

Roshan Joy Martis

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

4,378
citations

185998

28
h-index

233125

45
g-index

60
all docs

60
docs citations

60
times ranked

3697
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Automated EEG analysis of epilepsy: A review. Knowledge-Based Systems, 2013, 45, 147-165. | 4.0 | 588 |
| 2 | ECG beat classification using PCA, LDA, ICA and Discrete Wavelet Transform. Biomedical Signal Processing and Control, 2013, 8, 437-448. | 3.5 | 545 |
| 3 | Application of principal component analysis to ECG signals for automated diagnosis of cardiac health. Expert Systems With Applications, 2012, 39, 11792-11800. | 4.4 | 242 |
| 4 | Current methods in electrocardiogram characterization. Computers in Biology and Medicine, 2014, 48, 133-149. | 3.9 | 198 |
| 5 | APPLICATION OF EMPIRICAL MODE DECOMPOSITION (EMD) FOR AUTOMATED DETECTION OF EPILEPSY USING EEG SIGNALS. International Journal of Neural Systems, 2012, 22, 1250027. | 3.2 | 196 |
| 6 | Automated diagnosis of Coronary Artery Disease affected patients using LDA, PCA, ICA and Discrete Wavelet Transform. Knowledge-Based Systems, 2013, 37, 274-282. | 4.0 | 192 |
| 7 | Automated detection and localization of myocardial infarction using electrocardiogram: a comparative study of different leads. Knowledge-Based Systems, 2016, 99, 146-156. | 4.0 | 190 |
| 8 | Cardiac decision making using higher order spectra. Biomedical Signal Processing and Control, 2013, 8, 193-203. | 3.5 | 178 |
| 9 | APPLICATION OF HIGHER ORDER CUMULANT FEATURES FOR CARDIAC HEALTH DIAGNOSIS USING ECG SIGNALS. International Journal of Neural Systems, 2013, 23, 1350014. | 3.2 | 150 |
| 10 | Linear and nonlinear analysis of normal and CAD-affected heart rate signals. Computer Methods and Programs in Biomedicine, 2014, 113, 55-68. | 2.6 | 145 |
| 11 | Evolutionary algorithm based classifier parameter tuning for automatic diabetic retinopathy grading: A hybrid feature extraction approach. Knowledge-Based Systems, 2013, 39, 9-22. | 4.0 | 140 |
| 12 | Automated classification of glaucoma stages using higher order cumulant features. Biomedical Signal Processing and Control, 2014, 10, 174-183. | 3.5 | 122 |
| 13 | AUTOMATED DIAGNOSIS OF EPILEPSY USING CWT, HOS AND TEXTURE PARAMETERS. International Journal of Neural Systems, 2013, 23, 1350009. | 3.2 | 113 |
| 14 | Application of higher-order spectra for the characterization of Coronary artery disease using electrocardiogram signals. Biomedical Signal Processing and Control, 2017, 31, 31-43. | 3.5 | 109 |
| 15 | Application of higher order statistics for atrial arrhythmia classification. Biomedical Signal Processing and Control, 2013, 8, 888-900. | 3.5 | 102 |
| 16 | APPLICATION OF INTRINSIC TIME-SCALE DECOMPOSITION (ITD) TO EEG SIGNALS FOR AUTOMATED SEIZURE PREDICTION. International Journal of Neural Systems, 2013, 23, 1350023. | 3.2 | 101 |
| 17 | Characterization of ECG beats from cardiac arrhythmia using discrete cosine transform in PCA framework. Knowledge-Based Systems, 2013, 45, 76-82. | 4.0 | 98 |
| 18 | A two-stage mechanism for registration and classification of ECG using Gaussian mixture model. Pattern Recognition, 2009, 42, 2979-2988. | 5.1 | 89 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Computer aided diagnosis of atrial arrhythmia using dimensionality reduction methods on transform domain representation. Biomedical Signal Processing and Control, 2014, 13, 295-305. | 3.5 | 85 |
| 20 | Automated detection of atrial fibrillation using Bayesian paradigm. Knowledge-Based Systems, 2013, 54, 269-275. | 4.0 | 67 |
| 21 | Asymmetry analysis of breast thermograms using automated segmentation and texture features. Signal, Image and Video Processing, 2017, 11, 745-752. | 1.7 | 63 |
| 22 | DIAGNOSIS OF MULTICLASS TACHYCARDIA BEATS USING RECURRENCE QUANTIFICATION ANALYSIS AND ENSEMBLE CLASSIFIERS. Journal of Mechanics in Medicine and Biology, 2016, 16, 1640005. | 0.3 | 62 |
| 23 | Automated Screening of Arrhythmia Using Wavelet Based Machine Learning Techniques. Journal of Medical Systems, 2012, 36, 677-688. | 2.2 | 48 |
| 24 | Computer-aided diabetic retinopathy detection using trace transforms on digital fundus images. Medical and Biological Engineering and Computing, 2014, 52, 663-672. | 1.6 | 45 |
| 25 | Machine intelligent diagnosis of ECG for arrhythmia classification using DWT, ICA and SVM techniques. , 2015, , . | | 45 |
| 26 | EPILEPTIC EEG CLASSIFICATION USING NONLINEAR PARAMETERS ON DIFFERENT FREQUENCY BANDS. Journal of Mechanics in Medicine and Biology, 2015, 15, 1550040. | 0.3 | 45 |
| 27 | Prostate Tissue Characterization/Classification in 144 Patient Population Using Wavelet and Higher Order Spectra Features from Transrectal Ultrasound Images. Technology in Cancer Research and Treatment, 2013, 12, 545-557. | 0.8 | 44 |
