

Rajesh K Tripathy

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

66

papers

1,175

citations

21

h-index

32

g-index

75

ext. papers

1,668

ext. citations

3.5

avg, IF

5.71

L-index

#	Paper	IF	Citations
66	Multiscale Energy and Eigenspace Approach to Detection and Localization of Myocardial Infarction. <i>IEEE Transactions on Biomedical Engineering</i> , 2015 , 62, 1827-37	5	170
65	Use of features from RR-time series and EEG signals for automated classification of sleep stages in deep neural network framework. <i>Biocybernetics and Biomedical Engineering</i> , 2018 , 38, 890-902	5.7	77
64	Detection of Shockable Ventricular Arrhythmia using Variational Mode Decomposition. <i>Journal of Medical Systems</i> , 2016 , 40, 79	5.1	60
63	A Novel Approach for Detection of Myocardial Infarction From ECG Signals of Multiple Electrodes. <i>IEEE Sensors Journal</i> , 2019 , 19, 4509-4517	4	56
62	Time-Frequency Domain Deep Convolutional Neural Network for the Classification of Focal and Non-Focal EEG Signals. <i>IEEE Sensors Journal</i> , 2020 , 20, 3078-3086	4	43
61	Localization of Myocardial Infarction From Multi-Lead ECG Signals Using Multiscale Analysis and Convolutional Neural Network. <i>IEEE Sensors Journal</i> , 2019 , 19, 11437-11448	4	36
60	EEG-Rhythm Specific TaylorBourier Filter Bank Implemented With O-Splines for the Detection of Epilepsy Using EEG Signals. <i>IEEE Sensors Journal</i> , 2020 , 20, 6542-6551	4	34
59	Automated detection of heart valve diseases using chirplet transform and multiclass composite classifier with PCG signals. <i>Computers in Biology and Medicine</i> , 2020 , 118, 103632	7	33
58	A Novel Multivariate-Multiscale Approach for Computing EEG Spectral and Temporal Complexity for Human Emotion Recognition. <i>IEEE Sensors Journal</i> , 2021 , 21, 3579-3591	4	32
57	Automated detection of congestive heart failure from electrocardiogram signal using Stockwell transform and hybrid classification scheme. <i>Computer Methods and Programs in Biomedicine</i> , 2019 , 173, 53-65	6.9	31
56	Application of intrinsic band function technique for automated detection of sleep apnea using HRV and EDR signals. <i>Biocybernetics and Biomedical Engineering</i> , 2018 , 38, 136-144	5.7	30
55	Identification of electromechanical oscillatory modes based on variational mode decomposition. <i>Electric Power Systems Research</i> , 2019 , 167, 71-85	3.5	30
54	Detection of Life Threatening Ventricular Arrhythmia Using Digital Taylor Fourier Transform. <i>Frontiers in Physiology</i> , 2018 , 9, 722	4.6	28
53	Detection of shockable ventricular cardiac arrhythmias from ECG signals using FFREWT filter-bank and deep convolutional neural network. <i>Computers in Biology and Medicine</i> , 2020 , 124, 103939	7	26
52	Automated detection of sleep apnea using sparse residual entropy features with various dictionaries extracted from heart rate and EDR signals. <i>Computers in Biology and Medicine</i> , 2019 , 108, 20-30	7	25
51	A new way of quantifying diagnostic information from multilead electrocardiogram for cardiac disease classification. <i>Healthcare Technology Letters</i> , 2014 , 1, 98-103	1.9	25
50	Detection of sleep apnea from heart beat interval and ECG derived respiration signals using sliding mode singular spectrum analysis 2020 , 104, 102796		24

