



CRITERION 3
Research, Innovations and Extension

3.4 Research Publications and Awards

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

**Books and Chapters in edited volumes/books published and
papers in national/ international conference proceedings**

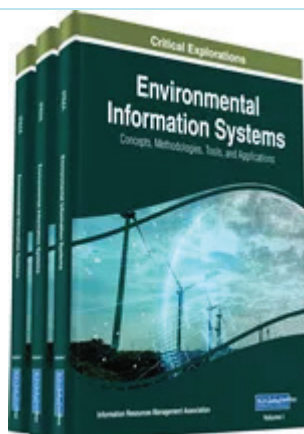
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Sugeno Fuzzy-Inference-System-Based Land Cover Classification of Remotely Sensed Images

Jenicka S. (Anna University Chennai, India)

Source Title: Environmental Information Systems: Concepts, Methodologies, Tools, and Applications (/book/environmental-information-systems/202353)

Copyright: © 2019

Pages: 37

DOI: 10.4018/978-1-5225-7033-2.ch057

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Abstract

Accuracy of land cover classification in remotely sensed images relies on the features extracted and the classifier used. Texture features are significant in land cover classification. Traditional texture models capture only patterns with discrete boundaries whereas fuzzy patterns need to be classified by assigning due weightage to uncertainty. When remotely sensed image contains noise, the image may have fuzzy patterns characterizing land covers and fuzzy boundaries separating land covers. So a fuzzy texture model is proposed for effective classification of land covers in remotely sensed images and the model uses Sugeno Fuzzy Inference System (FIS). Support Vector Machine (SVM) is used for precise and fast classification of image pixels. Hence it is proposed to use a hybrid of fuzzy texture model and SVM for land cover classification of remotely sensed images. In this chapter, land cover classification of IRS-P6, LISS-IV remotely sensed image is performed using multivariate version of the proposed texture model.

Chapter Preview

Top

Background



Electrical Power Systems

Analysis, Security and Deregulation

P. Venkatesh
B.V. Manikandan
S. Charles Raja
A. Srinivasan





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Materials Today: Proceedings • Volume 35, Pages 11 - 12 • 2019 • 2019 International Conference on Exploring Nanostructures for Enhanced Power Conversion Efficiency of Solar Cells, ICENES 2019 • Gandhigram • 7 January 2019 through 8 January 2019 • Code 167196

Document type

Conference Paper

Source type

Journal

ISSN

22147853

DOI

10.1016/j.matpr.2019.05.301

[View more](#)

Study of phase transition in Cu-doped $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ perovskite manganite materials by ultrasonic technique

[Sakthipandi K.^a](#) ; [Sivabharathy M.^a](#) ; [Kumar, A. Senthil^b](#)

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^a Department of Physics, Sethu Institute of Technology, Kariapatti, Tamil Nadu, 626 115, India^b Department of Mechanical Engineering, Sethu Institute of Technology, Kariapatti, Tamil Nadu, 626 115, India
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[Abstract](#)[Author keywords](#)[Indexed keywords](#)[Sustainable Development Goals 2022](#)[SciVal Topics](#)[Metrics](#)[Funding details](#)**Abstract**

$\text{La}_{0.7}\text{Sr}_{0.3}\text{Mn}_{1-x}\text{Cu}_x\text{O}_3$ perovskite manganite materials with a composition of $x = 0.05, 0.10$ and 0.15 were obtained using solid state reaction technique. The measurement of ultrasonic velocity over a wide range of temperature reveals the short range ferromagnetic to the antiferromagnetic transition temperature (T_C) at $358, 341$ and 328 K for the perovskites with the composition $x = 0.05, 0.10$ and 0.15 respectively. Turning of T_C was achieved from 370 ($x = 0$) to 328 ($x = 0.15$) K which helps to obtain the

Cited by 3 documents

Double-doping Effect on Structural and Magnetic Properties of Perovskite Lanthanum Manganite

Hanna, F.F. , Ibrahim, P.N.G. (2022) *ECS Journal of Solid State Science and Technology*

Green synthesis, characterization and antimicrobial activities of silver nanoparticles using Cissus quadrangularis leaf extract

Mahendran, N. , Anand, B. , Rajarajan, M. (2021) *Materials Today: Proceedings*

Study on structural, electro-optical and optoelectronics properties of CuO nanoparticles synthesis via sol gel method

