi Institute of Technology, Hyderabad, India^c Department of Physics, Osmania University, Hyderabad, India

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Natural background gamma radiation levels in the indoors and outdoors of certain northern districts of Telangana State, situated on Deccan plateau, were measured with scintillation detector-based survey metre. It was observed that the absorbed gamma dose rates in the indoor and outdoor of the study area were found to vary from 106 nGyh⁻¹ to 322 nGyh⁻¹ with an average of 192±48 nGyh⁻¹, and 102 nGyh⁻¹ to 331 nGyh⁻¹ with an average of 172±50 nGyh⁻¹, respectively. Spatial distribution maps and isodose contours are created using inverse distance weighted technique. The histogram and quantile graphs of the indoor and outdoor natural background gamma radiation levels were observed to follow the

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Natural background gamma radiation dose estimation in the surrounding villages of Devarakonda Town, Telangana State, India

Reddy, M.S. , Suman, G. , Reddy, K.V.K. (2021) *Journal of Radioanalytical and Nuclear Chemistry*

Estimation of natural background gamma radiation dose in the environs of uranium mineralized area: A case study at Megavath Thanda, Nalgonda district, Telangana state, India

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Radiation and Environmental Biophysics • Volume 60, Issue 3, Pages 437 - 445 • August 2021**Document type**

Article

Source type

Journal

ISSN

0301634X

DOI

10.1007/s00411-021-00912-y

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Inhalation dose due to residential radon and thoron exposure in rural areas: a case study at Erravalli and Narasannapet model villages of Telangana state, India

[Reddy, B. Linga^a](#); [Reddy, G. Srinivas^b](#); [Reddy, K. Vinay Kumar^a](#); [Reddy, B. Sreenivasa^a](#)

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^a Chaitanya Bharathi Institute of Technology, Gandipet, Hyderabad, 500075, India^b Mahatma Gandhi Institute of Technology, Gandipet, Hyderabad, 500075, India2 59th percentile
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Mapping of ambient gamma radiation levels and risk assessment in some parts of Eastern Deccan Plateau, India

Srinivas Reddy, G. , Vinay Kumar Reddy, K. , Sreenivasa Reddy, B. (2021) *International Journal of Environmental Analytical Chemistry*[View all 2 citing documents](#)

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[Authors](#) [Keywords](#) **Abstract**[Author keywords](#)[Reaxys Chemistry database information](#)[Indexed keywords](#)[Sustainable Development Goals 2022](#)[SciVal Topics](#)[Chemicals and CAS Registry Numbers](#)[Metrics](#)[Funding details](#)**Abstract**

Exposure to indoor radon has been identified as a cause of lung cancer. The corresponding inhalation radiation dose received is an important parameter in estimating the risk of cancer due to the inhalation of radon. The present investigation is aimed at the estimation of the radiation dose due to radon, its



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10.1038/s41598-021-85698-1

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Radon and thoron levels in the dwellings of Buddonithanda: a village in the environs of proposed uranium mining site, Nalgonda district, Telangana state, India

[Suman G.^a](#); [Vinay Kumar Reddy K.^b](#); [Sreenath Reddy M.^a](#) ; [Gopal Reddy, Ch.^a](#); [Yadagiri Reddy P.^a](#)
[Save all to author list](#)^a Department of Physics, Osmania University, Hyderabad, 500007, India^b Department of Physics, Chaitanya Bharathi Institute of Technology, Hyderabad, 500 075, India
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Abstract

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Abstract

Elevated levels of radon and thoron in the indoor atmosphere may cause the deleterious effects on the mankind. Mining sites and their environs attract a special interest in radon studies as higher levels are frequently reported in the habitats. In the present study, radon and thoron levels were measured in the dwellings of Buddonithanda, a village in the environs of proposed uranium mining site, with pin-hole (SSNTDs) dosimeters for the period of a year. The measured radon and thoron levels were found to vary widely from 14 to 675 Bq m⁻³ (geometric mean = 94 Bq m⁻³) and from 21 to 704 Bq m⁻³ (geometric mean = 121 Bq m⁻³), respectively. An attempt was made to understand the large spatial variation of these levels. The seasonal and diurnal variation studies were used in unraveling the behavior of the

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Radiological risk estimation from indoor radon, thoron, and their progeny concentrations using nuclear track detectors

 Gogoi, P.P. , Barooah, D. (2022) *Environmental Monitoring and Assessment*

Health Effects of Natural Environmental Radiation during Burning Season in Chiang Mai, Thailand

 Autsavapromporn, N. , Krandrod, C. , Klunklin, P. (2022) *Life*

Assessment of indoor radon activity concentration levels in four northern districts of Telangana state, India

 Srinivas Reddy, G. , Vinay Kumar Reddy, K. , Sreenivasa Reddy, B. (2021) *Journal of Radioanalytical and Nuclear Chemistry*
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Indoor radon and thoron in the vicinity of proposed uranium mining site: A case study at Dasarlapally Village, Telangana State, India

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Inhalation dose due to residential radon and thoron exposure in rural areas: a case study at Erravalli and Narasannapet model villages of Telangana state, India

 Reddy, B.L. , Reddy, G.S. , Reddy, K.V.K. (2021) *Radiation and Environmental Biophysics*

Thoron studies in dwellings of certain northern districts of Telangana state, India

 Reddy, G.S. , Reddy, K.V.K. , Reddy, B.S. (2021) *AIP Conference Proceedings*
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Journal of Radioanalytical and Nuclear Chemistry • Volume 330, Issue 3, Pages 1339 - 1345 • December 2021**Document type**

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Journal

ISSN

02365731

DOI

10.1007/s10967-021-07875-w

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Natural background gamma radiation dose estimation in the surrounding villages of Devarakonda Town, Telangana State, India

[Reddy, M. Srinivas^b](#); [Suman G.^a](#); [Reddy, K. Vinay Kumar^c](#); [Reddy, M. Sreenath^a](#) ; [Reddy, Ch. Gopal^a](#); [Reddy, P. Yadagiri^a](#)

[Save all to author list](#)^a Department of Physics, Osmania University, Hyderabad, 500007, India^b Department of Physics, Nagarjuna Government Degree College, Nalgonda, 508001, India^c Department of Physics, Chaitanya Bharathi Institute of Technology, Hyderabad, 500 075, India

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Chemicals and CAS Registry Numbers

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Abstract

Natural background gamma radiation levels were estimated in indoors and outdoors of the surrounding seven villages of Devarakonda town, these villages are at a distance of 15 to 20kms from the proposed uranium mining area, in the Telangana State, with μR survey meter and Thermoluminescence Dosimeters (TLDs). The estimated average absorbed dose rates in the indoors and outdoors with survey meter were found to be $233 \pm 68 \text{ nGy h}^{-1}$ and $204 \pm 55 \text{ nGy h}^{-1}$, respectively, and estimated average gamma radiation levels with TLDs in the indoors were found to be $318 \pm 48 \text{ nGy h}^{-1}$. The estimated dose rate is about four times higher than the national average. The distribution of

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Estimation of natural background gamma radiation dose in the environs of uranium mineralized area: A case study at Megavath Thanda, Nalgonda district, Telangana state, India

Suman, G. , Reddy, K.V.K. , Reddy, M.S.
(2021) *AIP Conference Proceedings*

Ambient natural gamma radiation dose measurement in Devarakonda town, Nalgonda district, India

Reddy, M.S. , Suman, G. , Reddy, K.V.K.
(2021) *AIP Conference Proceedings*

Dose assessment due to natural gamma radiation levels and radioactive nuclides in the environment of Dasarlapally, Nalgonda District, Telangana State, India

Suman, G. , Vinay Kumar Reddy, K. , Sreenath Reddy, M.
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Proceedings of SPIE - The International Society for Optical Engineering • Volume 11772 • 2021 • Article number 117720I • Optical Sensors 2021 • Virtual, Online • 19 April 2021 through 23 April 2021 • Code 169853

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Conference Proceedings

ISSN

0277786X

ISBN

978-151064378-9

DOI

10.1117/12.2589085

[View more](#)

Detection of copper by localized surface Plasmon resonance based fiber optic technique

Aruna N.^{a, b}; Chandra Mouli K.^b; Kishore P.V.N.^a; Pratima B.M.^c; Rajeswara Rao N.^d; Ashok J.^e

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^a Department of Freeman Engineering, Lakireddy Balireddy College of Engineering, Andhra Pradesh, Mylavaram, 521230, India

^b Department of Engineering Physics, Andhra University College of Engineering (A), Andhra Pradesh, Visakhapatnam, 530003, India

^c Department of Physics, Chaitanya Bharathi Institute of Technology, Telangana, Hyderabad, 500075, India

^d Department of Physics, Aditya College of Engineering and Technology, A.P, Surampalem, 533437, India

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Bonnassieux, Y. , Yaghmazadeh, O. , Aldakov, D.
(2011) *Proceedings of the International Display Workshops*

Estimation Models for the Refractive Index Response Curve of EFBGs

Kuhne, J.F. , Rocha, A.M. , Barreto, R.C.
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Abstract

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Abstract

The present article discusses a cost effective technique for the detection and quantification of copper ion by using localized surface Plasmon resonance (LSPR) based fiber optic technique. For the purpose, a small portion of a plastic optical fiber is functionalized with gold nanoparticles which are modified



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Journal of Magnetism and Magnetic Materials • Volume 523 • 1 April 2021 • Article number 167561**Document type**

Article

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Journal

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Raman and in-field ^{57}Fe Mössbauer study of cation distribution in indium (In) substituted phase pure cobalt ferrite ($\text{CoFe}_{2-x}\text{In}_x\text{O}_4$)

Sumalatha M.^a; Shravan Kumar Reddy S.^b; Sreenath Reddy M.^c ; Sripada, Suresh^d; Manivel Raja M.^e; Gopal Reddy, Ch.^f; Yadagiri Reddy P.^f; Raghavendra Reddy V.^f

[Save all to author list](#)^a Sreenidhi Institute of Science and Technology, Hyderabad, 501301, India^b Chaitanya Bharathi Institute of Technology, Gandipet, 500075, Hyderabad, India^c Department of Physics, Osmania University, University College of Science, 500 007, Hyderabad, India^d Department of Physics, JNTUHCEJ, Nachupally, Jagityal, 505501, India[View additional affiliations](#)

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Views count

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Funding details

Abstract

Structural, magnetic and ^{57}Fe Mössbauer investigations of indium (In) doped cobalt ferrite are reported. Polycrystalline $\text{CoFe}_{2-x}\text{In}_x\text{O}_4$, $x = 0, 0.2, 0.4, 0.6, 0.8$ samples are prepared by sol-gel method. In contrast to most of the literature, in the present work phase pure samples are obtained, except for x

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Reduced spin damping in inverse spinel Mn_2TiO_4 by ordered occupancy of magnetic ions

Liu, Q.-Y. , Xu, H.-H. , Liu, J. (2022) *Journal of Magnetism and Magnetic Materials*

MOFs-derived magnetic hierarchically porous CoFe_2O nanocomposite for interfacial radicals-induced catalysis to degrade chloramphenicol: Structure, performance and degradation pathway

Yang, L.-X. , Yang, J.-C.E. , Yuan, B.-L.

(2022) *Colloids and Surfaces A: Physicochemical and Engineering Aspects*

Comprehensive study of structural, physical, and spectroscopic properties of Co-Ni substituted $\text{BaMg}_2\text{Fe}_{16}\text{O}_{27}$ W-type hexaferrites

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Sumalatha, M. , Shravan kumar Reddy, S. , Reddy, M.S. (2020) *Journal of Alloys and Compounds*

Low-cost novel synthesis route to prepare cobalt ferrite based nanocrystals

Reddy, G.S. , Jagannatham, M. , Kumar, L. (2019) *Materials Research Express*

CTAB cationic surfactant assisted synthesis of CoFe_2O_4 magnetic nanoparticles

Vadivel, M. , Babu, R.R. , Ramamurthi, K.

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Materials Today: Proceedings • Volume 46, Pages 692 - 695 • 2021 • 2nd International Conference on Manufacturing Material Science and Engineering (ICMMSE 2020) • Hyderabad • 7 August 2020 through 8 August 2020 • Code 169592

Document type
Conference Paper

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Journal

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10.1016/j.matpr.2020.12.016

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A concise review on 4D printing technology

Saritha D^a, Boyina, Dhatrey^a

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^a Department of Chemistry, Chaitanya Bharathi Institute of Technology (A), Hyderabad, Telangana, 500075, India

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Biomaterials for Tissue Engineering Applications and Current Updates in the Field: A Comprehensive Review

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(2022) *AAPS PharmSciTech*

Smart biomaterials: From 3D printing to 4D bioprinting
Amukarimi, S., Rezkani, Z., Eghtesadi, N.
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Volume: 46 Page: 692-695 Special Issue: 5 Part: 3

DOI: 10.1016/j.matpr.2020.12.016

Published: 2021

Early Access: JUN 2021

Indexed: 2021-07-02

Document Type: Proceedings Paper

Conference

Meeting: 2nd International Conference on Manufacturing Material Science and Engineering (ICMMSE)

Location: Hyderabad, INDIA

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Materials Today: Proceedings • [Open Access](#) • Volume 18, Pages 2512 - 2514 • 2020 • 3rd International Conference and Exposition on Mechanical, Material and Manufacturing Technology, ICE3MT 2020 • Hyderabad • 9 October 2020 through 10 October 2020 • Code 167890

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[10.1016/j.matpr.2020.07.538](#)

Synthesis and electrochemical properties of Fe₂WO₆

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^a Department of Chemistry, Chaitanya Bharathi Institute of Technology (A), Hyderabad,

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[Revisiting the five-decade-old structure of the Fe₂WO₆ powder with incommensurate modulations](#)

Quares, E., Espinosa-Angel, J.C., Crozier, O.
(2021) *CrytEngComm*

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Volume: 38 Page: 2512-2514 Part: 5

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Published: 2021

Early Access: MAR 2021

Indexed: 2021-04-20

Document Type: Proceedings Paper

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Location: Hyderabad, INDIA

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Discovery of (±)-3-(1 H -pyrazol-1-yl)-6,7-dihydro-5 H -[1,2,4]triazolo[3,4- b][1,3,4] thiadiazine derivatives with promising in vitro anticoronavirus and antitumoral activity

Jilloju, Parameshwara Chary^a; Persoons, Leentie^b; Kurapati, Sathish Kumar^{a,d}; Schols, Dominique^b;De Jonghe, Steven^b; Daelemans, Dirk^b; Vedula, Rajeswar Rao^a ✉[Save all to author list](#)^a Department of Chemistry, National Institute of Technology, Telangana, Warangal, 506004, India^b Department of Microbiology, Immunology and Transplantation, Laboratory of Virology and Chemotherapy, KU Leuven, Rega Institute for Medical Research, Herestraat 49, Leuven, Belgium^c Department of Chemistry, National Institute of Technology, Andhra Pradesh, 534101, India^d Department of Chemistry, Chaitanya Bharati Institute of Technology, Telangana, Hyderabad, 500075, India3 94th percentile
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Recent Applications of the Multicomponent Synthesis for Bioactive Pyrazole Derivatives

Becerra, D., Abonia, R., Castillo, J.-C.
(2022) *Molecules*

Novel Dioxolane Ring Compounds for the Management of Phytopathogen Diseases as Ergosterol Biosynthesis Inhibitors: Synthesis, Biological Activities, and Molecular Docking

Min, L.-J., Wang, H., Bajsa-Hirschel, J.
(2022) *Journal of Agricultural and Food Chemistry*

Facile One-Pot Multi-Component Synthesis, Characterization, Molecular Docking Studies, Biological Evaluation of 1,2,4-Triazolo Isoindoline-1,3-Diones and Their DFT Calculations

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Kulikov, A.S., Epishina, M.A., Fershtat, L.L.
(2018) *Chemistry of Heterocyclic Compounds*

An Efficient One-Pot Synthesis of 6-Phenyl-3-(1H-Pyrazol-1-yl)-6,7-dihydro-5H-[1,2,4]triazolo[3,4-b][1,3,4]thiadiazine Derivatives and Their Antimicrobial Evaluation and Molecular Docking Studies

Jilloju, P.C., Shyam, P., Raju, C.
(2022) *Polycyclic Aromatic Compounds*

Vision on Synthetic and Medicinal Facets of 1,2,4-Triazolo[3,4-b][1,3,4]thiadiazine Scaffold

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Article

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Journal

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26884534

DOI

10.1002/htj.22118

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Impact of Soret and Dufour on bioconvective flow of nanofluid in porous square cavity

Balla, Chandra Shekar^a; Ramesh, Alluguvelli^b; Kishan, Naikoti^c; Rashad, Ahmed Mohamed^d [✉](#)[Save all to author list](#)^a Department of Mathematics, Chaitanya Bharathi Institute of Technology, Gandipet, Telangana, India^b Department of Mathematics, Geethanjali College of Engineering & Technology, Hyderabad, Telangana, India^c Department of Mathematics, Osmania University, Hyderabad, Telangana, India^d Department of Mathematics, Faculty of Science, Aswan University, Aswan, Egypt7 84th percentile
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This article addresses the bioconvection in a porous cavity associated with Soret and Dufour effects. The bioconvective flow in a porous medium is based on Hillesdon and Pedley's model and is governed by nonlinear partial differential equations. These equations are transformed into a dimensionless form with suitable nondimensional parameters. The finite element method is employed to solve the dimensionless equations. The outcomes of the study are presented by streamlines, temperature

Cited by 7 documents

Stability analysis of double diffusive thermo-bioconvection in aerobic-microorganism-suspended Casson nanofluid

Sanjalee , Sharma, Y.D. , Yadav, O.P.