49	Automated accurate emotion recognition system using rhythm-specific deep convolutional neural network technique with multi-channel EEG signals. <i>Computers in Biology and Medicine</i> , 2021 , 134, 104428	7	23
48	AUTOMATED DETECTION OF ATRIAL FIBRILLATION ECG SIGNALS USING TWO STAGE VMD AND ATRIAL FIBRILLATION DIAGNOSIS INDEX. <i>Journal of Mechanics in Medicine and Biology</i> , 2017 , 17, 1740044	9.7	22
47	Novel Approaches for the Removal of Motion Artifact From EEG Recordings. <i>IEEE Sensors Journal</i> , 2019 , 19, 10600-10608	4	21
46	Automated Detection of Heart Valve Disorders From the PCG Signal Using Time-Frequency Magnitude and Phase Features 2019 , 3, 1-4		21
45	Discrimination of Focal and Non-Focal Seizures From EEG Signals Using Sliding Mode Singular Spectrum Analysis. <i>IEEE Sensors Journal</i> , 2019 , 19, 12286-12296	4	20
44	Automated detection of heart ailments from 12-lead ECG using complex wavelet sub-band bi-spectrum features. <i>Healthcare Technology Letters</i> , 2017 , 4, 57-63	1.9	18
43	Artificial intelligence-based classification of breast cancer using cellular images. <i>RSC Advances</i> , 2014 , 4, 9349	3.7	18
42	Fault detection and classification in transmission lines based on a PSD index. <i>IET Generation, Transmission and Distribution</i> , 2018 , 12, 4070-4078	2.5	18
41	Detection of Atrial Fibrillation from Single Lead ECG Signal Using Multirate Cosine Filter Bank and Deep Neural Network. <i>Journal of Medical Systems</i> , 2020 , 44, 114	5.1	16
40	EEG-Based Detection of Focal Seizure Area Using FBSE-EWT Rhythm and SAE-SVM Network. <i>IEEE Sensors Journal</i> , 2020 , 20, 11421-11428	4	16
39	. <i>IEEE Sensors Journal</i> , 2020 , 20, 3687-3696	4	15
38	Automated sleep apnea detection from cardio-pulmonary signal using bivariate fast and adaptive EMD coupled with cross time-frequency analysis. <i>Computers in Biology and Medicine</i> , 2020 , 120, 103769	7	15
37	Wavelet Domain Optimized Savitzky-Golay Filter for the Removal of Motion Artifacts From EEG Recordings. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021 , 70, 1-11	5.2	15
36	Detection of myocardial infarction from vectorcardiogram using relevance vector machine. <i>Signal, Image and Video Processing</i> , 2017 , 11, 1139-1146	1.6	14
35	Analysis of physiological signals using state space correlation entropy. <i>Healthcare Technology Letters</i> , 2017 , 4, 30-33	1.9	14
34	Detection of Cardiac Abnormalities from Multilead ECG using Multiscale Phase Alternation Features. <i>Journal of Medical Systems</i> , 2016 , 40, 143	5.1	14
33	Development of Automated Sleep Stage Classification System Using Multivariate Projection-Based Fixed Boundary Empirical Wavelet Transform and Entropy Features Extracted from Multichannel EEG Signals. <i>Entropy</i> , 2020 , 22,	2.8	12
32	A Diagnostic System for Detection of Atrial and Ventricular Arrhythmia Episodes from Electrocardiogram. <i>Journal of Medical and Biological Engineering</i> , 2018 , 38, 304-315	2.2	12