Sivayogam, D. , Kartharinal Punithavathy, I. , Johnson Jayakumar, S. (2019) *Materials Today: Proceedings*

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Study of the effect of Cu doping in $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ perovskite materials employing on-line ultrasonic measurements

Tamilmaran, P. , Arunachalam, M. , Sankarajan, S. (2017) *Journal of Magnetism and Magnetic Materials*

Structure and morphology of copper substituted

Syahrizal, R.F. , Kurniawan, B. (2020) *Key Engineering Materials*

Electrical properties and enhanced room temperature magnetoresistance in $(\text{La}_{0.7}\text{Ca}_{0.3})_{1-x}\text{Sr}_x\text{MnO}_3$ composites

Xiong, C. , Hu, H. , Xiong, Y. (2009) *Journal of Alloys and Compounds*

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Materials Today: Proceedings • Volume 22, Pages 2606 - 2613 • 2019 • 2nd International Conference on Materials Manufacturing and Modelling, ICMMM 2019 • Vellore • 29 March 2019 through 31 March 2019 • Code 159945

Document type

Conference Paper

Source type

Journal

ISSN

22147853

DOI

10.1016/j.matpr.2020.03.391

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Effect of Stir Casting Parameters on Properties of Cast Metal Matrix Composite

Ravichandran M.^a ; Meignanamoorthy M.^b; Chellasivam G.P.^c; **Vairamuthu J.^d**; Kumar, A.Senthil^d; Stalin B.^e

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^a Department of Mechanical Engineering, K.Ramakrishnan College of Engineering, Trichy, 621 112, India^b Department of Mechanical Engineering, Mother Theresa College of Engineering and Technology, Pudukkottai, 621 112, India^c Department of Mechanical Engineering, Chendhuran College of Engineering and Technology, Pudukkottai, 622 507, India^d Department of Mechanical Engineering, Sethu Institute of Technology, Vrudhunagar, 626115, India[View additional affiliations](#)

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Abstract[Author keywords](#)[Reaxys Chemistry database information](#)[Indexed keywords](#)[SciVal Topics](#)[Metrics](#)**Abstract**

In the current investigation, aluminium matrix composite (AMC) was successfully fabricated by liquid melt method and the effect of stir casting (SC) parameters namely Temperature (Temperature), Stir Speed S (SS) and Stir Time (ST) on the properties was studied using Taguchi L9 orthogonal array experimental design. The melting temperature of SS and ST were selected as input parameters and the

Cited by 19 documents

Manufacturing and optimization of the effect of casting process parameters on the compressive strength of aluminum/pumice/carbonated coal hybrid composites: Taguchi and regression analysis approach

Ibrahim, T.K. , Yawas, D.S. , Dan-asabe, B.
(2023) *International Journal of Advanced Manufacturing Technology*

Pressure Infiltration of Aluminum Melts into a Loose Bed of Hollow Cenosphere Particles

Kim, J. , Kordijazi, A. , Rohatgi, P.
(2022) *JOM*

The Effect of Stir-Squeeze Casting Process Parameters on Mechanical Property and Density of Aluminum Matrix Composite

Vijayakumar, S. , Satheesh Kumar, P.S. , Sampath Kumar, P.
(2022) *Advances in Materials Science and Engineering*

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Characterisation of aluminium alloy (Lm6) metal matrix composite reinforced with copper slag/ferro sand

Prabhakaran, A. , Arul, S.
(2019) *International Journal of Innovative Technology and Exploring Engineering*

The effect of pouring temperature and surface angle of vortex casting on microstructural changes and mechanical properties of 7050Al-3wt% SiC composite

Mousavi Anijdan, S.H. , Sabzi, M.
(2018) *Materials Science and Engineering A*

Effect of Particle Size on Properties of Industrial and Agro Waste-Reinforced Aluminum-Matrix Composite

Panda, S.S. , Senapati, A.K. , Rao, P.S.
(2021) *JOM*

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Proceedings of the 3rd International Conference on Inventive Systems and Control, ICISC 2019 • Pages 336 - 341 • January 2019 • Article number 9036399 • 3rd International Conference on Inventive Systems and Control, ICISC 2019 • Coimbatore • 10 January 2019 through 11 January 2019 • Code 158595