(2022) *European Physical Journal Plus*

Insight into the dynamics of micropolar fluid about a vertical cone when nonlinear thermal radiation is significant: The case of triple mixed convection

Patil, P.M. , Shankar, H.F.

(2022) *Heat Transfer*

A critical review of heat transfer enhancement methods in the presence of porous media, nanofluids, and microorganisms

Habibishandiz, M. , Saghir, M.Z.

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(2020) *International Journal of Numerical Methods for Heat and Fluid Flow*

Effect of chemical reaction on bioconvective flow in oxytactic microorganisms suspended porous cavity

Balla, C.S. , Alluguvelli, R. , Naikoti, K.

(2020) *Journal of Applied and Computational Mechanics*

ACTIVATION ENERGY PROCESS IN BIOCONVECTION NANOFUID FLOW THROUGH POROUS CAVITY

Bodduna, J. , Mallesh, M.P. , Balla, C.S.

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Article • Gold Open Access

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Journal

ISSN

17344492

DOI

10.2478/ijame-2020-0052

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The Effect of Modulation on Heat Transport by a Weakly Nonlinear Thermal Instability in the Presence of Applied Magnetic Field and Internal Heating

Manjula S.H.^a ; Kiran, Palle^b ; Narsimlu G.^b ; Roslan R.^c

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^a Division of Mathematics, Vignan's Foundation for Science, Technology and Research, Guntur, Andhra Pradesh, 522213, India

^b Department of Mathematics, Chaitanya Bharathi Institute of Technology, Hyderabad, Telangana, 500075, India

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The present paper deals with a weakly nonlinear stability problem under an imposed time-periodic thermal modulation. The temperature has two parts: A constant part and an externally imposed time-dependent part. We focus on stationary convection using the slow time scale and quantify convective

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A numerical technique and effect of magnetic field dependent (MFD) viscosity on thermal instability in a ferrofluid pores with Coriolis force for Darcy model

Murugan, D. , Sekar, R.
(2022) *World Journal of Engineering*

The effect of thermal modulation on double diffusive convection in the presence of applied magnetic field and internal heat source

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The effect of gravity driven thermal instability in the presence of applied magnetic field and internal heating

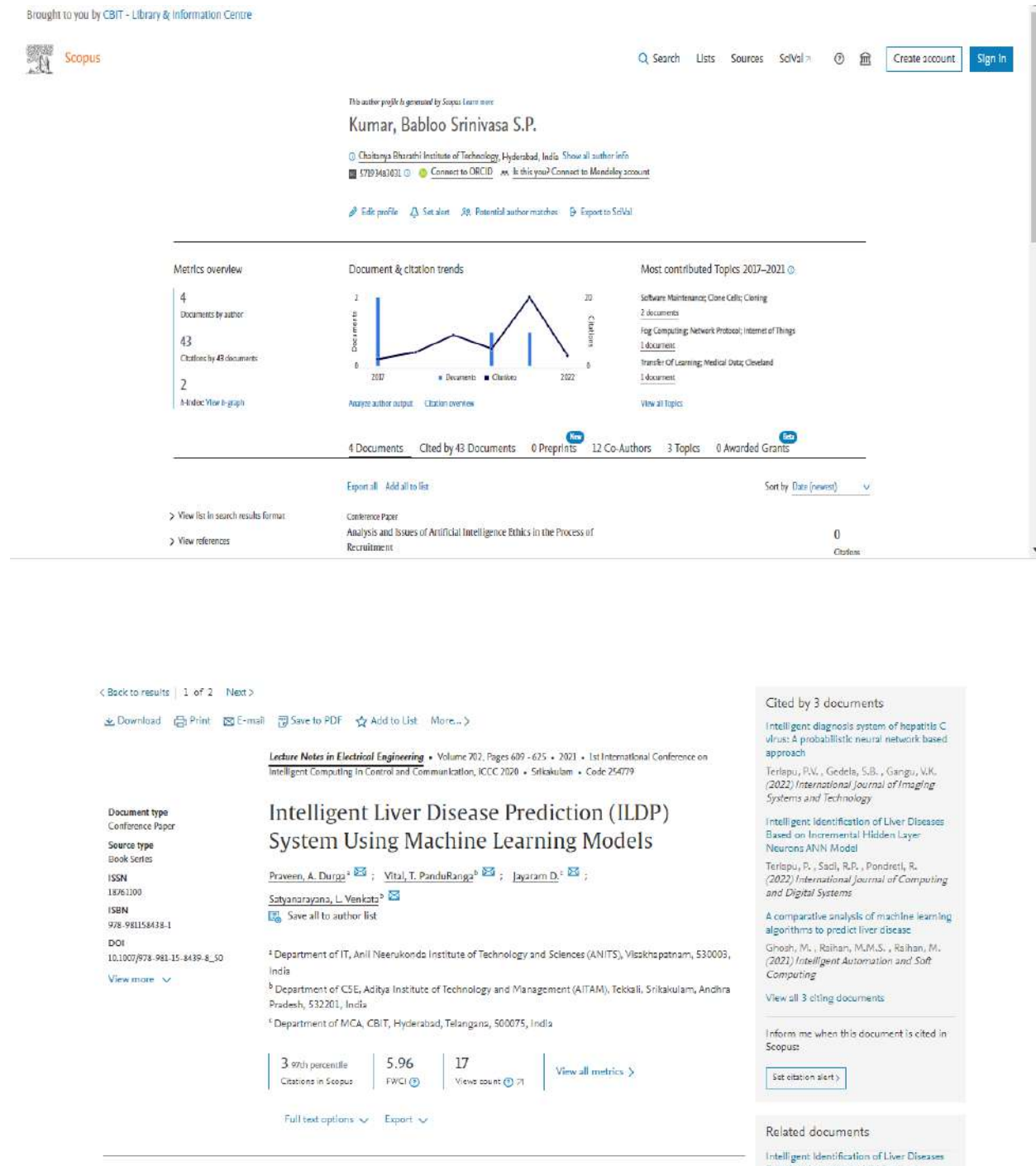
Manjula, S.H. , Kiran, P. , Narayanamoorthy, S.
(2020) *AIP Conference Proceedings*

The Complex Ginzburg Landau Model for an Oscillatory Convection in a Rotating Fluid Layer

Manjula, S.H. , Kiran, P. , Reddy, P.R.
(2020) *International Journal of Applied Mechanics and Engineering*

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Journal
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2193567X
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10.1007/s13369-020-05086-7
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Arabian Journal for Science and Engineering • Volume 45, Issue 4, Pages 3383 - 3407 • April 2021

Probabilistic Neural Network-based Model for Identification of Parkinson's Disease by using Voice Profile and Personal Data

Vital, T. Pandu Ranga¹ ; Nayak, Janmenjoy² ;

Naik, Bighnara³ ; Jayaram D.⁴

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¹ Department of Computer Science Engineering, Aditya Institute of Technology and Management (AITAM), Tekkali, 532201, Andhra Pradesh, India

² Department of Computer Science Applications, Veer Surendra Sai University of Technology, Burla, 768018, Odisha, India

⁴ Department of MCA, Chaitanya Bharathi Institute of Technology (CBIT), Gandipet, Hyderabad, Telengana, India

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Tanveer, M., Kaur, H., Thomas, G., Mahmood, H., Paruthi, M., Yu, Z.

Mobile phone buying decisions among young adults: An empirical study of influencing factors
(2021) *Sustainability (Switzerland)*, 13 (19), art. no. 10705, . Cited 4 times.

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Mobile Phone Buying Decisions among Young Adults: An Empirical Study of Influencing Factors

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Volume: 13 **Issue:** 19

Article Number: 10705

DOI: 10.3390/su131910705

Published: OCT 2021

Indexed: 2021-10-27

Document Type: Article

Abstract

Owing to the novelty and dynamism of mobile phone shopping behavior of adults within the context of contemporary social, technological, and market norms necessitated the need to study this phenomenon frequently. In the same league, there is a pressing need to empirically examine the mobile shopping behavior of young adults in Pakistan. This paper examines the factors influencing mobile phone shopping behavior within the context of young adults in Pakistan. First, a questionnaire-based survey consisting of a five-point Likert scale was conducted. A total of 416 respondents provided their complete responses. Then, we employed the structural equation modeling (SEM) model using AMOS 24 to empirically test the hypothesized model. The empirical results revealed that price and attractiveness positively influence mobile phone buying behavior among young adults in Pakistan. On the other hand, Service Encounter, Convenience, Avoidance of Core Service Failure, and Response have negative but statistically insignificant influences on mobile phone buying behavior in Pakistan. This finding revealed that

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Kumar, P., Paul, A., Anil Kumar, M.

Risk optimisation analytics: A case study on Brown Research Associates India (BRAI)
(2021) *International Journal of Social Ecology and Sustainable Development*, 12 (2), pp. 48-62.

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(2020) *Materials Today: Proceedings*, 27, pp. 1522-1529. Cited 2 times.

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(2020) *Advances in Materials and Processing Technologies*, . Cited 1 time.

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ISBN

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10.1007/978-981-15-1124-0_19

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A Comparative Study on Performance of 3D-Printed EDM Electrode with Conventional EDM Electrode

Mahipal Reddy L.^a ; Siva Rama Krishna L.^a ; Sharath Kumar S.^a ; Ravinder Reddy P.^b

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^a Department of Mechanical Engineering, UCE (A), Osmania University, Hyderabad, India^b Chaitanya Bharathi Institute of Technology, Hyderabad, India

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Performance study of EDM process parameters using TiC/ZrSiO₄ particulate-reinforced copper composite electrode

Saminatharaja, D. , Periyakgounder, S. , Selvaraj, M. (2021) *Strojniski Vestnik/Journal of Mechanical Engineering*

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Mohanty, S.D. , Mahapatra, S.S. , Mohanty, R.C. (2021) *Lecture Notes in Mechanical Engineering*

A Perceptive Approach for Multi-objective Optimization of Die-Sinking EDM Process Parameters with Utility Concept and Taguchi Method for Sustainable Machining

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Conference Paper

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Journal

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10.1016/j.matpr.2020.07.357

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Comparative analysis of the orientation dependent tensile deformation of commercially pure titanium and titanium alloy OT 4-1

Vemula, Ananda Mohan^a ; Reddy, G. Chandra Mohan^b; Hussain, M. Manzoor^a

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^a Department of Mechanical Engineering, Jawaharlal Nehru Technological University, Hyderabad, Telangana State, India

^b Department of Mechanical Engineering, Chaitanya Bharathi Institute of Technology, Hyderabad, Telangana, India

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Effect of Heat Treatment on the Mechanical Properties of a 3 mm Commercially Pure Titanium Plate (CP-Ti Grade 2)

Mpumlwana, D. , Msomi, V. ,
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(2021) *Journal of Engineering (United Kingdom)*

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(2015) *TMS Annual Meeting*

Structure and properties of titanium for dental implants

Greger, M. , Kander, L. , Mašek, V.
(2011) *NANOCON 2011 - Conference Proceedings, 3rd International Conference*

Effective two-step method for producing Ti-6Al-4V alloy particles with various morphologies

Nersisyan, H.H. , Won, H.I. ,
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(2014) *Powder Technology*

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Article

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Journal

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22496890

DOI

10.24247/ijmperdapr2020100

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Butanol blend reduces pollutants in spark ignition engine

[Mohanti, Ipsita^a](#); [Krishna, M. V. S. Murali^a](#); [Chandra, M. Ravi^b](#) [Save all to author list](#)^a Department of Mechanical Engineering, Chaitanya Bharathi Institute of Technology, Gandipet, Hyderabad, Telangana, India^b Department of Mechanical Engineering, Gayatri Vidyaparishad College of Engineering, Madhurawada, Visakhapatnam, Andhra Pradesh, India1 33th percentile
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Tests were taken to determine exhaust emissions of a petrol engine having cuprum sprayed engine [CuE, Cuprum of thick, 0.3 mm) sprayed on the top portion of the piston and interior portion of cylinder head] coupled with catalytic converter (CC) with iron of sponge as oxidizer with two fuels of petrol and petroleum mixed with butanol (85% petrol and 15% butanol by V) and correlated with data of standard engine (SE) with operation of petrol. The effects of variables of engine with variety

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An Experimental Study on Combustion and Cycle-by-Cycle Variations of an N-Butanol Engine with Hydrogen Direct Injection under Lean Burn Conditions

Shang, W. , Yu, X. , Shi, W. (2022) *Sensors*

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Comparative studies on Performance evaluation of a two stroke copper coated spark ignition engine with alcohols with catalytic converter

Murali Krishna, M.V.S. , Kishor, K. , Murthy, P.V.K. (2012) *Renewable and Sustainable Energy Reviews*

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10.1007/s13369-019-04263-1

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Selective Laser Melting of Single Track on Ti-6Al-4V Powder: Experimentation and Finite Element Analysis

[Hussain, Manowar^a](#); [Gupta, Pranshu^b](#) ; [Kumar P.^d](#); [Das A.K.^c](#)
[Save all to author list](#)^a Department of Mechanical Engineering, CBIT, Gandipet, Hyderabad, 500075, Telangana, India^b Department of Mechanical Engineering, Indian Institute of Technology (ISM), Dhanbad, 826004, Jharkhand, India^c Indian Institute of Technology (ISM) Dhanbad, Dhanbad, 826004, Jharkhand, India^d S R Engineering College, Warangal, 506371, Telangana, India
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Qu, Y. , Luo, Z. , Dong, X.
(2022) *Metal Science and Heat Treatment*

Experimental Investigation and Comparative Study of Sintering of Microcrystalline Nickel Using Microwave and Conventional Method

Hussain, M.I. , Hussain, M. , Gupta, A.
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3-Dimensional finite element modeling of selective laser melting Ti-6Al-4V alloy

Fu, C.H. , Guo, Y.B.
(2014) *25th Annual International Solid Freeform Fabrication Symposium � Additive Manufacturing Conference, SFF 2014*