31	Automated Classification of Mental Arithmetic Tasks Using Recurrent Neural Network and Entropy Features Obtained from Multi-Channel EEG Signals. <i>Electronics (Switzerland)</i> , 2021 , 10, 1079	2.6	10
30	Quantification of Diagnostic Information from Electrocardiogram Signal: A Review. <i>Lecture Notes in Electrical Engineering</i> , 2015 , 17-39	0.2	9
29	A two-stage deep CNN architecture for the classification of low-risk and high-risk hypertension classes using multi-lead ECG signals. <i>Informatics in Medicine Unlocked</i> , 2020 , 21, 100479	5.3	9
28	Multivariate Sliding-Mode Singular Spectrum Analysis for the Decomposition of Multisensor Time Series 2020 , 4, 1-4		8
27	AFCNNNet: Automated detection of AF using chirplet transform and deep convolutional bidirectional long short term memory network with ECG signals. <i>Computers in Biology and Medicine</i> , 2021 , 137, 104783	7	8
26	Measurement of Zone Temperature Profile of a Resistive Heating Furnace Through RVM Model. <i>IEEE Sensors Journal</i> , 2018 , 18, 4429-4435	4	7
25	Time-Frequency Domain Deep Learning Framework for the Automated Detection of Heart Valve Disorders using PCG Signals. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2022 , 1-1	5.2	7
24	Deep Layer Kernel Sparse Representation Network for the Detection of Heart Valve Ailments from the Time-Frequency Representation of PCG Recordings. <i>BioMed Research International</i> , 2020 , 2020, 8843963	3.9	6
23	EEGANet: Removal of Ocular Artifact from the EEG Signal Using Generative Adversarial Networks. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021 , PP,	7.2	5
22	A Combination of Variational Mode Decomposition and Histogram Equalization for Image Enhancement. <i>The National Academy of Sciences, India</i> , 2019 , 42, 333-336	0.6	5
21	Heart Sound Data Acquisition and Preprocessing Techniques. <i>Advances in Healthcare Information Systems and Administration Book Series</i> , 2020 , 244-264	0.3	4
20	Understanding perception of active noise control system through multichannel EEG analysis. <i>Healthcare Technology Letters</i> , 2018 , 5, 101-106	1.9	4
19	Detection of COVID19 from X-ray images using multiscale Deep Convolutional Neural Network.. <i>Applied Soft Computing Journal</i> , 2022 , 119, 108610	7.5	4
18	A Simulation Approach to Study the Effect of Ultrasonic MEMS Based Receiver for Blood Glucose Sensing Applications 2017 , 1, 1-4		3
17	Sliding Mode Singular Spectrum Analysis for the Elimination of Cross-Terms in WignerVille Distribution. <i>Circuits, Systems, and Signal Processing</i> , 2021 , 40, 1207-1232	2.2	3
16	A NEW METHOD FOR AUTOMATED DETECTION OF DIABETES FROM HEART RATE SIGNAL. <i>Journal of Mechanics in Medicine and Biology</i> , 2017 , 17, 1740001	0.7	2
15	Least Square Support Vector Machine Modelling of Breakdown Voltage of Solid Insulating Materials in the Presence of Voids. <i>Journal of the Institution of Engineers (India): Series B</i> , 2013 , 94, 21-27 ^{0.9}		2
14	Automated Recognition of Imagined Commands From EEG Signals Using Multivariate Fast and Adaptive Empirical Mode Decomposition Based Method 2022 , 6, 1-4		2

13	Multiresolution inter-sample and inter-lead eigen error features for classification of cardiac diseases 2016 ,		2
12	Multichannel Multiscale Two-Stage Convolutional Neural Network for the Detection and Localization of Myocardial Infarction Using Vectorcardiogram Signal. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 7920	2.6	2
11	Detection of cardiac ailments from multilead ECG using diagnostic eigen error features 2015 ,		1
10	Relevance Vector Machine Based Analyses of MRR and SR of Electrodischarge Machining Designed by Response Surface Methodology. <i>International Journal of Manufacturing Engineering</i> , 2013 , 2013, 1-9		1
9	Radio Frequency Spectrum Sensing by Automatic Modulation Classification in Cognitive Radio System Using Multiscale Deep CNN. <i>IEEE Sensors Journal</i> , 2022 , 22, 926-938	4	1
8	Evaluation of Performance Metrics and Denoising of PCG Signal using Wavelet Based Decomposition 2020 ,		1
7	Implementation of fast ICA using memristor crossbar arrays for blind image source separations. <i>IET Circuits, Devices and Systems</i> , 2020 , 14, 484-489	1.1	1
6	Diagnostic measure to quantify loss of clinical components in multi-lead electrocardiogram. <i>Healthcare Technology Letters</i> , 2016 , 3, 61-6	1.9	1
5	Automated Detection of Pulmonary Diseases from Lung Sound Signals using Fixed Boundary based Empirical Wavelet Transform 2022 , 1-1		1
4	A Transform Domain Approach for the Compression of Fetal Phonocardiogram Signal 2021 , 5, 1-4		0
3	Quantifying Clinical Information in MEEG Using Sample and Channel Convolution Matrices. <i>Lecture Notes in Electrical Engineering</i> , 2015 , 73-80	0.2	
2	A Study on Time-Frequency Analysis of Phonocardiogram Signals 2021 , 189-202		
1	Model-based approach to validate the aluminium nitride material based ultrasonic MEMS transceiver for temperature sensing. <i>Micro and Nano Letters</i> , 2019 , 14, 280-285	0.9	