Document type

Conference Paper

Source type

Conference Proceedings

ISBN

978-153863950-4

DOI

10.1109/ICISC44355.2019.9036399

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Design Implementation of Single Switch DC-DC Resonant Converter for Hybrid Vehicle

Kanna, G.R. Rajesh^a ; Muthulakshmi K.^a ; Vinitha, S. Raja^a ; Raja, R.M. Sasi^b

[Save all to author list](#)

^a Kamaraj College of Engineering and Technology, Department of Electrical and Electronics Engineering, Madurai, India

^b Sethu Institute of Technology, Department of Electrical and Electronics Engineering, Viruthunagar, India

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

In this paper, a innovate single-switch resonant DC-DC power converter for a hybrid vehicle with renewable energy generation operations for the hybrid vehicle are developed. This circuit Scheme combines a innovate resonant DC-DC converter with energy-blocking diode with zero-current switching (ZCS) and zero-voltage switching (ZVS). The output level of the innovate single-switch DC-DC resonant converter was filtered by using direct-current(DC) output blocking diode. To decrease the price of the control circuits. For power energy conversion only one active power switch was provided. The PWM at a constant duty cycle, the fixed switching frequency is used to control the active power switch. When the DC-DC resonant converter works at irregular conduction mode. At that time inductor

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Design and development of Truncated Angle Variant (TAV) controller for multi-source-fed BLDC motor drive

Rajesh Kanna, G.R. , Sasiraja, R.M. , Prince Winston, D. (2020) *Electrical Engineering*

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Performance prediction of light electric vehicles powered by body-integrated super-capacitors

Xue, X.D. , Cheng, K.W.E. , Raghu Raman, S. (2016) *2016 International Conference on Electrical Systems for Aircraft, Railway, Ship Propulsion and Road Vehicles and International Transportation Electrification Conference, ESARS-ITEC 2016*

Experimental investigation on output power enhancement of partial shaded solar photovoltaic system

Prince Winston, D. , Ganesan, K. , Praveen Kumar, B. (2020) *Energy Sources, Part A: Recovery, Utilization and Environmental Effects*

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ACM International Conference Proceeding Series • Volume Part F147765, Pages 8 - 13 • 2019 • 2nd International Conference on Image and Graphics Processing, ICI GP 2019 • Singapore • 23 February 2019 through 25 February 2019 • Code 147765

Document type

Conference Paper

Source type

Conference Proceedings

ISBN

978-145036092-0

DOI

10.1145/3313950.3313961

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Age Invariant Face Recognition using Frangi2D Binary Pattern

Afroze, Sabah ; Beham, M. Parisa ; Tamilselvi R. ; Maraikkayar, S.M. Seeni Mohamed Aliar; Rajakumar K.

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^a Department of Electronics and Communication Engineering, Sethu Institute of Technology, Tamilnadu, 626115, India

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Abstract

The field of computer vision is devoted to discovering algorithms, data representations and computer architectures that embody the principles underlying visual capabilities. Computer vision is an interdisciplinary field that deals with how computers can be made for gaining high level understanding from digital images or videos. While very promising result has been shown on face recognition related problems, age invariant face recognition still relics a challenge. Facial appearance of a human varies over time, which results in substantial intra-class variations. In order to address this problem, we propose Frangi2D method for normalization, Linear Binary pattern (LBP) for feature extraction and Sparse Representation Classifier (SRC). Extensive results on a well-known public domain face aging dataset: MORPH. The experimental results show the superiority of our proposed method in age invariant face recognition. © 2019 Copyright is held by the owner/author(s). Publication rights licensed to ACM.

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Sajid, M. , Ali, N. , Ratyal, N.I. (2022) *Computer Journal*

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Face recognition across aging using GLBP features

Nimbarte, M. , Bhoyar, K.K. (2018) *Smart Innovation, Systems and Technologies*

Biased face patching approach for age invariant face recognition using convolutional neural network

Nimbarte, M. , Bhoyar, K.K. (2020) *International Journal of Intelligent Systems Technologies and Applications*

A Local Descriptor for Age Invariant Face Recognition under Uncontrolled Environment

Tripathi, R.K. , Jalal, A.S. (2021) *ICSCCC 2021 - International Conference on Secure Cyber Computing and Communications*

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Innovations in Electronics and Communication Engineering pp 3–14