Three-Dimensional Temperature Gradient Mechanism in Selective Laser Melting of Ti-6Al-4V

Fu, C.H. , Guo, Y.B.
(2014) *Journal of Manufacturing Science and Engineering, Transactions of the ASME*

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Advances in Intelligent Systems and Computing • Volume 979, Pages 449 - 456 • 2020 • International Conference on Numerical Optimization in Engineering and Sciences, NOIEAS 2019 • Warangal • 19 June 2019 through 21 June 2019 • Code 239779

Document type

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ISSN

21945357

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10.1007/978-981-15-3215-3_44

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Optimization of Micro-electro Discharge Drilling Parameters of Ti6Al4V Using Response Surface Methodology and Genetic Algorithm

[Kumar, Pankaj^a](#) ; [Hussain, Manowar^b](#)

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^a Department of Mechanical Engineering, Centre for Materials and Manufacturing, S R Engineering College, Warangal, India

^b Department of Mechanical Engineering, CBIT, Gandipet, Hyderabad, 500075, Telangana, India

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Influence of process parameters on the surface integrity of micro-holes of SS304 obtained by micro-EDM

Das, A.K. , Kumar, P. , Sethi, A. (2016) *Journal of the Brazilian Society of Mechanical Sciences and Engineering*

Effects of Micro-EDM Parameters on the Surface Integrity of the Micro-Holes Fabricated on Nickel Sheet

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Prediction and comparison of the dilution and heat affected zone in submerged arc welding (SAW) of low carbon alloy steel joints

By: Sailender, Mamunuri (Sailender, Mamunuri) ; Suresh, R. (Suresh, R.) ; Reddy, G. Chandramohan (Reddy, G. Chandramohan) ; Venkatesh, Sriram (Venkatesh, Sriram)

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MEASUREMENT

Volume: 150

Article Number: 107084

DOI: 10.1016/j.measurement.2019.107084

Published: JAN 2020

Indexed: 2019-11-04

Document Type: Article

Abstract

The present investigation has been made to realize the effect of submerged arc welding (SAW) process parameters in 'Purging' condition and has been compared to the traditional 'as weld' condition. It uses open-circuit-voltage (OCV), wire-feed-rate (WFR), welding-speed (WS) and nozzle-to-plate distance (NPD) as process parameters. The design of experiments is utilized to carryout efficient experimentation and multiple regression analysis is to build mathematical models to foresee responses like dilution and heat affected zone. The performance evaluation of control levels, which has been shown through the S/N ratio, its significance, along contributions is computed via ANOVA. The models are developed to build correlation among the parameters. The Grey Relational Analysis (GRA) is to normalize and optimize the results. These developed models are adequate; GRA responses are agreeable and are found to be within limits through confirmation tests. Results indicate that the best combination for Heat Affected Zone (HAZ) minimization is lower level of OCV and higher levels of WFR, WS and NPD; High dilution, in percentage, in both welding conditions. The Purging condition values

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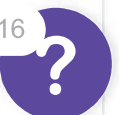
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Critical elements based optimal pmu placement considering substation coverage

Babu, N. V. Phanendra^a  ; Babu, P. Suresh^b  ;

Sarma, D. V. S. S. Siva^b 

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^a Dept. of EEE, CBIT Hyderabad, India

^b Dept. of Electrical Engineering, NIT Warangal, India

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Performance of BLDC Motor for Enhancing the Response of Antenna's Positioner Using PI Controller

Suresh Kumar, Bhaskaruni^a  ; Varun Raj D.^b  ; Praveena, Segu^c 

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^a Associate Professor, CBIT, Gandipet, Hyderabad, India

^b PG Scholar, CBIT, Gandipet, Hyderabad, India

^c Asst. Professor, MGIT, Gandipet, Hyderabad, India

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Control and state of charge balancing algorithm for modular multilevel STATCOM with distributed ultracapacitor-based energy storage system at the DC link

Bharadwaj, Anil^a  ; Maiti, Suman^b

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^a Department of Electrical and Electronics Engineering, Chaitanya Bharathi Institute of Technology (A), Hyderabad, India

^b Department of Electrical Engineering, Indian Institute of Technology Kharagpur, Kharagpur, India

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A Novel Technique to Observe the Performance of Virtual Solar PV Module System

Suresh Babu, G., Sai Varun, N.R.

Lecture Notes in Electrical Engineering, 2020, 626, pp. 653–660

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Abstract

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Peer review

Publication History

 2021 in IEEE Transactions on Emerging
Topics in Computational Intelligence

HAR-Depth: A Novel Framework for Human Action Recognition Using Sequential Learning and Depth Estimated History Images

Published in IEEE Transactions on Emerging Topics in Computational Intelligence in October, 2021

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ABSTRACT

Human action recognition (HAR) is a challenging task due to the presence of the pose and temporal variations in the action videos. To address these challenges, HAR-Depth is proposed in this paper with sequential and shape learning along with the novel concept of depth history image (DHI). A deep bidirectional recurrent neural network (DBRNN) is proposed to learn the sequential information and the shape information of the action videos. The DBRNN is trained on the HMDB51 dataset. The experimental results show that the proposed HAR-Depth framework achieves the state-of-the-art performance on the HMDB51 dataset.

AUTHORS

Sahoo, Suraj Prakash; Ari, Samit; Mahapatra, Kamalakanta; Mohanty, Sangram

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☐ 1	HAR-Depth: A Novel Framework for Human Action Recognition Using Sequential Learning and Depth Estimated History Images	Sahoo, S.P., Ari, S., Mahapatra, K., Mohanty, S.P.	2021	IEEE Transactions on Emerging Topics in Computational Intelligence 5(5), pp. 813-825	0
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2 Smart water quality monitoring system with cost-effective using IoT <i>Open Access</i> View abstract ▼View at PublisherRelated documents	Pasika, S., Gandla, S.T.	2020	Heliyon 6(7),e04096	34	
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5 Static, portable and smart detection of water quality in panchayath distribution tank <i>Open Access</i> View abstract ▼View at PublisherRelated documents	Jeya Daisy, I., Vinoth Kumar, B.	2019	International Journal of Recent Technology and Engineering 8(2 Special issue 5), pp. 103-108	0	



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- pubmed.ncbi.nlm.nih.gov/32642574

NAVIGATE

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- Publication History
 - Jul 2020 in Heliyon

Smart water quality monitoring system with cost-effective using IoT

Published in Heliyon on July 01, 2020

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ABSTRACT

Wireless communication developments are creating new sensor capabilities. The current developments in the field of sensor networks are critical for environmental applications. Internet of Things (IoT) allows connections among various devices with the ability to exchange and gather data. IoT also

AUTHORS

Pasika, Sathish; Gandla, Sai Teja

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Comparative analysis of texture patterns on mammograms for classification

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Darapureddy, N., Karatapu, N., Battula, T.K.

2021Traitements du Signal 38(2), pp. 379-3860

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Density map and fuzzy classification for breast density by using BI-RADS

Valencia-Hernandez, I., Peregrina-Barreto, H., Reyes-Garcia, C.A., Lopez-Armas, G.C.

2021Computer Methods and Programs in Biomedicine 200,1058252

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Robust Texture Features for Breast Density Classification in Mammograms

Li, H., Mukundan, R., Boyd, S.

202016th IEEE International Conference on Control, Automation, Robotics and Vision, ICARCV 2020 9305431, pp. 454-4593

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Integrative blockwise sparse analysis for tissue characterization and classification

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Zheng, K., Harris, C.E., Jennane, R., Makrogiannis, S.

2020Artificial Intelligence in Medicine 107,1018854

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Automated pectoral muscle identification on MLO-view mammograms: Comparison of deep neural network to conventional computer vision

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Ma, X., Wei, J., Zhou, C., (...), Hadjiiski, L.M., Lu, Y.

2019Medical Physics 46(5), pp. 2103-21147

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 - Apr 2021 in Traitement du Signal

Comparative Analysis of Texture Patterns on Mammograms for Classification

Published in [Traitement du Signal](#) on April 30, 2021

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ABSTRACT

Breast cancer is a cancerous tumor that arrives within the tissues of the breast. Women are mostly attacked than men. To detect early cancer medical specialists, suggest mammography for screening. Algorithms in Machine learning were executed on mammogram images to classify whether the

AUTHORS

Darapureddy, Nagadevi; Karatapu, Nagaprakash; Battula, Tirumala Krishna

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☐ 1	Optimal weighted hybrid pattern for content based medical image retrieval using modified spider monkey optimization	Darapureddy, N., Karatapu, N., Battula, T.K.	2021	International Journal of Imaging Systems and Technology 31(2), pp. 828-853	2
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☐ 2	Hybrid tile based feature extraction and support vector machine base content-based image retrieval system for medical application <i>Open Access</i>	Malathy, M., Rajinikanth, C., Mohan, V., Yuvaraja, T.	2019	International Journal of Recent Technology and Engineering 8(3), pp. 3305-3310	1
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☐ 1	A Sturdy Nonlinear Hyperspectral Unmixing	Venkata Sireesha, M., Naganjaneyulu, P.V., Babulu, K.	2020	IETE Journal of Research	1
				Article in Press	
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☐ 2	A sturdy nonlinear hyperspectral unmixing algorithm using iterative block- coordinate descent algorithm	Sireesha, M.V., Naganjaneyulu, P.V., Babulu, K.	2019	International Journal of Intelligent Engineering and Systems	2
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- Publication History
 - 2020 in IETE Journal of Research

A Sturdy Nonlinear Hyperspectral Unmixing

Published in IETE Journal of Research on November 10, 2020

WEB OF SCIENCE (FREE ACCESS)

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ABSTRACT

Hyperspectral unmixing (HSU) is a way to process the prediction of the existing endmembers and the fractional abundances (FA) available in all pixels in the hyperspectral images. However, in a practical scenario, hyperspectral image is frequently corrupted due to many types of noises at the time of

AUTHORS

Venkata Sireesha, M.; Naganjaneyulu, P. V.; Babulu, K.

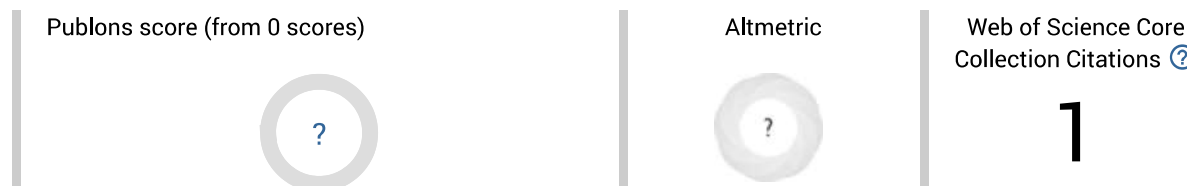
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Prasuna, P.M., Ramadevi, Y., Babu, A.V.

A distributed environment with rough set theory based image processing approach for analysis of facial disorders for better cosmetic product recommendation
(2020) *International Journal of Safety and Security Engineering*, 10 (6), pp. 777-784.

2-s2.0-85099128011

Document Type: Article

Publication Stage: Final

Source: Scopus

Documents

Gupta, S., Godavarti, R.

IoT data management using cloud computing and big data technologies

(2020) *International Journal of Software Innovation*, 8 (4), pp. 50-58. Cited 8 times.

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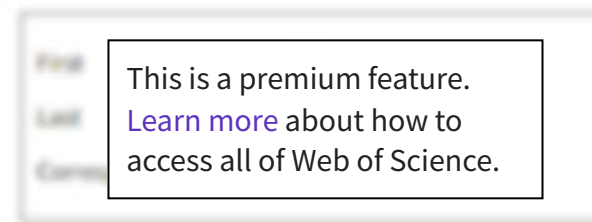
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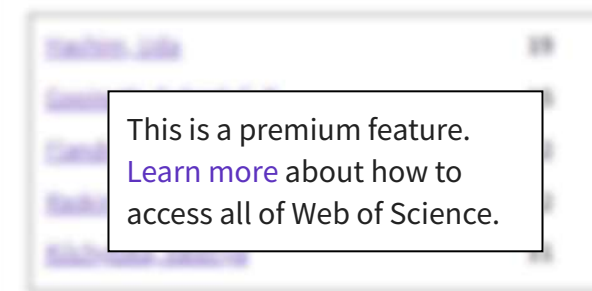
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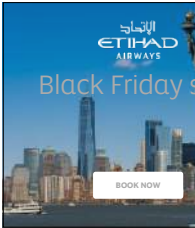
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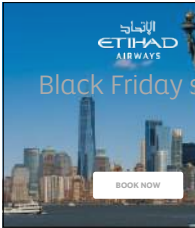
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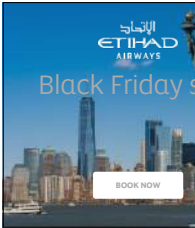
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Bodapati, S.^a, Bandarupally, H.^b, Trupthi, M.^c

COVID-19 Time Series Forecasting of Daily Cases, Deaths Caused and Recovered Cases using Long Short Term Memory Networks

(2020) *2020 IEEE 5th International Conference on Computing Communication and Automation, ICCCA 2020*, art. no. 9250863, pp. 525-530. Cited 14 times.

DOI: 10.1109/ICCCA49541.2020.9250863

^a Jp Morgan Chase Co., Hyderabad, India

^b Chaitanya Bharathi Institute of Technology Hyderabad, Computer Science and Engineering, India

^c Chaitanya Bharathi Institute of Technology, Information Technology, Hyderabad, India

Abstract

Novel Coronavirus (COVID-19) outbreak that emerged originally in Wuhan, the Hubei province of China has put the entire human race at risk. This virus was declared as Pandemic on 11th March 2020. Considering the massive growth rate in the number of cases and highly contagious nature of the virus, machine learning prediction models and algorithms are essential to predict the number of cases in the coming days. This could help in reducing the stress on health care systems and administrations by helping them plan better. In this paper the datasets used are obtained from the John Hopkins University's publicly available datasets to develop a state-of-the-art forecasting model of COVID-19 outbreak. We have incorporated data-driven estimations and time series analysis to predict the trends in coming days such as the number of cases confirmed positive, number of deaths caused by the virus and number of people recovered from the novel coronavirus. To achieve the estimations, we have used the Deep learning model long-shortterm memory network (LSTM). © 2020 IEEE.

Author Keywords

Artificial Neural Networks; Corona-virus; COVID-19; Deep learning; Long-Short-Term Memory (LSTMs); Pandemic

Index Keywords

Deep learning, Forecasting, Learning systems, Predictive analytics, Time series analysis, Viruses; Forecasting modeling, Health-care system, John Hopkins University, Number of peoples, Prediction model, Short term memory, State of the art, Time series forecasting; Long short-term memory

Publisher: Institute of Electrical and Electronics Engineers Inc.

2-s2.0-85097655894

Document Type: Conference Paper

Publication Stage: Final

Source: Scopus

Documents

Lakshmi Harika, G.^a, Chowdary, H.^a, Satya Kiranmai, T.^b

Cloud-based Internet of things for smart water consumption monitoring system

(2020) *Proceedings of the 5th International Conference on Communication and Electronics Systems, ICCES 2020*, art. no. 09138074, pp. 967-972. Cited 1 time.

DOI: 10.1109/ICCES48766.2020.09138074

^a Department of Information Technology, Chaitanya Bharathi Institute of Technology, Hyderabad, Telangana, India

^b Department of IT, Chaitanya Bharathi Institute of Technology, Hyderabad, Telangana, India

Abstract

The levels at which groundwater is depleting around the world is alarming and there is an impending necessity to be judicious with water usage. This led to the formulation of a consolidated architecture to monitor water consumption at the household level. Internet of Things (IoT) is combined with the Thingspeak Cloud Computing platform and Android Studio to facilitate an efficient dashboard for consumers. The proposed model aims at imbuing a sense of responsibility in the citizens as it helps keep a track of water usage periodically using visually appealing charts, lays down the monthly water utility costs as well as provides tips with all in the form of a compact android application in their phones that is needed to be proactive and conserve resources. This paper presents a tested prototype and the pipeline connecting the hardware and software components responsible for streamlining the process of data transfer from IoT to cloud and from cloud to the android application. An overview of the promising technologies and frameworks that have been orchestrated in the development of the system as well as results obtained are thus provided. © 2020 IEEE.

