

Rajesh K Tripathy

List of Publications by Year in descending order

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74
papers

2,174
citations

218677

26
h-index

254184

43
g-index

75
all docs

75
docs citations

75
times ranked

1623
citing authors

#	ARTICLE	IF	CITATIONS
1	Multiscale Energy and Eigenspace Approach to Detection and Localization of Myocardial Infarction. IEEE Transactions on Biomedical Engineering, 2015, 62, 1827-1837.	4.2	236
2	Use of features from RR-time series and EEG signals for automated classification of sleep stages in deep neural network framework. Biocybernetics and Biomedical Engineering, 2018, 38, 890-902.	5.9	118
3	A Novel Approach for Detection of Myocardial Infarction From ECG Signals of Multiple Electrodes. IEEE Sensors Journal, 2019, 19, 4509-4517.	4.7	86
4	Detection of Shockable Ventricular Arrhythmia using Variational Mode Decomposition. Journal of Medical Systems, 2016, 40, 79.	3.6	85
5	Automated detection of heart valve diseases using chirplet transform and multiclass composite classifier with PCG signals. Computers in Biology and Medicine, 2020, 118, 103632.	7.0	83
6	Time-Frequency Domain Deep Convolutional Neural Network for the Classification of Focal and Non-Focal EEG Signals. IEEE Sensors Journal, 2020, 20, 3078-3086.	4.7	75
7	Automated accurate emotion recognition system using rhythm-specific deep convolutional neural network technique with multi-channel EEG signals. Computers in Biology and Medicine, 2021, 134, 104428.	7.0	72
8	A Novel Multivariate-Multiscale Approach for Computing EEG Spectral and Temporal Complexity for Human Emotion Recognition. IEEE Sensors Journal, 2021, 21, 3579-3591.	4.7	69
9	EEG-Rhythm Specific Taylorâ€™Fourier Filter Bank Implemented With O-Splines for the Detection of Epilepsy Using EEG Signals. IEEE Sensors Journal, 2020, 20, 6542-6551.	4.7	60
10	Detection of shockable ventricular cardiac arrhythmias from ECG signals using FFREWT filter-bank and deep convolutional neural network. Computers in Biology and Medicine, 2020, 124, 103939.	7.0	57
11	Automated Detection of Heart Valve Disorders From the PCG Signal Using Time-Frequency Magnitude and Phase Features. , 2019, 3, 1-4.		56
12	Localization of Myocardial Infarction From Multi-Lead ECG Signals Using Multiscale Analysis and Convolutional Neural Network. IEEE Sensors Journal, 2019, 19, 11437-11448.	4.7	55
13	Identification of electromechanical oscillatory modes based on variational mode decomposition. Electric Power Systems Research, 2019, 167, 71-85.	3.6	50
14	Automated detection of congestive heart failure from electrocardiogram signal using Stockwell transform and hybrid classification scheme. Computer Methods and Programs in Biomedicine, 2019, 173, 53-65.	4.7	49
15	Automated detection of sleep apnea using sparse residual entropy features with various dictionaries extracted from heart rate and EDR signals. Computers in Biology and Medicine, 2019, 108, 20-30.	7.0	47
16	Application of intrinsic band function technique for automated detection of sleep apnea using HRV and EDR signals. Biocybernetics and Biomedical Engineering, 2018, 38, 136-144.	5.9	46
17	Detection of sleep apnea from heart beat interval and ECG derived respiration signals using sliding mode singular spectrum analysis. , 2020, 104, 102796.		44
18	Detection of Life Threatening Ventricular Arrhythmia Using Digital Taylor Fourier Transform. Frontiers in Physiology, 2018, 9, 722.	2.8	42