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Detection and Classification of Exudates and Non-exudates in Retinal Images

[R. Tamilselvi](#) , [M. Parisa Beham](#), [A. Merline](#) & [V. Parthasarathy](#)

Conference paper | [First Online: 08 February 2019](#)

630 Accesses

Part of the [Lecture Notes in Networks and Systems](#) book series (LNNS, volume 65)

Abstract

The retina of human eye plays a key function in the vision, and it is a light-sensitive layer. The optics of eye produces an image figure in the retina. The various eye diseases like diabetic retinopathy, myopia, macular pucker, and macular hole have an effect on the retina. The retina is affected by these diseases which are vascular disease and cause vision mutilation and blindness. These diseases happen due to diabetics, aging, and nearsightedness. Exudates are the pathological condition of the retina. So the early detection of

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Role of X-Rays in Assessment of Bone Mineral Density—A Review

Authors : S. M. Nazia Fathima, R. Tamilselvi, M. Parisa Beham

Published in: Innovations in Electronics and Communication Engineering

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Proceedings of the 3rd International Conference on I-SMAC IoT in Social, Mobile, Analytics and Cloud, I-SMAC 2019

Pages 496 - 500 • December 2019 • Article number 9032625 • 3rd International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud), I-SMAC 2019 • Palladam • 12 December 2019 through 14 December 2019 • Code 158464

Document type

Conference Paper

Source type

Conference Proceedings

ISBN

978-172814365-1

DOI

10.1109/I-SMAC47947.2019.9032625

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Motion Artifact Removal for Bio Signals using Regularized Autoencoder

[Evangelin D.^a](#) ; [Ithayarani P.^a](#) ; [Jebastin, J. Nelson Samuel^b](#)

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^a Sethu Institute of Technology, Department of Computer Science and Engineering, Kariapatti, India^b Annamalai University, Department of Bioinformatics, Chidambaram, India
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Abstract[Author keywords](#)[Indexed keywords](#)[SciVal Topics](#)[Metrics](#)**Abstract**

The advancements in wireless communication technology and micro electro mechanical system (MEMS) based sensor technology led to the rise of body area communication in healthcare field. The bio signals acquired through this on-body communication mainly suffers from motion artifacts caused by shadowing due to the body shape and body movement. These noises may lead to wrong prediction on data. Therefore, it is important to consider denoising the bio signals in order to perform accurate diagnosis and analysis. This paper proposes regularized denoising autoencoder (DAE) to reconstruct the clean signal from its noisy form. Here two regularization terms L1 and L2 which updates the cost function to avoid over fitting problem. This paper proves that L1 is better than L2 in terms of recovering the signal quality and it is measured by Signal to Noise Ratio (SNR). The dataset used here are taken from a neurokit a python tool box for statistics and neurophysiological signal processing. © 2019 IEEE.

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Deep learning-based extended field of view computed tomography image reconstruction: influence of network design on image estimation outside the scan field of view

Khural, B.S. , Baer-Beck, M. , Fournié, E.
(2022) *Biomedical Physics and Engineering Express*

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A novel dimensionality reduction approach for ECG signal via convolutional denoising autoencoder with LSTM

Dasan, E. , Panneerselvam, I.
(2021) *Biomedical Signal Processing and Control*

Hearing AIDS APP design based on deep learning technology

Han, J.Y. , Zheng, W.Z. , Huang, R.J.
(2018) *2018 11th International Symposium on Chinese Spoken Language Processing, ISCSLP 2018 - Proceedings*

Noise Reduction in ECG Signals Using Fully Convolutional Denoising Autoencoders

Chiang, H.-T. , Hsieh, Y.-Y. , Fu, S.-W.
(2019) *IEEE Access*

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2019 International Conference on Wireless Communications, Signal Processing and Networking, WISPNET 2019 • Pages 508 - 511 • March 2019 • Article number 9032811 • 2019 International Conference on Wireless Communications, Signal Processing and Networking, WISPNET 2019 • Chennai • 21 March 2019 through 23 March 2019 • Code 158510

Document type

Conference Paper

Source type

Conference Proceedings

ISBN

978-153869279-0

DOI

10.1109/WISPNET45539.2019.9032811

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Classification of MR brain images for detection of tumor with transfer learning from pre-trained CNN models