Author Keywords

Android Studio; Internet of Things(IoT); Thingspeak Cloud; Water Consumption Monitoring System

Index Keywords

Android (operating system), Application programs, Data transfer, Groundwater, Software testing, Water supply; Android applications, Cloud computing platforms, Conserve resources, Consolidated architecture, Hardware and software components, Internet of Things (IOT), Monitoring system, Water consumption; Internet of things

Publisher: Institute of Electrical and Electronics Engineers Inc.

2-s2.0-85091340075

Document Type: Conference Paper

Publication Stage: Final

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Documents

Kunta, V., Tuniki, C., Sairam, U.

Multi-functional blind stick for visually impaired people

(2020) *Proceedings of the 5th International Conference on Communication and Electronics Systems, ICCES 2020*, art. no. 09137870, pp. 895-899. Cited 11 times.

DOI: 10.1109/ICCES48766.2020.09137870

Dept. of Information Technology, Chaitanya Bharathi Institute of Technology, Hyderabad, India

Abstract

One of the biggest problems faced by the visually impaired is navigating from place to place, be it indoors or outdoors. Further, the adverse conditions of the roads make it even more difficult for them to walk outdoors. They have to be alert at all times to avoid consequences like colliding with stable or moving obstacles, ascending or descending staircases, slipping down wet terrain. Also, at times they may be in distress and might want to send an alert message to their relatives or friends about their whereabouts. These problems of blind people can be addressed with the intervention of technology. The proposed solution employs the Internet of Things (IoT) paradigm to provide a medium between the blind and the environment. Several sensors can be used to detect anomalies like obstacles, staircases and wet terrains respectively. The prototype discussed here is a simple, sophisticated and affordable smart blind stick equipped with various IoT sensors and modules. Also, this solution provides a way to send a message about the whereabouts of the user to the concerned people. Adding to the above, a software application is designed to help the acquaintances of the blind to manage the stick's configuration ex: add or delete phone numbers to which alert messages have to be sent. Misplacing the stick indoors can also be a substantial issue. This solution also addresses this problem. © 2020 IEEE.

Author Keywords

Alert messages; Finding misplaced stick; Obstacle detection; Smart blind stick using IoT; Wet terrain detection

Index Keywords

Application programs, Stairs; Blind people, Internet of thing (IOT), Moving obstacles, Multi-functional, Phone number, Software applications, Visually impaired, Visually impaired people; Internet of things

Publisher: Institute of Electrical and Electronics Engineers Inc.

2-s2.0-85091338708

Document Type: Conference Paper

Publication Stage: Final

Source: Scopus

Documents

Adepu, Y., Boga, V.R., Sairam, U.

Interviewee Performance Analyzer Using Facial Emotion Recognition and Speech Fluency Recognition
(2020) *2020 IEEE International Conference for Innovation in Technology, INOCON 2020*, art. no. 9298427, . Cited 3 times.

DOI: 10.1109/INOCON50539.2020.9298427

Chaitanya Bharathi Institute of Technology, Department of Information Technology, Hyderabad, India

Abstract

Analysis of the performance of an interviewee is a complex and challenging task. Our proposed system automates this process by building two multiclass classification models. Video captured during an interview is given to the proposed system which extracts frames and Audio from it. Frames are given to the first model which is a facial emotion recognition model it uses HaarCascade classifier, Gabor filters, and Convolution Neural Network for classification of facial emotion as one of these seven emotions like Happy, surprise, angry, disgust, neutral, fear, sadness. Audio is given to the second model which uses Mel frequency cepstral coefficient features and logistic regression for speech classification as four classes Fluent, Stuttering, Cluttering, and Pauses. Predictions of these two models can be combined to give a performance rating for the interviewee. Compared to only CNN based and Deep Neural Network based facial emotion recognition, the Gabor Filter based approach which we have used gave better accuracy with a smaller number of hidden layers and less training time. © 2020 IEEE.

Author Keywords

Convolution Neural Networks; Deep Neural Networks; Gabor Filters; HaarCascade Classifier; Logistic Regression; Mel Frequency Cepstral Coefficients

Index Keywords

Classification (of information), Deep neural networks, Engineering research, Face recognition, Gabor filters, Logistic regression, Multilayer neural networks; Convolution neural network, Facial emotions, Hidden layers, Mel frequency cepstral co-efficient, Multi-class classification, Performance ratings, Speech classification, Training time; Speech recognition

Publisher: Institute of Electrical and Electronics Engineers Inc.

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Document Type: Conference Paper

Publication Stage: Final

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Documents

Hyndavi, V., Sai Nikhita, N., Rakesh, S.

Smart wearable device for women safety using IoT

(2020) *Proceedings of the 5th International Conference on Communication and Electronics Systems, ICCES 2020*, art. no. 09138047, pp. 459-463. Cited 13 times.

DOI: 10.1109/ICCES48766.2020.09138047

Department of Information Technology, Chaitanya Bharathi Institute of Technology, Hyderabad, India

Abstract

The crimes against women have been rising significantly and often hear about molestation, eve-teasing and rape cases in the public places of the society. The security of women is the most important concern these days and to build a safety device to act as a rescue and to prevent from harm at the time of hazard is highly necessary especially for women. In this paper, a smart device for women's safety which automates the emergency alert system by using pressure sensor, pulse-rate sensor and temperature sensor to detect a possible atrocity automatically using outlier detection is proposed. This system detects and sends the alerts for the dear ones with the location coordinates of the women without the requirement of her interaction in critical times. It sends an emergency message automatically to the relatives and nearby police station. © 2020 IEEE.

Author Keywords

GPS; GSM; Internet of Things (IoT); Pressure sensor; Pulse-rate sensor; Smart Device; Temperature sensor; Women Safety

Index Keywords

Wearable sensors; Emergency alert system, Emergency messages, Police station, Public places, Pulse rate, Smart devices, Smart wearables; Internet of things

Publisher: Institute of Electrical and Electronics Engineers Inc.

2-s2.0-85091333814

Document Type: Conference Paper

Publication Stage: Final

Source: Scopus

Documents

Balusu, N.^a, Pabboju, S.^b, Narsimha G.^c

Swarm optimization based gravitational search approach for channel assignment in MCMR wireless MESH network (2020) *International Journal of Computer Networks and Communications*, 12 (3), pp. 41-54. Cited 1 time.

DOI: 10.5121/ijcnc.2020.12303

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^c Department of Computer Science, JNTUH College of Engineering, Hyderabad, Telangana, India

Abstract

Wireless Mesh Networks offers cost-efficient and higher network efficiency by utilizing multiple channels multiple radio(MCMR) nodes. Also addition, the amalgamation of multiple radio nodes and multiple hops mesh framework tends to overcome the limitation of single radio networks like the ability to achieve the rising accessible system bandwidth. In spite of these benefits, certain MCMR wireless mesh networks still suffer from performance issues like network connectivity, network throughput degradation whenever network size increases. Thus, an effective channel assignment (CA) approach could minimize the number of interference co-channels and enhance the throughput of the network. Thus, a hybridized form of gravitational search approach and particle swarm optimization is presented in this paper to resolve the issue of CA. The velocity and position updates of PSO are merged with the GSA operations to obtain the best channel with good connectivity. This approach maximizes the capability of exploration and exploitation for global and local searches using PSO and GSA operations. The goal of this methodology is the minimization of a number of interfering links and the maximization of network connectivity and throughput. The experimental results for this approach are carried out using NS2 and compared with previously suggested heuristic optimization algorithms such as Learning Automated and Genetic Algorithm Approach, Improved Gravitational Search Approach and Dynamic particle swarm optimization Approach. The simulation outcome showed a better performance of the suggested methodology compared to existing methodologies. © 2020, Academy and Industry Research Collaboration Center (AIRCC).

Author Keywords

Channel assignment; Gravitational search algorithm; Multi-channel multi-radio; Particle swarm optimization; Wireless mesh network

Publisher: Academy and Industry Research Collaboration Center (AIRCC)

2-s2.0-85088841137

Document Type: Article

Publication Stage: Final

Source: Scopus

Documents

Prathi, J.K., Raparathi, P.K., Gopalachari, M.V.

Real-Time Aspect-Based Sentiment Analysis on Consumer Reviews

(2020) *Advances in Intelligent Systems and Computing*, 1079, pp. 801-810. Cited 1 time.

DOI: 10.1007/978-981-15-1097-7_67

Department of CSE, Chaitanya Bharathi Institute of Technology, Hyderabad, India

Abstract

The rise of e-commerce websites, as new shopping channels, led to an upsurge of review sites for a wide range of services and products. This provides an opportunity to use aspect-based sentiment analysis and mine opinions expressed from text which can help consumers decide what to purchase and businesses to better monitor their reputation and understand the needs of the market. Aspect-based sentiment analysis (ABSA) is a technique aimed to foster research beyond sentence or text-level sentiment classification. The goal is to identify opinions expressed about specific entities (e.g., laptops) and their aspects (e.g., price, performance, build quality, etc.). There exist very few techniques which can generate such results based on customer ratings, however usually for a limited set of pre-defined aspects and not from free-text reviews. The other challenge in this process is cold start problem because of the lack of enough review data for a product. In this paper, a methodology is proposed to automatically compute sentiments of dynamic aspects from user-generated reviews from the web scraping from multiple sources to overcome the cold start problem. Therefore, this methodology is devising a better solution for understanding sentiments in e-commerce than existing methods. © Springer Nature Singapore Pte Ltd 2020.

Author Keywords

Aspect-based sentiment analysis; Cold start; Data integration; Web scraping

Index Keywords

Electronic commerce, Sentiment analysis, Starting; Cold start, Cold start problems, Consumer reviews, E-commerce websites, Multiple source, Real time aspects, Sentiment classification, Web scrapings; Data integration

Publisher: Springer

2-s2.0-85078472821

Document Type: Conference Paper

Publication Stage: Final

Source: Scopus

Documents

Bodapati, S., Reddy, S., Katta, S.

Realistic handwriting generation using recurrent neural networks and long short-term networks
(2020) *Advances in Intelligent Systems and Computing*, 1090, pp. 651-661. Cited 1 time.

DOI: 10.1007/978-981-15-1480-7_55

Department of Information Technology, Chaitanya Bharathi Institute of Technology, Hyderabad, India

Abstract

Generating human-like handwriting by machine from an input text given by the user may seem as an easy task but is very complex in reality. It might not be possible for every human being to write in perfect cursive handwriting because each letter in cursive gets shaped differently depending on what letters surround it, and everyone has a different style of writing. This makes it very difficult to mimic a person's cursive style handwriting with the help of a machine or even by hand for a matter of fact. This is why signing names in cursive is preferable on any legal documents. In this paper, we will try to use various deep learning methods to generate human-like handwriting. Algorithms using neural networks enable us to achieve this task, and hence, recurrent neural networks (RNN) have been utilized with the aim of generating human-like handwriting. We will discuss the generation of realistic handwriting from the IAM Handwriting Database and check the accuracy of our own implementation. This feat can be achieved by using a special kind of recurrent neural network (RNN), the Long Short-Term Memory networks (LSTM). © Springer Nature Singapore Pte Ltd. 2020.

Author Keywords

Handwriting generation; IAM handwriting database; Long Short-Term Memory networks (LSTM); Recurrent neural networks (RNN)

Index Keywords

Deep learning, Learning systems; Human being, Human like, Learning methods, Legal documents, Recurrent neural network (RNN), Short term, Short term memory; Long short-term memory

Publisher: Springer

2-s2.0-85083963778

Document Type: Conference Paper

Publication Stage: Final

Source: Scopus

Documents

Sugamy, K.^a, Suresh, P.^a, Vinaya Babu, A.^b, Akhila, R.^a

CBIR using SIFT with LoG, DoG and PCA

(2020) *Advances in Intelligent Systems and Computing*, 1079, pp. 623-637. Cited 2 times.

DOI: 10.1007/978-981-15-1097-7_52

^a CBIT, Hyderabad, India

^b SCET, Hyderabad, India

Abstract

Content based image retrieval using scale invariant feature transform (SIFT) is employed to discover stable keypoint locations within the scale-space. The extraction of image features can be done by exploiting SIFT or K-means cluster. In the proposed work we can find feature extraction and locating scale-space extrema through SIFT-DoG & SIFT-LoG ways. Finally, planned ways, SIFT-DoG, SIFT-LoG, and PCA are compared. © Springer Nature Singapore Pte Ltd 2020.

Author Keywords

Difference of gaussians (DoG); Laplacian of gaussians (LoG); Scale invariant feature transform (SIFT)

Index Keywords

Content based retrieval, K-means clustering; Content based image retrieval, Difference of Gaussians, Gaussians, Keypoint, Scale invariant feature transforms, Scale invariant features, Scale spaces; Extraction

Publisher: Springer

2-s2.0-85078467919

Document Type: Conference Paper

Publication Stage: Final

Source: Scopus

Documents

Mandhula, T.^a, Pabboju, S.^b, Gugulotu, N.^c

Predicting the customer's opinion on amazon products using selective memory architecture-based convolutional neural network

(2020) *Journal of Supercomputing*, 76 (8), pp. 5923-5947. Cited 15 times.

DOI: 10.1007/s11227-019-03081-4

^a Information Technology, Chaitanya Bharathi Institute of Technology, Hyderabad, Telangana 75, India

^b Department of Information Technology, CBIT, Gandipet, Hyderabad, 75, India

^c Computer Science Engineering, College of Engineering, JNTUH, Hyderabad, 85, India

Abstract

Opinion mining and sentiment analysis are useful to extract subjective information out of bulk text documents. Predicting the customer's opinion on amazon products has several benefits like reducing customer churn, agent monitoring, handling multiple customers, tracking overall customer satisfaction, quick escalations, and upselling opportunities. Though performing sentiment analysis is a challenging task for the researchers to identify the user's sentiments from the large datasets, it is unstructured in nature, and also includes slangs, misspells, and abbreviations. To address this problem, a new proposed system is developed in this research study. Here, the proposed system comprises of four major phases; they are data collection, pre-processing, keyword extraction, and classification. Initially, the input data were collected from the dataset: amazon customer review. After collecting the data, pre-processing was carried out for enhancing the quality of collected data. The pre-processing phase comprises of three systems: lemmatization, review spam detection, and removal of stop words and URLs. Then, an effective topic modelling approach latent Dirichlet allocation along with modified possibilistic fuzzy C-Means was applied to extract the keywords and also helps in identifying the concerned topics. The extracted keywords were classified into three forms (positive, negative, and neutral) by applying an effective machine learning classifier: Selective memory architecture-based convolutional neural network. The experimental outcome showed that the proposed system enhanced the accuracy in sentiment analysis up to 6–20% related to the existing systems. © 2019, Springer Science+Business Media, LLC, part of Springer Nature.

Author Keywords

Adam optimization algorithm; Convolutional neural network; Latent Dirichlet allocation; Lemmatization; Modified possibilistic fuzzy c-means; Sentiment analysis

Index Keywords

Computational linguistics, Convolution, Customer satisfaction, Data acquisition, Data handling, Data mining, Fuzzy neural networks, Fuzzy systems, Large dataset, Learning systems, Memory architecture, Sales, Sentiment analysis, Statistics; Convolutional neural network, Fuzzy C mean, Latent Dirichlet allocation, Lemmatization, Optimization algorithms; Network architecture

Publisher: Springer

2-s2.0-85076053243

Document Type: Article

Publication Stage: Final

Source: Scopus

Documents

Sairam, U.^a, Bhanu Prakash, M.V.^b

DI and ml approaches along with blockchain towards iot security

(2020) *International Journal of Advanced Science and Technology*, 29 (4 Special Issue), pp. 826-832. Cited 1 time.