| 28 | Application of higher order cumulants to ECG signals for the cardiac health diagnosis. , 2011, 2011, 1697-700. | | 37 |
| 29 | A Novel Fusion Approach for Early Lung Cancer Detection Using Computer Aided Diagnosis Techniques. Journal of Medical Imaging and Health Informatics, 2017, 7, 1841-1850. | 0.2 | 37 |
| 30 | Fog Computing Employed Computer Aided Cancer Classification System Using Deep Neural Network in Internet of Things Based Healthcare System. Journal of Medical Systems, 2020, 44, 34. | 2.2 | 32 |
| 31 | DECISION SUPPORT SYSTEM FOR ARRHYTHMIA BEATS USING ECG SIGNALS WITH DCT, DWT AND EMD METHODS: A COMPARATIVE STUDY. Journal of Mechanics in Medicine and Biology, 2016, 16, 1640012. | 0.3 | 26 |
| 32 | Application of higher order spectra for accurate delineation of atrial arrhythmia. , 2013, 2013, 57-60. | | 25 |
| 33 | Application of higher-order spectra for automated grading of diabetic maculopathy. Medical and Biological Engineering and Computing, 2015, 53, 1319-1331. | 1.6 | 24 |
| 34 | ARRHYTHMIA DISEASE DIAGNOSIS USING NEURAL NETWORK, SVM, AND GENETIC ALGORITHM-OPTIMIZED k-MEANS CLUSTERING. Journal of Mechanics in Medicine and Biology, 2011, 11, 897-915. | 0.3 | 21 |
| 35 | Discrete Cosine Transform Features in Automated Classification of Cardiac Arrhythmia Beats. , 2015, , 153-162. | | 20 |
| 36 | An Integrated ECG Feature Extraction Scheme Using PCA and Wavelet Transform. , 2009, , . | | 19 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Wavelet-based Machine Learning Techniques for ECG Signal Analysis. Intelligent Systems Reference Library, 2014, , 25-45. | 1.0 | 18 |
| 38 | Cardiac Arrhythmia Classification Using Electrocardiogram. Journal of Medical Imaging and Health Informatics, 2013, 3, 448-454. | 0.2 | 14 |
| 39 | Empirical mode decomposition analysis of near-infrared spectroscopy muscular signals to assess the effect of physical activity in type 2 diabetic patients. Computers in Biology and Medicine, 2015, 59, 1-9. | 3.9 | 13 |
| 40 | Entropy analysis of muscular near-infrared spectroscopy (NIRS) signals during exercise programme of type 2 diabetic patients: Quantitative assessment of muscle metabolic pattern. Computer Methods and Programs in Biomedicine, 2013, 112, 518-528. | 2.6 | 12 |
| 41 | AUTOMATED DETECTION OF ATRIAL FLUTTER AND FIBRILLATION USING ECG SIGNALS IN WAVELET FRAMEWORK. Journal of Mechanics in Medicine and Biology, 2012, 12, 1240023. | 0.3 | 9 |
| 42 | ECG SIGNAL GENERATION AND HEART RATE VARIABILITY SIGNAL EXTRACTION: SIGNAL PROCESSING, FEATURES DETECTION, AND THEIR CORRELATION WITH CARDIAC DISEASES. Journal of Mechanics in Medicine and Biology, 2012, 12, 1240012. | 0.3 | 9 |
| 43 | Editorial: Frontiers in development of intelligent applications for medical imaging processing and computer vision. Computers in Biology and Medicine, 2017, 89, 549-550. | 3.9 | 9 |
| 44 | Automated diagnosis of Coronary Artery Disease using pattern recognition approach. , 2017, 2017, 434-437. | | 9 |
| 45 | Automated Diagnosis of Tachycardia Beats. Smart Innovation, Systems and Technologies, 2018, , 421-429. | 0.5 | 7 |
| 46 | Automated Detection of Pulmonary Edema and Respiratory Failure Using Physiological Signals. Journal of Medical Imaging and Health Informatics, 2013, 3, 424-431. | 0.2 | 3 |
| 47 | Impact of Total Variation Regularization on Character Segmentation from Historical Stone Inscriptions. Pattern Recognition and Image Analysis, 2021, 31, 35-48. | 0.6 | 2 |
| 48 | The Application of Genetic Algorithm for Unsupervised Classification of ECG. Intelligent Systems Reference Library, 2014, , 65-80. | 1.0 | 2 |
| 49 | Application of Higher-Order Spectra Cumulants for Diabetic Retinopathy Detection Using Digital Fundus Images. , 2014, , 53-68. | | 2 |
| 50 | Machine Learning Based Decision Support System for Atrial Fibrillation Detection using Electrocardiogram. , 2020, , . | | 2 |
| 51 | Code excited linear prediction codec for electrocardiogram. , 2004, 2006, 160-3. | | 1 |
| 52 | Recent Advances in Brain Signal Analysis: Methods and Applications 2018. Computational Intelligence and Neuroscience, 2018, 2018, 1-2. | 1.1 | 1 |
| 53 | A Special Section on Early Cancer Detection and Machine Vision. Journal of Medical Imaging and Health Informatics, 2017, 7, 1823-1824. | 0.2 | 0 |
| 54 | Deep Learning Based Atrial Fibrillation Detection Using Effective Denoising Methods and Dimensionality Reduction Techniques. , 2021, , . | | 0 |

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|----|--|----|-----------|
| 55 | Automated Decision Support System for Focal Epilepsy Detection using Electroencephalogram. , 2021, , | | 0 |