[Prakash, R. Meena^a](#) ; [Kumari, R. Shantha Selva^b](#)

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^a Sethu Institute of Technology, Department of Electronics and Communication Engineering, Kariapatti, India

^b Mepco Schlenk Engineering College, Department of Electronics and Communication Engineering, Sivakasi, India

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Magnetic resonance imaging is one of the non-invasive imaging techniques widely employed to diagnose brain diseases. Early diagnosis and treatment of brain tumors is essential. It is a time consuming process for the radiologists to manually classify MR brain images into normal and images with tumors. In this paper, an automated method based on Convolutional Neural Network (CNN) is proposed for detection of tumor in brain images. The CNN model pre-trained on the huge image database of ImageNet, is used to train the input brain images. The high level features extracted are given as input to the fully connected layer followed by softmax activation. The method is tested on MR brain images from database of Harvard medical school. An analysis is done with utilization of three

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Pre-training in Medical Data: A Survey

Qiu, Y. , Lin, F. , Chen, W. (2023) *Machine Intelligence Research*

Parallel Dense Skip-Connected CNN Approach for Brain Tumor Classification

Yogeswararao, G. , Naresh, V. , Malmathanraj, R. (2023) *Current Applications of Deep Learning in Cancer Diagnostics*

A Novel Machine-Learning-Based Hybrid CNN Model for Tumor Identification in Medical Image Processing

Dhiman, G. , Juneja, S. , Viriyasitavat, W. (2022) *Sustainability (Switzerland)*

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A survey on brain tumor detection based on structural MRI using machine learning and deep learning techniques

Joshi, D. , Channe, H. (2020) *International Journal of Scientific and Technology Research*

Parallel Deep CNN structure for glioma detection and classification via brain MRI Images

Abd-Allah, M.K. , Awad, A.I. , Hamed, H.F.A. (2019) *Proceedings of the International Conference on Microelectronics, ICM*

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2019 International Conference on Data Science and Communication, IconDSC 2019 • March 2019 • Article number 8817050 •
 2019 International Conference on Data Science and Communication, IconDSC 2019 • Bangalore • 1 March 2019through 2 March 2019 • Code 151620

Document type

Conference Paper

Source type

Conference Proceedings

ISBN

978-153869319-3

DOI

10.1109/IconDSC.2019.8817050

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Performance Study of Fetal ECG Mining and Heart Rate Measurement

Sabah Afroze A.^a ; [Tamilselvi R.](#)^a ; [Parisa Beham M.](#)^a ;

[Maraikkavar, S.M. Seeni Mohamed Aliar](#)^b ; [Rajakumar K.](#)^b

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^a ECE department, Sethu Institute of Technology, Virudhunagar, India

^b CSE department, Sethu Institute of Technology, Virudhunagar, India

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Invariant heart beat span versus variant heart beat intervals and its application to fetal ECG extraction

Yan, H. , Liu, H. , Huang, X. (2014) *BioMedical Engineering Online*

Extraction of fetal heart rate and respiratory rate from abdominal electrocardiogram

Shamira, J. , Tamilselvi, R. (2016) *Pakistan Journal of Biotechnology*

Hierarchical probabilistic framework for fetal R-peak detection, using ECG waveform and heart rate information

Warmerdam, G.J.J. , Vullings, R. , Schmitt, L. (2018) *IEEE Transactions on Signal Processing*

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Abstract

Arena of electrocardiography (ECG) has been in presence for over a span, however regardless of noteworthy progresses in grown clinical electrocardiography, information analysis methods and advanced devices, the examination of unborn ECGs is silent in bud stage. This picture is, somewhat because of an absence of accessibility of unique databases, incompletely because of the abstemiously minimal signal and noise factor of the ECG signal derived from the fetus is contrasted with the maternal ECG which is measured by the electrodes and partially due to the fewer data of the clinical information, in relation to fetal cardiac function and improvement. Motivated by this above issues, in this paper we survey a scope of various preprocessing, extraction and assessment of Heart rate for unborn ECG examination that have been produced in the recent forty eons, and confer about their deficiencies and plusses. © 2019 IEEE.