^a Department of Information Technology, ChaitanyaBharathi Institute of Technology, India

^b Department of CSE, Rajiv Gandhi University of Knowledge Technologies, India

Abstract

Even though the usage of IoT is raising quickly, it is riddled with scalability, security, personal privacy as well as honesty problems. Despite the fact that blockchain was originally developed for managing cryptocurrencies, its decentralized nature, higher security, integrity and personal privacy has actually resulted in being incorporated with IoT in order to enhance it. There are several challenges occurring from this integration which increases the complexities. The goal of this work is to offer a thorough study of ML approaches as well as current advances in DL approaches that can be used to establish improved security approaches for IoT systems. © 2020 SERSC.

Author Keywords

Blockchain technology; DL; IoT security; ML

Publisher: Science and Engineering Research Support Society

2-s2.0-85082620839

Document Type: Article

Publication Stage: Final

Source: Scopus

Documents

Ratna Raju, A.^a, Pabboju, S.^b, Rajeswara Rao, R.^c

Brain image classification using dual-tree m-band wavelet transform and Naïve Bayes classifier
(2020) *Advances in Intelligent Systems and Computing*, 1125, pp. 635-642. Cited 3 times.

DOI: 10.1007/978-981-15-2780-7_69

^a Mahatma Gandhi Institute of Technology, Hyderabad, 500075, India

^b Department of Information Technology, Hyderabad, 500075, India

^c Jawaharlal Nehru Technological University, University College of Engineering, Hyderabad, India

Abstract

A cell which is abnormal inside the brain is referred to as brain tumor. Reproduction of a tumor cell is uncontrollable. The tumor does not spread to other parts of the body. Early diagnosis of a brain tumor is based on tumor size, location and type. In this study, a technique is discussed for magnetic resonance imaging (MRI) classification of brain image using dual-tree M-band wavelet transform (DTWT) to extract the different entropy features: Shannon entropy, approximate entropy and sample entropy, and finally Naïve Bayes (NB) classifier is used for classification. Initially, the normal and abnormal categories of MRI brain images are decomposed by DTWT to extract the aforementioned entropy features. The features which are extracted are directly applied to NB classifier. Results show that DTWT and NB classifier-based system provides 97% accuracy, 98% specificity and 96% sensitivity for MRI brain image classification. © Springer Nature Singapore Pte Ltd. 2020.

Author Keywords

DTWT; Entropy features; MRI brain image; NB classifier

Index Keywords

Barium compounds, Brain, Brain mapping, Cell proliferation, Diagnosis, Image compression, Intelligent computing, Magnetic resonance imaging, Sodium compounds, Tumors, Wavelet transforms; Approximate entropy, Bayes Classifier, Brain images, Brain tumors, Early diagnosis, M-band wavelet transform, Sample entropy, Shannon entropy; Image classification

Publisher: Springer

ISSN: 21945357

ISBN: 9789811527791

2-s2.0-85084176318

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Singh, R., Venkatesh, A.S., Sudhakar, C., Sethy, S.N., Prasad Babu, K.

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☐ 1	Kinetic modeling and development of optimal trajectories for biodiesel production using multi-objective optimization	Mogilicharla, A., Reddy, P.S.	2020	Environmental Technology and Innovation 20,101111	3

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☐ 1	Microporous material induced composite membrane with reduced oxygen leakage for MFC application	Nagar, H., Aniya, V.	2020	Journal of Environmental Chemical Engineering 8(5),104117	6

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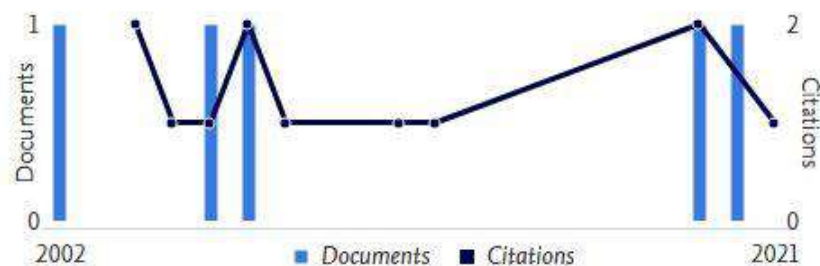
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Tallam, A., Bairy, S.R., Kalakuntala, R., Naga Prapurna, P.V., Suranani, S.

Chemical Product and Process Modeling, 2020, 15(2), 20190076

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Phase equilibria and thermophysical properties of dibromomethane: Measurement and correlation studies

Reddy, A., Nagar, H.,
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Mishra, Bishwambhar^a; Varjani, Sunita^b; Pradhan, Ipsita^c; Ekambaram, Nakkeeran^d; Teixeira, Jose A.^a; Ngo, Huu Hao^d; Guo, Wenshan^d

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^a Department of Biotechnology, Chaitanya Bharathi Institute of Technology, Hyderabad, 500075, India
^b Gujarat Pollution Control Board, Gandhinagar, 382 010, Gujarat, India
^c Department of Biotechnology, Sreenidhi Institute of Science and Technology, Hyderabad, 501301, India
^d Department of Biotechnology, Sri Venkateswara College of Engineering, Sriperumbudur Tk, 602117, India

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Phytoremediation of persistent organic pollutants: Concept challenges and perspectives
 Anwar, P., Kaware, R., Khadikar, A.K. (2022) *Phytoremediation Technology for the Removal of Heavy Metals and Other Contaminants from Soil and Water*

Bioactive peptides from fisheries residues: A review of use of papain in proteolysis reactions
 Tacias-Pascacio, V.G., Castañeda-Valbuena, D., Morellon-Sterling, R. (2021) *International Journal of Biological Macromolecules*

Sustainable processing of food waste for production of bio-based products for circular bioeconomy
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Mishra, Bishwambhar

Insights into Interdisciplinary Approaches for Bioremediation of Organic Pollutants: Innovations, Challenges and Perspectives Mishra, Bishwambhar; Varjani, Sunita; [...]; Guo, Wenshan Published Dec 2020 Proceedings of the National Academy of Sciences, India Section B: Biological Sciences	2 Times Cited
Film Based Packaging for Food Safety and Preservation: Issues and Perspectives Bishwambhar Mishra; Sunita Varjani; [...]; Zengqiang Zhang Published Dec 2020 Environmental Microbiology and Biotechnology	Not Indexed
Engineering biocatalytic material for the remediation of pollutants: A comprehensive review Mishra, Bishwambhar; Varjani, Sunita; [...]; Guo, Wenshan Published Nov 2020 Environmental Technology & Innovation	50 Times Cited
Microbial Fingerprinting of Potential Biodegrading Organisms Mishra, Bishwambhar; Varjani, Sunita; [...]; Vishal, Bhushan Published Jul 2019 Current Pollution Reports	27 Times Cited
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Energy Sources, Part A: Recovery, Utilization and Environmental Effects • 2020

Effect of long-term storage on the fatty-acid profile of biodiesel and its impact on key ultrasonic properties of biodiesels and blends

Obula Reddy, Chittepu¹; Reddy, Yanala Srinivasa²; Subhadra, Maringanti²; Rajagopal, Kurapati¹

DOI: 10.1080/15567036.2020.1817193

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¹ Department of Biotechnology, Chaitanya Bharathi Institute of Technology, Hyderabad, Telangana State, India

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A novel approach for improved in-situ biodiesel production process from gamma-irradiated castor seeds using synergistic ultrasound and microwave irradiation: Process optimization and kinetic study

Thakkar, K., Kachhwaha, S.S., Kodgire, P. (2022) *Industrial Crops and Products*

Impact of various factors on the stability of biodiesel – a review

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Effect of long-term storage on the fatty-acid profile of biodiesel and its impact on key ultrasonic properties of biodiesels and blends

By: Obula Reddy, Chittepu (Obula Reddy, Chittepu); Reddy, Yanala Srinivasa (Reddy, Yanala Srinivasa); Subhadra, Maringanti (Subhadra, Maringanti); Rajagopal, Kurapati (Rajagopal, Kurapati)

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ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS

DOI: 10.1080/15567036.2020.1817193

Early Access: SEP 2020

Indexed: 2020-09-30

Document Type: Article; Early Access

Abstract

Biodiesel is a good alternative to Petroleum Diesel (PD). The storage of fuel is unavoidable for its future use. The objective of the study was to investigate ultrasonic parameters: viscosity, relaxation time, ultrasonic absorption and Gibbs free energy for 2-year long-term stored biodiesels and blends with PD. The two biodiesels were Cotton Seed Oil Methyl Esters (CSOME) and Palm Stearin Methyl Esters (PSME). Five biodiesel blends with PD in 10, 20, 30, 40 and 50 volume per cent were studied at the room temperature of 301 K. The fatty-acid profiles were also investigated using GC-MS chromatographic analytical tool and the viscosity was determined using an Ostwald viscometer. Ultrasonic velocity was measured with an ultrasonic interferometer of fixed frequency 2 MHz. The results show that CSOME biodiesel contains 13.47 and 86.53 weight per cent of low molecular weight nonpolar and high molecular weight polar compounds, respectively, and PSME biodiesel with 38.66% and 61.33%, respectively. The measured parameters increased for both the biodiesel blends due to storage. The increase in CSOME blends is more than that in PSME blends. For CSOME blends, highest and lowest changes are 64.28% and 4.48% for 10% volume blend of viscosity and pure CSOME biodiesel of Gibbs free energy, respectively. In PSME blends, they are 31.25% for 10% volume blend of viscosity and zero for 50% volume blend of Gibbs free energy. The highest difference occurred for 50% volume blends between old CSOME and PSME blends. From the overall results, it is concluded that variations of the measured parameters strongly depend on the fatty-acid profile of biodiesels due to storage.

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Biomass Conversion and Biorefinery • Volume 12, Issue 3, Pages 683–691 • March 2022

Simultaneous production of flavonoids and lipids from *Chlorella vulgaris* and *Chlorella pyrenoidosa*

Yadavalli, Rajasri^a; Ratnapuram, Hariprasada^b; Motamarry, Snehasri^b; Reddy, C. Nagendranatha^a; Ashokkumar, Veeramuthu^c; Kuppam, Chandrasekhar^a

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^aDepartment of Biotechnology, Chaitanya Bharathi Institute of Technology (Autonomous), Gandipet, Telangana, Hyderabad, India
^bDepartment of Biotechnology, Sreenidhi Institute of Science and Technology (Autonomous), Yamnampet, Ghatkesar, Telangana State, Hyderabad, India
^cDepartment of Chemical Technology, Chulalongkorn University, Bangkok, Thailand

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Simultaneous production of flavonoids and lipids from *Chlorella vulgaris* and *Chlorella pyrenoidosa*

By: Yadavalli, Rajasri (Yadavalli, Rajasri); Ratnapuram, Hariprasada (Ratnapuram, Hariprasada); Motamarry, Snehasri (Motamarry, Snehasri); Reddy, C. Nagendranatha (Reddy, C. Nagendranatha); Ashokkumar, Veeramuthu (Ashokkumar, Veeramuthu); Kuppam, Chandrasekhar (Kuppam, Chandrasekhar)

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Volume: 12 Issue: 3 Page: 683-691 Special Issue: SI
DOI: 10.1007/s13399-020-01044-x
Published: MAR 2022
Early Access: OCT 2020
Indexed: 2020-10-14
Document Type: Article

Abstract

Flavonoids are the secondary metabolites synthesized by microalgae and have diverse applications in various fields. The present study compares among two microalgal strains, *Chlorella vulgaris* (CV) and *Chlorella pyrenoidosa* (CP), for the production of flavonoids and lipids, which were cultivated in mixotrophic as well as autotrophic modes. This study also focuses on the role of off-phenylalanine as a supplement to enhance flavonoids. The current work establishes the relation between nitrates, external carbon, and off-phenylalanine for enhanced production of flavonoids and lipids. The extracted flavonoids were found to be maximum in CP-autotrophic mode followed by CV-mixotrophic mode with 138 µg/ml and 118 µg/ml, respectively. The common flavonoids observed with both the microalgal strains were quercetin, catechin, and p-coumaric acid. In comparison, the production of the maximum lipid of 23.7% was reported with mixotrophic operation in CV, followed by CP (19.4%). The scavenging activity of the extracted flavonoids was determined using a hydrogen peroxide assay and was found to be in the range of 63–73% at all experimental conditions. CP was found to produce more flavonoids in autotrophic mode, whereas mixotrophic mode showed maximum production of lipids and flavonoids in the CV. The simultaneous production of high value-added products, viz., flavonoids and lipids, not only paves a pathway for the biorefinery approach but also elevates the commercial potential during scale-up. Graphical abstract

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Source type: Journal
ISSN: 2352-1864
DOI: 10.1016/j.eti.2020.101063
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Engineering biocatalytic material for the remediation of pollutants: A comprehensive review

Mishra, Bishwambhar^a; Varjani, Sunita^b; Agrawal, Dinesh Chand^c; Mandal, Sanjeeb Kumar^d; Ngo, Huu Hao^a; Taherzadeh, Mohammad J.^d; Chang, Jo-Shu^{b,1}; You, Siming¹; Guo, Wenshan²

^a Department of Biotechnology, Chaitanya Bharathi Institute of Technology, Hyderabad, 500075, India
^b Gujarat Pollution Control Board, Gandhinagar, 382 010, Gujarat, India
^c School of Biotechnology, Banaras Hindu University (BHU), Varanasi, 221005, India
^d Department of Biotechnology, Sri Shakti Institute of Engineering and Technology, Coimbatore, 641062, Tamil Nadu, India

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Multi-omics approaches for remediation of bisphenol A: Toxicity, risk analysis, road blocks and research perspectives
Sharma, P., Vishwakarma, R., Varjani, S. (2022) *Environmental Research*

Accumulation and distribution of persistent organic pollutants in surface sediment of the estuarine region and correlation between genetic and environmental factors: A case study
Le, P.-C., Le, D.-L., Nguyen, D.D. (2022) *Environmental Technology and Innovation*

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Volume: 20
Article Number: 101063
DOI: 10.1016/j.eti.2020.101063
Published: NOV 2020
Indexed: 2021-01-07
Document Type: Review

Abstract

Bioremediation through biotechnological interventions has attracted more attention among researchers in field of environmental pollution control and abatement. Various cutting-edge studies in area of protein engineering and synthetic biology offer a new platform for creation of innovative, advanced biological materials for its beneficial role in environmental pollution mitigation. Biocatalysis especially receives considerable attention as sustainable approach to resource recovery from waste along with elimination of pollutants. This paper focuses on updated developments in engineering of biocatalytic substances which can degrade pollutants of emerging concern. It also explains various classes of biocatalysts, their mechanisms of immobilization, and applications in terms of environmental pollutant remediation. Opportunities and challenges for future research have also been discussed. (C) 2020 Elsevier B.V. All rights reserved.

