

# Roshan Joy Martis

## List of Publications by Year in descending order

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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	Impact of Total Variation Regularization on Character Segmentation from Historical Stone Inscriptions. Pattern Recognition and Image Analysis, 2021, 31, 35-48.	0.6	2
2	Deep Learning Based Atrial Fibrillation Detection Using Effective Denoising Methods and Dimensionality Reduction Techniques. , 2021, , .		0
3	Automated Decision Support System for Focal Epilepsy Detection using Electroencephalogram. , 2021, , .		0
4	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
5	Machine Learning Based Decision Support System for Atrial Fibrillation Detection using Electrocardiogram. , 2020, , .		2
6	Automated Diagnosis of Tachycardia Beats. Smart Innovation, Systems and Technologies, 2018, , 421-429.	0.5	7
7	Recent Advances in Brain Signal Analysis: Methods and Applications 2018. Computational Intelligence and Neuroscience, 2018, 2018, 1-2.	1.1	1
8	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
9	Asymmetry analysis of breast thermograms using automated segmentation and texture features. Signal, Image and Video Processing, 2017, 11, 745-752.	1.7	63
10	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
11	Automated diagnosis of Coronary Artery Disease using pattern recognition approach. , 2017, 2017, 434-437.		9
12	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
13	A Special Section on Early Cancer Detection and Machine Vision. Journal of Medical Imaging and Health Informatics, 2017, 7, 1823-1824.	0.2	0
14	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
15	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
16	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
17	Machine intelligent diagnosis of ECG for arrhythmia classification using DWT, ICA and SVM techniques. , 2015, , .		45
18	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

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19	EPILEPTIC EEG CLASSIFICATION USING NONLINEAR PARAMETERS ON DIFFERENT FREQUENCY BANDS. Journal of Mechanics in Medicine and Biology, 2015, 15, 1550040.	0.3	45
20	Application of higher-order spectra for automated grading of diabetic maculopathy. Medical and Biological Engineering and Computing, 2015, 53, 1319-1331.	1.6	24
21	Discrete Cosine Transform Features in Automated Classification of Cardiac Arrhythmia Beats. , 2015, , 153-162.		20
22	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
23	Current methods in electrocardiogram characterization. Computers in Biology and Medicine, 2014, 48, 133-149.	3.9	198
24	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
25	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
26	Automated classification of glaucoma stages using higher order cumulant features. Biomedical Signal Processing and Control, 2014, 10, 174-183.	3.5	122
27	Wavelet-based Machine Learning Techniques for ECG Signal Analysis. Intelligent Systems Reference Library, 2014, , 25-45.	1.0	18
28	The Application of Genetic Algorithm for Unsupervised Classification of ECG. Intelligent Systems Reference Library, 2014, , 65-80.	1.0	2
29	Application of Higher-Order Spectra Cumulants for Diabetic Retinopathy Detection Using Digital Fundus Images. , 2014, , 53-68.		2
30	AUTOMATED DIAGNOSIS OF EPILEPSY USING CWT, HOS AND TEXTURE PARAMETERS. International Journal of Neural Systems, 2013, 23, 1350009.	3.2	113
31	Characterization of ECG beats from cardiac arrhythmia using discrete cosine transform in PCA framework. Knowledge-Based Systems, 2013, 45, 76-82.	4.0	98
32	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
33	Application of higher order statistics for atrial arrhythmia classification. Biomedical Signal Processing and Control, 2013, 8, 888-900.	3.5	102
34	Cardiac decision making using higher order spectra. Biomedical Signal Processing and Control, 2013, 8, 193-203.	3.5	178
35	Application of higher order spectra for accurate delineation of atrial arrhythmia. , 2013, 2013, 57-60.		25
36	Automated detection of atrial fibrillation using Bayesian paradigm. Knowledge-Based Systems, 2013, 54, 269-275.	4.0	67

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37	ECG beat classification using PCA, LDA, ICA and Discrete Wavelet Transform. Biomedical Signal Processing and Control, 2013, 8, 437-448.	3.5	545
38	Automated EEG analysis of epilepsy: A review. Knowledge-Based Systems, 2013, 45, 147-165.	4.0	588
39	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
40	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
41	APPLICATION OF HIGHER ORDER CUMULANT FEATURES FOR CARDIAC HEALTH DIAGNOSIS USING ECG SIGNALS. International Journal of Neural Systems, 2013, 23, 1350014.	3.2	150
42	Cardiac Arrhythmia Classification Using Electrocardiogram. Journal of Medical Imaging and Health Informatics, 2013, 3, 448-454.	0.2	14
43	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
44	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
45	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
46	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
47	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
48	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
49	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
50	Automated Screening of Arrhythmia Using Wavelet Based Machine Learning Techniques. Journal of Medical Systems, 2012, 36, 677-688.	2.2	48
51	Application of higher order cumulants to ECG signals for the cardiac health diagnosis. , 2011, 2011, 1697-700.		37
52	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
53	A two-stage mechanism for registration and classification of ECG using Gaussian mixture model. Pattern Recognition, 2009, 42, 2979-2988.	5.1	89
54	An Integrated ECG Feature Extraction Scheme Using PCA and Wavelet Transform. , 2009, , .		19

#	ARTICLE	IF	CITATIONS
55	Code excited linear prediction codec for electrocardiogram. , 2004, 2006, 160-3.		1