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2019 5th International Conference on Advanced Computing and Communication Systems, ICACCS 2019 • Pages 858 - 862 • March 2019 • Article number 8728365 • 5th International Conference on Advanced Computing and Communication Systems, ICACCS 2019 • Coimbatore • 15 March 2019 through 16 March 2019 • Code 148637

Document type

Conference Paper

Source type

Conference Proceedings

ISBN

978-153869533-3

DOI

10.1109/ICACCS.2019.8728365

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Implementation of Environment Parameters Monitoring in a Manufacturing Industry using IOT

[Gayathri K.](#)
[Save all to author list](#)^a Dept. of Computer and Communication Engineering, Sethu Institute of Technology, kariapatti, India
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[Abstract](#)[Author keywords](#)[Indexed keywords](#)[Sustainable Development Goals 2022](#)[SciVal Topics](#)[Metrics](#)**Abstract**

To Design and develop a low cost real-time monitoring, alert to workers, notified data of polluted area has been checked for the immediate surroundings. A various parameter such as Air Quality, Temperature Humidity, and Sound intensity sensors with PIC controller which collects and upload data into the cloud using ESP8266 Wi-Fi module. Then transmit to the cloud platform using MQTT protocol to perform Digital Dashboard on Smartphone checks anomaly notification and alert to the user through a web page. If the industry doesn't take any step to reduce the pollution within a certain period, the pollution control board will shut down the industrial electricity power until they pay a penalty amount of polluting the city according to the government rules and regulation. © 2019 IEEE.

Cited by 4 documents

IoT-based system for monitoring conditions in an industrial painting booth

Velasco-Hernandez, G. , Mirani, A.A. , Awasthi, A. (2022) *2022 33rd Irish Signals and Systems Conference, ISSC 2022*

Smart and Sustainable Cities in Collaboration with IoT: The Singapore Success Case

Ferro-Escobar, R. , Vacca-González, H. , Gómez-Castillo, H. (2022) *Intelligent Systems Reference Library*

Prediction and monitoring of air pollution using internet of things (IoT)

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Development of an IoT-based atmospheric environment monitoring system

Kim, S.H. , Jeong, J.M. , Hwang, M.T. (2017) *International Conference on Information and Communication Technology Convergence: ICT Convergence Technologies Leading the Fourth Industrial Revolution, ICTC 2017*

Development of an IOT-Based Atmospheric Fine Dust Monitoring System

Kavitha, N. , Madhumathy, P. (2020) *Studies in Systems, Decision and Control*

Concentration of PM10, Heavy Metals, VOCs in the air and relation to upper respiratory diseases in Korea

Han, Y.-D. , Jung, S.-H. , Yoon, J. (2020) *16th Conference of the International Society of Indoor Air Quality and Climate: Creative and Smart Solutions for Better Built Environments, Indoor Air 2020*



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ACM International Conference Proceeding Series • Pages 220 - 224 • 19 January 2019 • 3rd International Conference on Cryptography, Security and Privacy, ICCSP 2019 with Workshop 2019 the 4th International Conference on Multimedia and Image Processing, ICMIP 2019 • Kuala Lumpur • 19 January 2019 through 21 January 2019 • Code 147274

Document type

Conference Paper

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Estimation of T-score and BMD values from X-ray images for detection of osteoporosis

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Biomedical engineering concepts are related to biotechnology that is used for various healthcare purposes. Osteoporosis is a bone disease that is characterized by decrease in the Bone Mineral Density (BMD) which results in the fracture risk in the bone. Osteoporosis can be competently identified by computing various parameters like Bone mineral density (BMD), numerical features such as T-score and Z-score from various regions such as spine, femur etc. The proposed paper involves a challenge to relate digital image analysis methods to the evaluation of bone mineral density based on the X-ray images. In present scenario, more research is carried out in diagnosis of osteoporosis and it is a major challenging task in the medical field. So motivated by this, a X-Ray database is created and Images of spine, knee, hip and clavicle bones are considered for our study. Shock filter is included in the image preprocessing to improve the image intensity. The impact of image noise is investigated through the Peak Signal to Noise Ratio (PSNR) and thus demonstrating the necessity for image preprocessing before analysis. The Bone Mineral density can be realized by various segmentation methods such as Active

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A Deep Learning Approach on Segmentation of Bone for BMD Measurement from DEXA Scan Images

Fathima, S.M.N. , Tamilselvi, R. , Beham, M.P.
(2020) 2020 6th International Conference on Bio Signals, Images, and Instrumentation, ICBSII 2020

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