Keywords

Author Keywords: Biocatalyst; Protein engineering; Pollutants; Immobilization; Bioremediation
Keywords Plus: PERSISTENT ORGANIC POLLUTANTS; BISPHENOL-A REMOVAL; HORSE RADISH PEROXIDASE; IMMOBILIZED LACCASE; WASTE-WATER;

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Energy and Environment • Volume 32, Issue 6, Pages 1029 - 1058 • September 2021

Microbial approaches for remediation of pollutants: Innovations, future outlook, and challenges

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^a Department of Biotechnology, Chaitanya Bharathi Institute of Technology, Hyderabad, India
^b Paryavaran Bhavan, Gujarat Pollution Control Board, Gandhinagar, India
^c Institute of Chemistry, Bioscience and Environmental Engineering, Faculty of Science and Technology, University of Stavanger, Stavanger, Norway
^d College of Natural Resources and Environment, Northwest A F University, Shaanxi Province, China

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Bioremediation of Endocrine Disrupting Chemicals-Advancements and Challenges
 Antony, S., Antony, S., Rebello, S. (2022) *Environmental Research*

Exploring potential bacterial populations for enhanced anthraquinone dyes biodegradation: a critical review
 Jamal, M., Awadlaseid, A., Su, X. (2022) *Biotechnology Letters*

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Microbial approaches for remediation of pollutants: Innovations, future outlook, and challenges

By: Mishra, Bishwambhar (Mishra, Bishwambhar); Varjani, Sunitha (Varjani, Sunitha); Kumar, Gopalakrishnan (Kumar, Gopalakrishnan); Awasthi, Mukesh Kumar (Awasthi, Mukesh Kumar); Awasthi, Sanjeev Kumar (Awasthi, Sanjeev Kumar); Sindhu, Raveendran (Sindhu, Raveendran); Binod, Parameswaran (Binod, Parameswaran); Rene, Eldon R. (Rene, Eldon R.); Zhang, Zengqiang (Zhang, Zengqiang)

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ENERGY & ENVIRONMENT

Volume: 32 Issue: 6 Page: 1029-1058
 Article Number: 0958305X19896781
 DOI: 10.1177/0958305X19896781
 Published: SEP 2021
 Early Access: JAN 2020
 Indexed: 2020-01-24
 Document Type: Article

Abstract

Environmental contamination with persistent organic pollutants has emerged as a serious threat of pollution. Bioremediation is a key to eliminate these harmful pollutants from the environment and has gained the interest of researchers during the past few decades. Scientific knowledge upon microbial interactions with individual pollutants over the past decades has helped to abate environmental pollution. Traditional bioremediation approaches have limitations for their applications; hence, it is essential to discover new bioremediation approaches with biotechnological interventions for best results. The developments in various methodologies are expected to increase the efficiency of bioremediation techniques and provide environmentally sound strategies. This paper deals with the profiling of microorganisms present in polluted sites using various techniques such as culture-based approaches and omics-based approaches. Besides this, it also provides up-to-date scientific literature on the microbial electrochemical technologies which are nowadays considered as the best approach for remediation of pollutants. Detailed information about future outlook and challenges to evaluate the effect of various treatment technologies for remediation of pollutants has been discussed.

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Long-term storage effect on molecular interactions of biodiesels and blends

Reddy, Yanala Srinivasa¹; Obula Reddy, Chittepudi²; Subhadra, Maringanti²; Rajagopal, Kurapati²

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¹ Department of Physics, Chaitanya Bharathi Institute of Technology, Gandipet, Hyderabad, India
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Rajagopal, K., Reddy, Y.S., Reddy, C.O. (2022) *Journal of Biotech Research*

Effect of long-term storage on the fatty acid profile of biodiesel and its impact on key ultrasonic properties of biodiesels and blends

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Long-term storage effect on molecular interactions of biodiesels and blends

By: Reddy, Yanala Srinivasa (Reddy, Yanala Srinivasa); Reddy, Chittepudi Obula (Reddy, Chittepudi Obula); Subhadra, Maringanti (Subhadra, Maringanti); Rajagopal, Kurapati (Rajagopal, Kurapati)

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DOI: 10.1080/15567036.2020.1776798

Early Access: JUN 2020

Indexed: 2020-07-14

Document Type: Article; Early Access

Abstract

In this era of fuel crisis, biodiesel is the better alternative to Petroleum Diesel (PD). In general, biodiesel is composed of Fatty acid Methyl Esters (FAME). In the present investigation, change in molecular interactions of two year long-term stored biodiesels and blends were studied by measuring ultrasonic parameters. The results were analyzed with respect to fatty acid profile of biodiesels. The biodiesels collected were Cotton Seed Oil Methyl Esters (CSOME) and Palm Stearin Methyl Esters (PSME). The CSOME biodiesel was rich in unsaturated FAME and PSME in saturated FAME. Five different blends of both the biodiesels with Petroleum Diesel (PD) in the volume percent of 10, 20, 30, 40, and 50 were prepared. The blends were stored for two years in their as it was condition at room temperature without interaction of light. The measurements have been done using an ultrasonic interferometer of fixed frequency of 2 MHz. The measured parameters were density, ultrasonic velocity, adiabatic compressibility, acoustic impedance and intermolecular free length. Sediments were formed in CSOME biodiesel blends only which was rich in unsaturated FAME. No sediment was formed in PSME blends. The highest decrease was found in adiabatic compressibility for 10% volume blends by 5.96% and 5.65% for CSOME and PSME biodiesels, respectively. The lowest increase was found in density for 10% volume blend by 0.13% for both biodiesels. The difference between large and small values was found highest for 18% volume blend of PSME biodiesel by 5.17% for adiabatic compressibility. Poor stability was noticed in low-level blends than high-level blends. Pure biodiesels were found more stable than blends. Strong molecular interactions were observed in low-level blends. Systematic trend in the variation of

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Computational Analysis of the Hypothetical Protein P9303_05031 from Marine Cyanobacterium Prochlorococcus Marinus MIT 9303

Sai Arun, P; Parvati; Yariagadda, Vineetha; Vijaya Laxmi, Govindugari; Salla, Sumithra

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* Department of Biotechnology, Chaitanya Bharathi Institute of Technology, Gandipet, Hyderabad, Telangana 500075, India

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Computational Analysis of the Hypothetical Protein P9303_05031 from Marine Cyanobacterium Prochlorococcus Marinus MIT 9303

By: Arun, P. V. Parvati Sai (Arun, P. V. Parvati Sai) ; Yarlagadda, Vineetha (Yarlagadda, Vineetha) ; Laxmi, Govindugari Vijaya (Laxmi, Govindugari Vijaya) ; Salla, Sumithra (Salla, Sumithra)

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JOURNAL OF INTEGRATIVE BIOINFORMATICS
 Volume: 17 Issue: 1
 Article Number: 20180087
 DOI: 10.1515/jib-2018-0087
 Published: 2020
 Indexed: 2020-06-23
 Document Type: Article

Abstract

Prochlorococcus marinus MIT 9303 is a marine cyanobacterium found in sea waters. It was first isolated from a depth of 160 m in the Sargasso Sea in the year 1992. This cyanobacterium serves as a good model system for scientific research due to the presence of many desirable characteristics like smaller in size, ability to perform photosynthesis and the ease of culture maintenance. The genome of this cyanobacterium encodes for about 3022 proteins. Out of these 3022 proteins, few proteins were annotated as hypothetical proteins. We performed a computational study to characterize one of the hypothetical proteins "P9303_05031" to deduce its functional role in the cell using various bioinformatics techniques. After in-depth analysis, this hypothetical protein showed the conserved domain as of Hsp10 of molecular chaperonins of GroES. In this work, we have predicted the bidirectional best hits for the hypothetical protein P9303_05031 followed by the prediction of protein properties such as primary, secondary and tertiary structures. The existence of the Hsp10 domain indicates its role is essential for the folding of proteins.

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AIP Conference Proceedings • Volume 2269 • 12 October 2020 • Article number 030056 • 2019 International Conference on Multifunctional Materials, ICMF 2019 • Hyderabad • 19 December 2019 through 21 December 2019 • Code 164101

Document type

Conference Paper

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Conference Proceedings

ISSN

0094243X

ISBN

978-073542032-8

DOI

10.1063/5.0020659

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The characterization of Nd doped BiFeO₃ multiferroic polycrystalline materials

[Ramesh J.^a](#) ; [Reddy S.S.K.^b](#); [Padmasree G.^c](#); [Sreenath Reddy M.^d](#); [Gopal Reddy Ch.^a](#); [Yadagiri Reddy P.^a](#); [Rama Reddy K.^a](#); [Raghavendra Reddy V.^e](#)

[Save all to author list](#)^a Department of Physics, Osmania University, Hyderabad, Telangana, India^b Department of Physics, Chaitanya Bharathi Institute of Technology, Gandipet, Hyderabad, 500075, India^c Dept. of Physics, Stanley College of Engineering and Technology for Women, Abids, Hyderabad, 500001, India^d Department of Physics, Nizam College, Basheerbagh, Hyderabad, India[View additional affiliations](#)

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Pradhan, S.K. , Das, J. , Rout, P.P.
(2010) *Journal of Physics and Chemistry of Solids*

Dielectric, magnetic and magnetoelectric properties of La and Nb codoped bismuth ferrite

Singh, H. , Yadav, K.L.
(2011) *Journal of Physics Condensed Matter*

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The present work reports the preparation and study of multiferroic Nd doped BiFeO₃ (BFO) polycrystalline samples. The samples are prepared with sol-gel method. The x-ray diffraction measurements confirm the orthorhombic structure with Pnma space-group. Small amount of secondary phase is also observed. SEM and EDX have been used to study the surface morphology and weight percentage of the elements. The room temperature leakage current density (J-E) measurements indicate grain boundary limited conduction and Ohmic conduction mechanisms under lower and



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Effect of indium substitution on structural and hyperfine parameters of CoFe_2O_4

Sumalatha M.^a; Reddy, S. Shravan Kumar^d; Reddy, M. Sreenath^b ; Sripada, Suresh^c; Reddy, P. Venkat^a; Ch, Gopal Reddy^b; Reddy, P. Yadagiri^b; Reddy, V. Raghavendra^c

[Save all to author list](#)^a Sreenidhi Institute of Science and Technology, Hyderabad, 501301, India^b Department of Physics, Osmania University, Hyderanbad, 500007, India^c JNTUH College of Engineering, Jagityal, Nachupally, 505501, India^d CBIT, Gandipet, Hyderabad, 500075, India[View additional affiliations](#)

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Safi, R. , Ghasemi, A. , Shoja-Razavi, R.

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Magnetic properties of cobalt ferrite synthesized by mechanical alloying

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Structural and ^{57}Fe Mössbauer study of Sol-Gel prepared Indium substituted Cobalt ferrites with chemical formula $\text{CoFe}_{2-x}\text{In}_x\text{O}_4$ ($x = 0, 0.2, 0.4, 0.6$ and 0.8) are reported in this paper. From the Rietveld refinement of X-Ray diffraction patterns, it is observed that $x=0, 0.2$ samples are formed in single phase without any detectable impurity and $x=0.4, 0.6$ and 0.8 samples consists of a relatively small fraction un-reacted Fe_2O_3 as an impurity phase. It is also found that lattice parameters increase



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10.1080/15567036.2020.1817193

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Effect of long-term storage on the fatty-acid profile of biodiesel and its impact on key ultrasonic properties of biodiesels and blends

Obula Reddy, Chittepu^a; Reddy, Yanala Srinivasa^b; Subhadra, Maringanti^b;Rajagopal, Kurapati^a

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^a Department of Biotechnology, Chaitanya Bharathi Institute of Technology, Hyderabad, Telangana State, India^b Department of Physics, Chaitanya Bharathi Institute of Technology, Hyderabad, Telangana State, India3 43th percentile
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Abstract

Biodiesel is a good alternative to Petroleum Diesel (PD). The storage of fuel is unavoidable for its future use. The objective of the study was to investigate ultrasonic parameters: viscosity, relaxation time,

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Biodiesel Emissions: A State-of-the-Art Review on Health and Environmental Impacts

Aljaafari, A. , Fattah, I.M.R. , Jahirul, M.I.
(2022) *Energies*

A novel approach for improved in-situ biodiesel production process from gamma-irradiated castor seeds using synergistic ultrasound and microwave irradiation: Process optimization and kinetic study

Thakkar, K. , Kachhwaha, S.S. , Kodgire, P.
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ACS Applied Energy Materials • Volume 3, Issue 9, Pages 9436 - 9448 • 28 September 2020**Document type**

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10.1021/acsaem.0c01871

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Unique Structure-Induced Magnetic and Electrochemical Activity in Nanostructured Transition Metal Tellurates $\text{Co}_{1-x}\text{Ni}_x\text{TeO}_4$ ($x = 0, 0.5, \text{ and } 1$)

Patel, Akhilesh Kumar^a; Panda, Manas Ranjan^{b, c}; Rani, Ekta^d; Singh, Harishchandra^{a, d} ; Samatham, S. Shanmukharao^e; Nagendra, Abharana^f; Jha, Sambhu Nath^{f, g}; Bhattacharyya, Dibyendu^g; Suresh, Krishnawarrier G.^a ; Mitra, Sagar^b

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^a Magnetic Materials Laboratory, Department of Physics, Indian Institute of Technology Bombay, Powai, Mumbai, 400076, India^b Electrochemical Energy Laboratory, Department of Energy Science and Engineering, Indian Institute of Technology Bombay, Powai, Mumbai, 400076, India^c IITB-Monash Research Academy, Powai, Mumbai, 400076, India^d Nano and Molecular Systems Research Unit, University of Oulu, Oulu, FIN-90014, Finland[View additional affiliations](#) 4 51th percentile
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Views count [View all metrics](#) [Full text options](#) [Export](#) **Abstract**[Author keywords](#)[Reaxys Chemistry database information](#)[Indexed keywords](#)[Sustainable Development Goals 2022](#)[SciVal Topics](#)[Metrics](#)[Funding details](#)**Cited by 4 documents**An Excellent and Fast Anodes for Lithium-Ion Batteries Based on the 1T'-MoTe₂Phase MaterialPanda, M.R. , Sau, S. , Gangwar, R.
(2022) *ACS Applied Energy Materials*Spin-lattice-charge coupling in quasi-one-dimensional spin-chain NiTe₂ O₅Tiwari, A. , Kakarla, D.C. , Macam, G.
(2022) *Physical Review Materials*Electrochemical properties of biomass-derived carbon and its composite along with Na₂Ti₃O₇ as potential high-performance anodes for Na-ion and Li-ion batteriesPanda, M.R. , Kathribail, A.R. , Modak, B.
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NMR evidence for the charge-discharge induced structural evolution in a Li-ion battery glass anode and its impact on the electrochemical performances

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(2021) *Nano Energy*High Performance Lithium-Ion Batteries Using Layered 2H-MoTe₂ as AnodePanda, M.R. , Gangwar, R. , Muthuraj, D.
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Geochemical Studies on the Groundwater of Kistapur Village, Medchal District, Telangana

Venkateshwarlu M.^a ; [Rajagopal K.^b](#); [Reddy Y.S.^c](#) [Save all to author list](#)^a Department of Civil Engineering, Medchal District, Cmr College of Engineering and Technology (Autonomous), Hyderabad, 501 401, India^b Department of Biotechnology, Chaitanya Bharathi Institute of Technology (Autonomous), Gandipet, Hyderabad, 500 075, India^c Department of Physics, Chaitanya Bharathi Institute of Technology (Autonomous), Gandipet, Hyderabad, 500 075, India1 27th percentile
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Abstract

Groundwater is one of the sources of drinking water and various other usages. With an increase in urbanization and industrialization, health conditions are influenced by the chemical aspects of groundwater and geology of the region. Access to safe drinking water remains an urgent necessity in the world as it is directly related to health. Groundwater accounts for more than 80% of the rural domestic

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International Journal of Environmental Analytical Chemistry • 2020**Document type**

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Journal

ISSN

03067319

DOI

10.1080/03067319.2020.1830984

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Dose assessment due to natural gamma radiation levels and radioactive nuclides in the environment of Dasarlapally, Nalgonda District, Telangana State, India

Suman G.^a; Vinay Kumar Reddy K.^b; Sreenath Reddy M.^a; Vidyasagar D.^c; Gopal Reddy, Ch.^a ;
Yadagiri Reddy P.^a