#	ARTICLE	IF	CITATIONS
19	Novel Approaches for the Removal of Motion Artifact From EEG Recordings. IEEE Sensors Journal, 2019, 19, 10600-10608.	4.7	40
20	AFCNNet: Automated detection of AF using chirplet transform and deep convolutional bidirectional long short term memory network with ECG signals. Computers in Biology and Medicine, 2021, 137, 104783.	7.0	40
21	Detection of Atrial Fibrillation from Single Lead ECG Signal Using Multirate Cosine Filter Bank and Deep Neural Network. Journal of Medical Systems, 2020, 44, 114.	3.6	36
22	Elimination of Ocular Artifacts From Single Channel EEG Signals Using FBSE-EWT Based Rhythms. IEEE Sensors Journal, 2020, 20, 3687-3696.	4.7	32
23	Development of Automated Sleep Stage Classification System Using Multivariate Projection-Based Fixed Boundary Empirical Wavelet Transform and Entropy Features Extracted from Multichannel EEG Signals. Entropy, 2020, 22, 1141.	2.2	31
24	Wavelet Domain Optimized Savitzky-Golay Filter for the Removal of Motion Artifacts From EEG Recordings. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	4.7	31
25	Time-Frequency-Domain Deep Learning Framework for the Automated Detection of Heart Valve Disorders Using PCG Signals. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-11.	4.7	30
26	A new way of quantifying diagnostic information from multilead electrocardiogram for cardiac disease classification. Healthcare Technology Letters, 2014, 1, 98-103.	3.3	29
27	Discrimination of Focal and Non-Focal Seizures From EEG Signals Using Sliding Mode Singular Spectrum Analysis. IEEE Sensors Journal, 2019, 19, 12286-12296.	4.7	29
28	Artificial intelligence-based classification of breast cancer using cellular images. RSC Advances, 2014, 4, 9349.	3.6	28
29	EEG-Based Detection of Focal Seizure Area Using FBSE-EWT Rhythm and SAE-SVM Network. IEEE Sensors Journal, 2020, 20, 11421-11428.	4.7	28
30	Fault detection and classification in transmission lines based on a PSD index. IET Generation, Transmission and Distribution, 2018, 12, 4070-4078.	2.5	27
31	Automated sleep apnea detection from cardio-pulmonary signal using bivariate fast and adaptive EMD coupled with cross time-frequency analysis. Computers in Biology and Medicine, 2020, 120, 103769.	7.0	27
32	Automated Classification of Mental Arithmetic Tasks Using Recurrent Neural Network and Entropy Features Obtained from Multi-Channel EEG Signals. Electronics (Switzerland), 2021, 10, 1079.	3.1	27
33	EEGANet: Removal of Ocular Artifacts From the EEG Signal Using Generative Adversarial Networks. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 4913-4924.	6.3	27
34	Detection of Cardiac Abnormalities from Multilead ECG using Multiscale Phase Alternation Features. Journal of Medical Systems, 2016, 40, 143.	3.6	26
35	AUTOMATED DETECTION OF ATRIAL FIBRILLATION ECG SIGNALS USING TWO STAGE VMD AND ATRIAL FIBRILLATION DIAGNOSIS INDEX. Journal of Mechanics in Medicine and Biology, 2017, 17, 1740044.	0.7	25
36	Analysis of physiological signals using state space correlation entropy. Healthcare Technology Letters, 2017, 4, 30-33.	3.3	24

#	ARTICLE	IF	CITATIONS
37	A two-stage deep CNN architecture for the classification of low-risk and high-risk hypertension classes using multi-lead ECG signals. Informatics in Medicine Unlocked, 2020, 21, 100479.	3.4	24
38	Detection of COVID19 from X-ray images using multiscale Deep Convolutional Neural Network. Applied Soft Computing Journal, 2022, 119, 108610.	7.2	22
39	Detection of myocardial infarction from vectorcardiogram using relevance vector machine. Signal, Image and Video Processing, 2017, 11, 1139-1146.	2.7	21
40	Automated detection of heart ailments from 12-lead ECG using complex wavelet sub-band bispectrum features. Healthcare Technology Letters, 2017, 4, 57-63.	3.3	21
41	Automated Detection of Pulmonary Diseases From Lung Sound Signals Using Fixed-Boundary-Based Empirical Wavelet Transform. , 2022, 6, 1-4.		17
42	A Diagnostic System for Detection of Atrial and Ventricular Arrhythmia Episodes from Electrocardiogram. Journal of Medical and Biological Engineering, 2018, 38, 304-315.	1.8	16
43	Multivariate Sliding-Mode Singular Spectrum Analysis for the Decomposition of Multisensor Time Series. , 2020, 4, 1-4.		15
44	Evaluation of Performance Metrics and Denoising of PCG Signal using Wavelet Based Decomposition. , 2020, , .		14
45	Multichannel Multiscale Two-Stage Convolutional Neural Network for the Detection and Localization of Myocardial Infarction Using Vectorcardiogram Signal. Applied Sciences (Switzerland), 2021, 11, 7920.	2.5	13
46	Deep Layer Kernel Sparse Representation Network for the Detection of Heart Valve Ailments from the Time-Frequency Representation of PCG Recordings. BioMed Research International, 2020, 2020, 1-16.	1.9	12
47	Radio Frequency Spectrum Sensing by Automatic Modulation Classification in Cognitive Radio System Using Multiscale Deep CNN. IEEE Sensors Journal, 2022, 22, 926-938.	4.7	12
48	Quantification of Diagnostic Information from Electrocardiogram Signal: A Review. Lecture Notes in Electrical Engineering, 2015, , 17-39.	0.4	11
49	ECG beat classification based on discriminative multilevel feature analysis and deep learning approach. Biomedical Signal Processing and Control, 2022, 78, 103943.	5.7	11
50	Automated Recognition of Imagined Commands From EEG Signals Using Multivariate Fast and Adaptive Empirical Mode Decomposition Based Method. , 2022, 6, 1-4.		10
51	Measurement of Zone Temperature Profile of a Resistive Heating Furnace Through RVM Model. IEEE Sensors Journal, 2018, 18, 4429-4435.	4.7	9
52	Heart Sound Data Acquisition and Preprocessing Techniques. Advances in Healthcare Information Systems and Administration Book Series, 2020, , 244-264.	0.2	9
53	A Combination of Variational Mode Decomposition and Histogram Equalization for Image Enhancement. The National Academy of Sciences, India, 2019, 42, 333-336.	1.3	8
54	Sliding Mode Singular Spectrum Analysis for the Elimination of Cross-Terms in Wigner-Ville Distribution. Circuits, Systems, and Signal Processing, 2021, 40, 1207-1232.	2.0	8