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^a Department of Physics, Osmania University, Hyderabad, India^b Department of Physics, Chaitanya Bharathi Institute of Technology, Hyderabad, India^c Health Physics Unit, Nuclear Fuel Complex, Hyderabad, India
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[View all metrics](#) [Full text options](#) [Export](#) **Abstract**[Author keywords](#)[Reaxys Chemistry database information](#)[Indexed keywords](#)[SciVal Topics](#)[Metrics](#)[Funding details](#)**Abstract**

Gamma radiation levels in the indoors and outdoors of Dasarlapally, a village in the environs of uranium mineralised area, were measured with μ R- survey metre and Thermoluminescence Dosimeters (TLDs). The measured gamma radiation absorbed dose in the study area varied between 1744 and 2663 μ Gy y^{-1} with an average of 2327 ± 505 μ Gy y^{-1} . The ratio of indoor to outdoor gamma

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Ingestion/inhalation dose due to intake of ^{222}Rn in the water of district Gurugram, Southern Haryana, India, measured by alpha scintillometry technique

Singh, B. , Kant, K. , Garg, M. (2022) *International Journal of Environmental Analytical Chemistry*

Natural background gamma radiation dose estimation in the surrounding villages of Devarakonda Town, Telangana State, India

Reddy, M.S. , Suman, G. , Reddy, K.V.K. (2021) *Journal of Radioanalytical and Nuclear Chemistry*

Monitoring of natural radionuclides by alpha scintillometry and gamma spectrometry techniques in soil of district Palwal, Southern Haryana, India

Singh, B. , Kant, K. , Garg, M. (2021) *International Journal of Environmental Analytical Chemistry*

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Estimation of natural background gamma radiation dose in the environs of uranium mineralized area: A case study at Megavath Thanda, Nalgonda district, Telangana state, India

Suman, G. , Reddy, K.V.K. , Reddy, M.S. (2021) *AIP Conference Proceedings*

Natural background gamma radiation dose estimation in the surrounding villages of Devarakonda Town, Telangana State, India

Reddy, M.S. , Suman, G. , Reddy, K.V.K. (2021) *Journal of Radioanalytical and Nuclear Chemistry*

Ambient natural gamma radiation dose measurement in Devarakonda town, Nalgonda district, India



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[Nano Express](#) • [Open Access](#) • Volume 1, Issue 3 • 1 December 2020 • Article number 030029
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Journal

ISSN

2632959X

DOI

10.1088/2632-959X/abcbd7

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Novel cost-effective and electrocatalytically active intermetallic nickel aluminide counter electrode for dye sensitized solar cells

[Sahare, Sanjay^{a, b}](#); [Santhosh Kumar A.^{c, d}](#) ; [Bhave, Tejashree^a](#); [Abhyankar, Ashutosh^c](#)

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^a Department Of Applied Physics, Defence Institute Of Advanced Technology, Pune, 411025, India^b Institute For Advanced Study, Shenzhen University, Guangdong, Shenzhen, 518060, China^c Department Of Metallurgical And Materials Engineering, Defence Institute Of Advanced Technology, Pune, 411025, India^d Department Of Physics, Chaitanya Bharathi Institute Of Technology, Hyderabad, 500075, India

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Several highly efficient catalysts for Pt-free and FTO-free counter electrodes of dye-sensitized solar cells

Wang, Y. , Wu, M. , Lin, X. (2012) *Journal of Materials Chemistry*

Nanopatterned conductive polymer films as a Pt, TCO-free counter electrode for low-cost dye-sensitized solar cells

Kwon, J. , Ganapathy, V. , Kim, Y.H. (2013) *Nanoscale*

Study on conventional carbon characteristics as counter electrode for dye sensitized solar cells

Fajar, M.N. , Endarko (2017) *Journal of Physics: Conference Series*[View all related documents based on references](#)

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[Authors](#) [Keywords](#) [Abstract](#)[Author keywords](#)[Indexed keywords](#)[Sustainable Development Goals 2022](#)[SciVal Topics](#)[Metrics](#)[Funding details](#)**Abstract**

The very high cost, scarcity and dissolubility of platinum (Pt) is the center of debates as a counter electrode (CE) in dye sensitized solar cells (DSSCs) research domain. To deal with such core issues, herein, novel low-cost and electro-catalytically active inter-metallic nickel aluminide (Ni3Al) thin films have been fabricated successfully on fluorine-doped tin oxide substrates by DC magnetron sputtering at room temperature. For the first time, Ni3Al has been utilized as a CE for DSSCs application. Further,



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Journal of Alloys and Compounds • Volume 837 • 5 October 2020 • Article number 155478**Document type**

Article

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Journal

ISSN

09258388

DOI

10.1016/j.jallcom.2020.155478

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Raman and in-field ^{57}Fe Mössbauer study of cation distribution in Ga substituted cobalt ferrite ($\text{CoFe}_{2-x}\text{Ga}_x\text{O}_4$)

Sumalatha M.^a; Shravan kumar Reddy S.^b; Reddy, M. Sreenath^c ; Sripada, Suresh^d; Raja, M. Manivel^c; Reddy, Ch Gopal^c; Reddy, P. Yadagiri^c; Reddy, V. Raghavendra^f

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^a Sreenidhi Institute of Science and Technology, Hyderabad, 501301, India^b CBIT, Gandipet, Hyderabad, 500075, India^c Department of Physics, Osmania University, Hyderabad, 500007, India^d JNTUH College of Engineering, Jagityal, Nachupally, 505501, India[View additional affiliations](#)

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Funding details

Abstract

Structural and magnetic properties of Ga substituted cobalt ferrite ($\text{CoFe}_{2-x}\text{Ga}_x\text{O}_4$) samples are reported in the present work. Phase purity of the prepared samples is studied with x-ray diffraction measurements. The room temperature M-H loops are measured using vibrating sample magnetometer. From the room temperature M-H data, it is observed that Ga substitution results in the soft-magnetic property in CoFe_2O_4 . Saturation magnetization is found to change for higher substitution of Ga ($x >$

Cited by 10 documents

Structural and elastic properties of tetragonal nano-structured copper ferrite

Dhyani, R. , Srivastava, R.C. , Rawat, P.S.
(2022) *International Journal of Materials Research*

Study of cation distribution in La^{3+} and Eu^{3+} substituted cobalt ferrite and its effect on magnetic properties

Channagoudra, G. , Peter J. Nunez, J. , Hadimani, R.L.
(2022) *Journal of Magnetism and Magnetic Materials*

Structural, optical, electrical, dielectric, molecular vibrational and magnetic properties of La^{3+} doped Mg–Cd–Cu ferrites prepared by Co-precipitation technique

Arshad, M.I. , Hasan, M.S. , Rehman, A.U.
(2022) *Ceramics International*

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Raman and in-field ^{57}Fe Mössbauer study of cation distribution in indium (In) substituted phase pure cobalt ferrite ($\text{CoFe}_{2-x}\text{In}_x\text{O}_4$)

Sumalatha, M. , Shravan Kumar Reddy, S. , Sreenath Reddy, M.
(2021) *Journal of Magnetism and Magnetic Materials*

Cation distribution and magnetic properties of nanocrystalline gallium substituted cobalt ferrite

Mohamed, M.B. , Yehia, M.
(2014) *Journal of Alloys and Compounds*

Characterization of microstructure and magnetic properties for Fe ion-doped CoGa_2O_4

Wang, X. , Liu, X. , Kan, X.
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Journal

ISSN

11266708

DOI

10.1007/JHEP05(2020)128

[View more](#)

Multiparton webs beyond three loops

[Agarwal, Neelima^a](#) ; [Danish, Abhinava^b](#) ; [Magnea, Lorenzo^c](#) ; [Pal, Sourav^b](#) ;

[Tripathi, Anurag^b](#)
[Save all to author list](#)^a Department of Physics, Chaitanya Bharathi Institute of Technology, Gandipet, Hyderabad, 500075, Telangana State, India^b Department of Physics, Indian Institute of Technology Hyderabad, Kandi, Sangareddy, 502285, Telangana State, India^c Dipartimento di Fisica and Arnold-Regge Center, Università di Torino, and INFN, Sezione di Torino, Via Pietro Giuria 1, Torino, I-10125, Italy
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Abstract[Author keywords](#)[SciVal Topics](#)[Metrics](#)[Funding details](#)**Abstract**

Correlators of Wilson-line operators are fundamental ingredients for the study of the infrared properties of non-abelian gauge theories. In perturbation theory, they are known to exponentiate, and their logarithm can be organised in terms of collections of Feynman diagrams called webs. We study the classification of webs to high perturbative orders, proposing a set of tools to generate them recursively: in particular, we introduce the concept of Cweb, or correlator web, which is a set of skeleton diagrams built with connected gluon correlators, instead of individual Feynman diagrams. As an application, we enumerate all Cwebs entering the soft anomalous dimension matrix for multiparton scattering amplitudes at four loops, and we compute the mixing matrices for all Cwebs

Cited by 9 documents

Hbb vertex at four loops and hard matching coefficients in SCET for various currents

Chakraborty, A. , Huber, T. , Lee, R.N.
(2022) *Physical Review D*

Building blocks of Cwebs in multiparton scattering amplitudes

Agarwal, N. , Pal, S. , Srivastav, A.
(2022) *Journal of High Energy Physics*

Two-loop infrared singularities in the production of a Higgs boson associated with a top-quark pair

Chen, J. , Ma, C. , Wang, G.
(2022) *Journal of High Energy Physics*

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Cwebs beyond three loops in multiparton amplitudes

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(2021) *Journal of High Energy Physics*

Building blocks of Cwebs in multiparton scattering amplitudes

Agarwal, N. , Pal, S. , Srivastav, A.
(2022) *Journal of High Energy Physics*

Boomerang webs up to three-loop order

Gardi, E. , Harley, M. , Lodin, R.
(2021) *Journal of High Energy Physics*

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Energy Sources, Part A: Recovery, Utilization and Environmental Effects • 2020**Document type**

Article

Source type

Journal

ISSN

15567036

DOI

10.1080/15567036.2020.1776798

[View more](#)

Long-term storage effect on molecular interactions of biodiesels and blends

Reddy, Yanala Srinivasa^a; Obula Reddy, Chittepu^b; Subhadra, Maringanti^a;Rajagopal, Kurapati^b

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^a Department of Physics, Chaitanya Bharathi Institute of Technology, Gandipet, Hyderabad, India^b Department of Biotechnology, Chaitanya Bharathi Institute of Technology, Gandipet, Hyderabad, India3 43th percentile
Citations in Scopus0.31
FWCI 16
Views count [View all metrics >](#)[Full text options](#) [Export](#) **Abstract**

Author keywords

Indexed keywords

Sustainable Development Goals 2022

SciVal Topics

Metrics

Abstract

In this era of fuel crisis, biodiesel is the better alternative to Petroleum Diesel (PD). In general, biodiesel is composed of Fatty acid Methyl Esters (FAME). In the present investigation, change in molecular interactions of two year long-term stored biodiesels and blends were studied by measuring ultrasonic parameters. The results were analyzed with respect to fatty acid profile of biodiesels. The biodiesels collected were Cotton Seed Oil Methyl Esters (CSOME) and Palm Stearin Methyl Esters (PSME). The

Cited by 3 documents

A comprehensive review on oleaginous bacteria: an alternative source for biodiesel production

Koreti, D. , Kosre, A. , Jadhav, S.K. (2022) *Bioresources and Bioprocessing*

Impact of various factors on the stability of biodiesel – a review

Rajagopal, K. , Reddy, Y.S. , Reddy, C.O. (2022) *Journal of Biotech Research*

Effect of long-term storage on the fatty-acid profile of biodiesel and its impact on key ultrasonic properties of biodiesels and blends

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Obula Reddy, C. , Reddy, Y.S. , Subhadra, M. (2020) *Energy Sources, Part A: Recovery, Utilization and Environmental Effects*

Ultrasonic absorption of biodiesels and blends

Rajagopal, K. , Ahmad, A. (2018) *Energy Sources, Part A: Recovery, Utilization and Environmental Effects*

Impact of various factors on the stability of biodiesel – a review

Rajagopal, K. , Reddy, Y.S. , Reddy, C.O. (2022) *Journal of Biotech Research*



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Materials Research Bulletin • Volume 128 • August 2020 • Article number 110900**Document type**

Article

Source type

Journal

ISSN

00255408

DOI

10.1016/j.materresbull.2020.110900

[View more](#)

Critical behavior, universality class and magneto-transport properties of Ni₂MnIn

Patel, Akhilesh Kumar^a ; Samatham, S. Shanmukharao^b; K., G. Suresh^a

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^a Magnetic Materials Laboratory, Department of Physics, Indian Institute of Technology Bombay, Mumbai, 400076, Maharashtra, India^b Department of Physics, Maharaj Vijayaram Gajapathi Raj College of Engineering, Vijayaram Nagar Campus, Chintalavalasa, Vizianagaram, 535005, Andhra Pradesh, India2 39th percentile
Citations in Scopus0.22
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Views count [View all metrics >](#)[Full text options](#) [Export](#) **Abstract**

Author keywords

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Indexed keywords

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Metrics

Funding details

Abstract

Structural, magnetic, transport and critical properties of Ni₂MnIn are investigated using the combined results of x-ray diffraction, magnetization and electrical resistivity. Ni₂MnIn crystallizes in cubic structure with Fm-3m space group. The alloy is metallic and shows Fermi liquid behavior. Critical exponents are extracted using the modified Arrott's plot (MAP), Kouvel-Fisher (KF) and magnetocaloric effect (MCE) methods and are found to be mutually consistent. The alloy belongs to the three-dimensional (3D)-Heisenberg universality class with short range magnetic interactions, as inferred from the exchange interaction $J(r) \sim r^{-4.91}$. The suppression of spin-fluctuations by the applied

Cited by 2 documents

Application of magnetic fields to wastewater treatment and its mechanisms: A review

Wang, Y. , Gu, X. , Quan, J. (2021) *Science of the Total Environment*Critical analysis of chemical and hydrostatic pressure-induced Gd₅Si₂Ge₂ alloySharma, S. , Patel, A.K. , Kumar, P. (2021) *Materials Today Communications*[View all 2 citing documents](#)

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Physical Review B • [Open Access](#) • Volume 101, Issue 14 • 1 April 2020 • Article number 144436**Document type**Article • [Green Open Access](#)**Source type**

Journal

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24699950

DOI

10.1103/PhysRevB.101.144436

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Disorder-induced critical exponents near a ferromagnetic quantum critical point in $M_{1-x}C_xSi$

[Mishra, Ashish Kumar^a](#) ; [Shanmukharao Samatham S.^b](#); [Lees, Martin R.^c](#); [Ganesan V.^a](#)
[Save all to author list](#)^a Low Temperature Laboratory, UGC-DAE Consortium for Scientific Research, Indore, MP, 452001, India^b Department of Physics, Maharaj Vijayaram Gajapathi Raj College of Engineering, Vijayaram Nagar Campus, Chintalavalasa, Vizianagaram, Andhra Pradesh, 535005, India^c Department of Physics, University of Warwick, Coventry, CV4 7AL, United Kingdom
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[Abstract](#)[Indexed keywords](#)[SciVal Topics](#)[Metrics](#)[Funding details](#)**Abstract**

We report the observation of critical behavior in $M_{1-x}C_xSi$ ($0 \leq x \leq 1$) close to a $T=0$ K quantum critical point, consistent with the Belitz-Kirkpatrick-Vojta (BKV) theory of disordered metallic ferromagnets. The critical exponents are in good agreement with the theoretical predictions of the BKV theory in the preasymptotic limit. A non-Fermi liquidlike behavior is seen down to 200 mK in the transport and thermodynamic properties around the critical concentration $x_C=0.2$. Quantum criticality and self-consistency of the exponents is further confirmed using a scaling analysis of the magnetization and heat capacity data. A recovery to Fermi liquidlike behavior is displayed on moving away from the critical composition, as well as with the application of a magnetic field. © 2020 American Physical Society.

Cited by 3 documentsMagnetic behavior of Ru substituted skyrmion metal $MnSi$
 Samatham, S.S. , Singh, S. ,
Patel, A.K.
(2022) *Journal of Physics
Condensed Matter*

Weak itinerant ferromagnetism and non-Fermi liquid behavior in Ni-TM (TM = Cr, Nb) alloys near critical concentration

 Vishvakarma, S. , Srinivas, V.
(2021) *Journal of Physics
Condensed Matter*

Non-Fermi liquid behavior and signature of Griffiths phase in Ni-Cr binary alloy

 Vishvakarma, S. , Srinivas, V.
(2021) *Journal of Applied Physics*
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 Huang, K. , Eley, S. , Rosa, P.F.S.
(2016) *Physical Review Letters*

Ferromagnetic Quantum Critical Point in Noncentrosymmetric Systems

 Kirkpatrick, T.R. , Belitz, D.
(2020) *Physical Review Letters*

Preasymptotic critical behavior and effective exponents in disordered metallic quantum ferromagnets

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(2014) *Physical Review Letters*
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Journal of Advanced Research in Dynamical and Control Systems • Volume 12, Issue 7 Special Issue, Pages 2603 - 2606 • 2020**Document type**

Review

Source type

Journal

ISSN

1943023X

DOI

10.5373/JJARDCS/V12SP7/20202395

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Computational challenges in statistical outcome of teaching learning practice: A scientific review

[Reddy B.L.^a](#); [Reddy G.S.^b](#); [Reddy K.V.K.^a](#); [Reddy B.S.^a](#)

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^a Department of Physics, Chaitanya Bharathi Institute of Technology, Hyderabad, India^b Department of Physics, Mahatma Gandhi Institute of Technology, Hyderabad, India

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Abstract

The implementation of soft computing techniques in the process of rubric evaluation is of vital importance in the environment of teaching learning. The evaluation and teaching methodology in modern era have been a challenging tasks in the process of imparting knowledge to the students of modern society. Statistical outcome of in the environment of teaching and learning process is a real objective need to be achieved through many challenges and difficulties. There have been multiple parameters involved in assessment and evaluation which can be possible through implementation of Softcomputing algorithms. The various facts encountered in the teaching learnig practice need to be analyzed in order to attain the targets of motivating the students and establishing the human resources in intellectual directions. The subjects presented in the paper deals with the mechanism of evaluation and utilization of technological resources in teaching learning practices. The teaching is the most challenging practice which can influence society and therefore teacher with high standards in the system of higher learning needs to established with all requirements necessary to provide the clear

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Introducing and evaluating morphodent, a web-based learning program in dental morphology

Mitov, G. , Dillschneider, T. ,
Abed, M.R.
(2010) *Journal of Dental Education*

Teaching the teacher - The missing link in Australian clinical pharmacy training?

Cutts, C.
(2003) *Journal of Pharmacy Practice and Research*

Theories of learning: Models of good practice for evidence-based information skills teaching

Spring, H.
(2010) *Health Information and Libraries Journal*[View all related documents based on references](#)

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Radiation Protection Dosimetry • Volume 189, Issue 2, Pages 205 - 212 • 2021**Document type**

Article

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Journal

ISSN

01448420

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10.1093/RPD/NCAA032

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Indoor radon and thoron in the vicinity of proposed uranium mining site: A case study at Dasarlapally Village, Telangana State, India

[Suman G.^a](#); [Vinay Kumar Reddy K.^b](#); [Sreenath Reddy M.^a](#); [Gopal Reddy Ch.^a](#) ; [Yadagiri Reddy P.^a](#)

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^a Department of Physics, Osmania University, Hyderabad, 500007, India^b Department of Physics, Chaitanya Bharathi Institute of Technology, Hyderabad, 500 075, India
7 87th percentile
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Reaxys Chemistry database information

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SciVal Topics

Chemicals and CAS Registry Numbers

Metrics

Funding details

Abstract

Studies are being conducted for the past few decades in and around the uranium mining sites across the globe to identify environmental nuclear radiation risk to the common public. The area near Dasarlapally village was identified for uranium exploration by the AMDER, Hyderabad. The present study was carried out to measure the indoor radon and thoron activity concentrations in the dwellings of Dasarlapally village. For this purpose different types of dwellings were chosen randomly across the village. The measured annual average concentration of radon and thoron in dwellings were found to be 141 ± 42 and 139 ± 77 Bqm⁻³, respectively, and the calculated annual effective inhalation dose due to radon was determined to be 3.5 mSv. Seasonal variation and diurnal variation of radon and thoron

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Radiological assessment of ²²²Rn, ²²⁰Rn, EERC, and EETC in residential dwellings of district Palwal, Southern Haryana, India

Singh, B. , Kant, K. , Garg, M. (2022) *Journal of Radioanalytical and Nuclear Chemistry*

Inhalation dose from exposure to radon, thoron and their progeny in indoors around a nuclear power generation facility in Uttar Pradesh, India

Kumar, M. , Kumar, P. , Agrawal, A. (2022) *Indoor and Built Environment*

Assessment of indoor radon activity concentration levels in four northern districts of Telangana state, India

Srinivas Reddy, G. , Vinay Kumar Reddy, K. , Sreenivasa Reddy, B. (2021) *Journal of Radioanalytical and Nuclear Chemistry*

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Radon and thoron levels in the dwellings of Buddonithanda: a village in the environs of proposed uranium mining site, Nalgonda district, Telangana state, India

Suman, G. , Vinay Kumar Reddy, K. , Sreenath Reddy, M. (2021) *Scientific Reports*

A Review of Indoor and Outdoor Radon Equilibrium Factors - Part II: ²²⁰Rn

Chen, J. , Harley, N.H. (2018) *Health Physics*

Thoron studies in dwellings of certain northern districts of Telangana state, India

Reddy, G.S. , Reddy, K.V.K. , Reddy, B.S. (2021) *AIP Conference Proceedings*

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Russian Journal of Electrochemistry • Volume 56, Issue 8, Pages 626 - 629 • 1 August 2020

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Journal

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DOI

10.1134/S1023193520080054

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Synthesis and Electrochemical Analysis of $\text{Li}_3\text{Ti}_{0.75}(\text{MoO}_4)_3$ Phase with Lyonsite Structure

Saritha D.

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* Department of Chemistry, Chaitanya Bharathi Institute of Technology, Hyderabad, 500075,

Cited by 1 document

The lithium storage mechanism of a new Li_3Ti high-performance anode material and its applications for both half-cell and full-cell

Yao, H., Dong, Y., Duan, H. (2022) *Journal of Power Sources*

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Synthesis and Electrochemical Analysis of $\text{Li}_3\text{Ti}_{0.75}(\text{MoO}_4)_3$ Phase with Lyonsite Structure

By: Saritha, D. (Saritha, D.)

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RUSSIAN JOURNAL OF ELECTROCHEMISTRY

Volume: 56 Issue: 8 Page: 626-629

DOI: 10.1134/S1023193520080054

Published: AUG 2020

Indexed: 2020-09-25

Document Type: Article

Abstract

$\text{Li}_3\text{Ti}_{0.75}(\text{MoO}_4)_3$ compound crystallizes in lyonsite type structure. The structure was prepared by the solid state reaction method. Electrochemical lithium insertion was performed into sample for the first time. Preliminary studies were carried out to analyze the sample as electrode material for Li-ion batteries. The electrochemical charge-discharge curves shows insertion of 4.8Li is obtained in sample when discharged to 1.0 V and extraction of 3.8Li is observed during charge. A reversible capacity of 112 mAh/g is observed after 25 cycles.

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By: Jilloju, PC (Jilloju, Parameswara Chary) ^[1]; Persoons, L (Persoons, Leentje) ^[2]; Kurapati, SK (Kurapati, Sathish Kumar) ^[3], ^[4]; Schols, D (Schols, Dominique) ^[2]; De Jonghe, S (De Jonghe, Steven) ^[2]; Daelmans, D (Daelmans, Dirk) ^[2]; Vedula, RR (Vedula, Rajeswar Rao) ^[1]

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intermetallic Pd₃ X (X= Ti and Zr) nanocrystals for electro-oxidation of alcohols and formic acid in alkaline and acidic media

Kodiyath, Rajesh^a; V. Ramesh, Gubbala^{a,b}; Manikandan, Maidhily^a; Ueda, Shigenori^c; Fujita, Takeshi^d;

Abe, Hideki^c

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The effect of thermal modulation on double diffusive convection in the presence of applied magnetic field and internal heat source

[Manjula S.H.^a](#) ; [Suresh P.^b](#); [Rao M.G.^b](#) [Save all to author list](#)^a Department of Sciences and Humanities, Division of Mathematics Vignana's Foundation for Science, Technology and Research Guntur, Andhra Pradesh, 522213, India^b Department of Mathematics, Chaitanya Bharathi Institute of Technology, Gandipet, Hyderabad, Telangana, 500075, India

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The investigation of thermal modulation on double-diffusive stationary convection in the presence of an applied magnetic field and internal heating is carried out. A weakly nonlinear stability analysis has been performed using the finite-amplitude Ginzburg-Landau model. This finite amplitude of convection is obtained at the third order of the system. The study considers three different forms of

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The time periodic solutal effect on oscillatory convection in an electrically conducting fluid layer

Kiran, P. , Manjula, S.H. , Suresh, P. (2020) *AIP Conference Proceedings*

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The Complex Ginzburg Landau Model for an Oscillatory Convection in a Rotating Fluid Layer

Manjula S.H.^a; Kiran P.^b ; Reddy, P. Raj^b; Bhadauria B.S.^c

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^a Department of Mathematics, VFSTR, Guntur, Vadlamudi, Andhra Pradesh, 522213, India^b Department of Mathematics, Chaitanya Bharathi Institute of Technology, Gandipet, Hyderabad, Telangana, 500075, India^c Department of Applied Mathematics, Babasaheb Bhimrao Ambedkar University, VidyaVihar, Raebareli Road, Lucknow, 226025, India

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Abstract

A weakly nonlinear thermal instability is investigated under rotation speed modulation. Using the perturbation analysis, a nonlinear physical model is simplified to determine the convective amplitude for oscillatory mode. A non-autonomous complex Ginzburg-Landau equation for the finite amplitude of convection is derived based on a small perturbed parameter. The effect of rotation is found either to stabilize or destabilize the system. The Nusselt number is obtained numerically to present the results

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Rudziva, M. , Sibanda, P. , Noreldin, O.A.I.
(2021) *Heat Transfer*

The effect of thermal modulation on double diffusive convection in the presence of applied magnetic field and internal heat source

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Concentration modulation effect on weakly nonlinear thermal instability in a rotating porous medium

[Kiran P.](#) [Save all to author list](#)

^a Department of Mathematics, Chaitanya Bharathi Institute of Technology, Gandipet, Hyderabad, Telangana, 500075, India

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[Abstract](#)[Author keywords](#)[SciVal Topics](#)[Metrics](#)[Funding details](#)**Abstract**

The present article is to study mass transfer in a rotating porous layer subjected to imposed time-periodic solutal boundaries. A weakly nonlinear analysis is applied to investigate mass transfer in a porous medium. The mass transfer coefficient is calculated by cubic Ginzburg Landau (GLE) amplitude equation. In this article the stationary convection is discussed in the presence of rotating solutal Rayleigh number. The amplitude equation (GLE) is solved numerically to calculate finite temporal convective amplitude. This amplitude is used to find Sherwood number in terms of the

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Ali, S.A. , Rudziva, M. , Sibanda, P.

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Murugan, D. , Sekar, R.

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On trigonometric cosine, square, sawtooth, and triangular wave-type rotational modulations on triple-diffusive convection in salted water

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The Effect of Modulation on Heat Transport by a Weakly Nonlinear Thermal Instability in the Presence of Applied Magnetic Field and Internal Heating

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The time periodic solutal effect on oscillatory convection in an electrically conducting fluid layer

[Kiran, Palle^a](#) ; [Manjula S.H.^b](#); [Suresh P.^a](#); [Reddy, P. Raj^a](#) [Save all to author list](#)

^a Department of Mathematics, Chailanya Bharathi Institute of Technology Gandipet, Hyderabad, Telangana, 500075, India

^b Division of Mathematics Department of Science and Humanities, VFSTR, Guntur, Andhra Pradesh, 522213, India

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The present article is to study mass transfer in an electrically conducting Newtonian fluid layer subject to imposed time-periodic solutal modulation. The mass transfer coefficient is calculated by complex Ginzburg Landau (CGLE) amplitude equation. It is a cubic equation involving oscillatory finite amplitude and obtained using solvability condition. A weakly nonlinear analysis is applied to investigate mass transfer in the layer. The oscillatory convection is discussed in the presence of

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The Effect of Modulation on Heat Transport by a Weakly Nonlinear Thermal Instability in the Presence of Applied Magnetic Field and Internal Heating

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The effect of gravity driven thermal instability in the presence of applied magnetic field and internal heating

Manjula S.H.^a; Kiran, Palle^b ; Narayanamoorthy S.^c

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^a Division of Mathematics, Department of Science and Humanities, Guntur, Andhra Pradesh, 522213, India

^b Department of Mathematics, Chaitanya Bharathi Institute of Technology, Hyderabad, Telangana, 500075, India

^c Bharathiar University, Coimbatore, Tamil Nadu, 641046, India

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This paper deals with the weakly nonlinear thermal instability problem between two infinite parallel surfaces under an imposed magnetic field and time-periodic gravity modulation. In this case gravity has two parts: a constant part and an externally imposed time-dependent part. In addition to applied magnetic field, the layer is heated internally. We focus on stationary convection using the slow time scale and arrive at the real Ginzburg-Landau equation. The classical fourth order Runge-

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Tiruneh, A.A. , Derese, G.A. , Tefera, D.M.
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A perspective of the machine learning approach for the packet classification in the software defined network

Indira B.^a ; Valarmathi K.^b

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^a Department of Computer Science and Engineering, P.S.R. Engineering College, Sivakasi, 626 140, India

^b Department of Electronics and Communication Engineering, P.S.R. Engineering College, Sivakasi, 626 140, India

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^a Dept. of CSE at Dr.MCET, Pollachi, India

^b Dept. of CSE at PSR Engineering College, Sivakasi, India

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Abstract

Packet classification in software-defined network has become more important with the rapid growth of Internet. Existing approaches focused on the data structure algorithms to classify the packets. But the existing algorithms lead to the problem of time budget and fails to accommodate large rule sets. Thus the key task is to design an algorithm for packet classification that inflicts process overhead, and the algorithm should handle large databases of classification rule. These challenging issues are achieved by proposing rectified linear unit deep neural network. The aim of this work is twofold. First various hyper-parameter values are

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The role of brand community identification and reward on consumer brand engagement and brand loyalty in virtual brand communities

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TELEMATICS AND INFORMATICS

Volume: 46

Article Number: 101321

DOI: 10.1016/j.tele.2019.101321

Published: MAR 2020

Indexed: 2020-02-12

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Abstract

With the advent of interactive Web 2.0 (and beyond) technologies, the role of consumer brand engagement (CBE), which focuses on the consumer's investment in their brand interactions, is of rapidly growing importance. Despite growing recognition of CBE's importance in virtual brand communities, empirically-derived insight into its drivers, dynamics, and outcomes remains limited, as investigated in this study. Responding to this gap, we explore the effect of consumers' brand community identification and reward on CBE, which we posit to subsequently affect brand loyalty. To investigate our hypotheses, we conducted a survey with 602 Facebook users. Our structural equation modeling results reveal brand community identification's and reward's positive effect on CBE, and a positive effect of CBE on brand loyalty. In addition, our findings reveal CBE's partial mediating effect in the association of brand community identification and reward with brand loyalty. Theoretically, our findings further insight into CBE's virtual community-based dynamics, with a focus on the role of community

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