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55	Implementation of fast ICA using memristor crossbar arrays for blind image source separations. IET Circuits, Devices and Systems, 2020, 14, 484-489.	1.4	7
56	A Transform Domain Approach for the Compression of Fetal Phonocardiogram Signal. , 2021, 5, 1-4.		7
57	Least Square Support Vector Machine Modelling of Breakdown Voltage of Solid Insulating Materials in the Presence of Voids. Journal of the Institution of Engineers (India): Series B, 2013, 94, 21-27.	1.9	6
58	A Simulation Approach to Study the Effect of Ultrasonic MEMS Based Receiver for Blood Glucose Sensing Applications. , 2017, 1, 1-4.		4
59	Phasor, frequency and ROCOF measurements in microgrids: A practical approach. , 2017, , .		4
60	Understanding perception of active noise control system through multichannel EEG analysis. Healthcare Technology Letters, 2018, 5, 101-106.	3.3	4
61	Prediction of cutting and feed forces for conventional milling process using adaptive neuro fuzzy inference system (ANFIS). IAES International Journal of Artificial Intelligence, 2013, 3, 24.	0.8	4
62	Artificial Neural Network based Body Posture Classification from EMG signal analysis. Indonesian Journal of Electrical Engineering and Informatics, 2013, 1, .	0.3	3
63	Classification of PCG Signals using Fourier-based Synchrosqueezing Transform and Support Vector Machine. , 2021, , .		3
64	Relevance Vector Machine Based Analyses of MRR and SR of Electrodischarge Machining Designed by Response Surface Methodology. International Journal of Manufacturing Engineering, 2013, 2013, 1-9.	0.8	2
65	Detection of cardiac ailments from multilead ECG using diagnostic eigen error features. , 2015, , .		2
66	Multiresolution inter-sample and inter-lead eigen error features for classification of cardiac diseases. , 2016, , .		2
67	A NEW METHOD FOR AUTOMATED DETECTION OF DIABETES FROM HEART RATE SIGNAL. Journal of Mechanics in Medicine and Biology, 2017, 17, 1740001.	0.7	2
68	Cardiac arrhythmia classification from multilead ECG using multiscale non-linear analysis. , 2015, , .		1
69	Diagnostic measure to quantify loss of clinical components in multi-lead electrocardiogram. Healthcare Technology Letters, 2016, 3, 61-66.	3.3	1
70	Data-Driven Modal Features Extraction Through the Variational Mode Decomposition Method. , 2019, , .		1
71	Editorial: Machine Learning and Deep Learning for Physiological Signal Analysis. Frontiers in Physiology, 2022, 13, 887070.	2.8	1
72	Model-based approach to validate the aluminium nitride material based ultrasonic MEMS transceiver for temperature sensing. Micro and Nano Letters, 2019, 14, 280-285.	1.3	0

#	ARTICLE	IF	CITATIONS
73	A Study on Time-Frequency Analysis of Phonocardiogram Signals. , 2021, , 189-202.		0
74	Machine Learning-based Approach for the Prediction of an Orifice size of Aerospace Vehicle RCS Thrusters during Cold Flow Calibration. , 2021, , .		0