

Rajesh K Tripathy

List of Publications by Year in descending order

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Version: 2024-02-01

74
papers

2,174
citations

218677

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h-index

254184

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all docs

75
docs citations

75
times ranked

1623
citing authors

#	ARTICLE	IF	CITATIONS
1	EEGNet: 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
2	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
3	Automated Recognition of Imagined Commands From EEG Signals Using Multivariate Fast and Adaptive Empirical Mode Decomposition Based Method. , 2022, 6, 1-4.		10
4	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
5	Detection of COVID19 from X-ray images using multiscale Deep Convolutional Neural Network. Applied Soft Computing Journal, 2022, 119, 108610.	7.2	22
6	Automated Detection of Pulmonary Diseases From Lung Sound Signals Using Fixed-Boundary-Based Empirical Wavelet Transform. , 2022, 6, 1-4.		17
7	Editorial: Machine Learning and Deep Learning for Physiological Signal Analysis. Frontiers in Physiology, 2022, 13, 887070.	2.8	1
8	ECG beat classification based on discriminative multilevel feature analysis and deep learning approach. Biomedical Signal Processing and Control, 2022, 78, 103943.	5.7	11
9	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
10	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
11	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
12	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
13	A Study on Time-Frequency Analysis of Phonocardiogram Signals. , 2021, , 189-202.		0
14	A Transform Domain Approach for the Compression of Fetal Phonocardiogram Signal. , 2021, 5, 1-4.		7
15	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
16	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
17	AFCNNNet: 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
18	Classification of PCG Signals using Fourier-based Synchrosqueezing Transform and Support Vector Machine. , 2021, , .		3

#	ARTICLE	IF	CITATIONS
19	Machine Learning-based Approach for the Prediction of an Orifice size of Aerospace Vehicle RCS Thrusters during Cold Flow Calibration. , 2021, , .		0
20	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
21	Elimination of Ocular Artifacts From Single Channel EEG Signals Using FBSE-EWT Based Rhythms. IEEE Sensors Journal, 2020, 20, 3687-3696.	4.7	32
22	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
23	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
24	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
25	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
26	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
27	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
28	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
29	Detection of sleep apnea from heart beat interval and ECG derived respiration signals using sliding mode singular spectrum analysis. , 2020, 104, 102796.		44
30	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
31	Automated sleep apnea detection from cardio-pulmonary signal using bivariate fast and adaptive EMD coupled with cross timeâ€“frequency analysis. Computers in Biology and Medicine, 2020, 120, 103769.	7.0	27
32	Multivariate Sliding-Mode Singular Spectrum Analysis for the Decomposition of Multisensor Time Series. , 2020, 4, 1-4.		15
33	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
34	Evaluation of Performance Metrics and Denoising of PCG Signal using Wavelet Based Decomposition. , 2020, , .		14
35	Heart Sound Data Acquisition and Preprocessing Techniques. Advances in Healthcare Information Systems and Administration Book Series, 2020, , 244-264.	0.2	9
36	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

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37	Novel Approaches for the Removal of Motion Artifact From EEG Recordings. IEEE Sensors Journal, 2019, 19, 10600-10608.	4.7	40
38	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
39	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
40	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
41	A Novel Approach for Detection of Myocardial Infarction From ECG Signals of Multiple Electrodes. IEEE Sensors Journal, 2019, 19, 4509-4517.	4.7	86
42	Automated Detection of Heart Valve Disorders From the PCG Signal Using Time-Frequency Magnitude and Phase Features. , 2019, 3, 1-4.		56
43	Data-Driven Modal Features Extraction Through the Variational Mode Decomposition Method. , 2019, , .		1
44	Identification of electromechanical oscillatory modes based on variational mode decomposition. Electric Power Systems Research, 2019, 167, 71-85.	3.6	50
45	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
46	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
47	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
48	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
49	Fault detection and classification in transmission lines based on a PSD index. IET Generation, Transmission and Distribution, 2018, 12, 4070-4078.	2.5	27
50	Measurement of Zone Temperature Profile of a Resistive Heating Furnace Through RVM Model. IEEE Sensors Journal, 2018, 18, 4429-4435.	4.7	9
51	Detection of Life Threatening Ventricular Arrhythmia Using Digital Taylor Fourier Transform. Frontiers in Physiology, 2018, 9, 722.	2.8	42
52	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
53	Understanding perception of active noise control system through multichannel EEG analysis. Healthcare Technology Letters, 2018, 5, 101-106.	3.3	4
54	Detection of myocardial infarction from vectorcardiogram using relevance vector machine. Signal, Image and Video Processing, 2017, 11, 1139-1146.	2.7	21

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55	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
56	Analysis of physiological signals using state space correlation entropy. Healthcare Technology Letters, 2017, 4, 30-33.	3.3	24
57	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
58	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
59	A Simulation Approach to Study the Effect of Ultrasonic MEMS Based Receiver for Blood Glucose Sensing Applications. , 2017, 1, 1-4.		4
60	Phasor, frequency and ROCOF measurements in microgrids: A practical approach. , 2017, , .		4
61	Multiresolution inter-sample and inter-lead eigen error features for classification of cardiac diseases. , 2016, , .		2
62	Detection of Cardiac Abnormalities from Multilead ECG using Multiscale Phase Alternation Features. Journal of Medical Systems, 2016, 40, 143.	3.6	26
63	Diagnostic measure to quantify loss of clinical components in multi-lead electrocardiogram. Healthcare Technology Letters, 2016, 3, 61-66.	3.3	1
64	Detection of Shockable Ventricular Arrhythmia using Variational Mode Decomposition. Journal of Medical Systems, 2016, 40, 79.	3.6	85
65	Cardiac arrhythmia classification from multilead ECG using multiscale non-linear analysis. , 2015, , .		1
66	Detection of cardiac ailments from multilead ECG using diagnostic eigen error features. , 2015, , .		2
67	Multiscale Energy and Eigenspace Approach to Detection and Localization of Myocardial Infarction. IEEE Transactions on Biomedical Engineering, 2015, 62, 1827-1837.	4.2	236
68	Quantification of Diagnostic Information from Electrocardiogram Signal: A Review. Lecture Notes in Electrical Engineering, 2015, , 17-39.	0.4	11
69	Artificial intelligence-based classification of breast cancer using cellular images. RSC Advances, 2014, 4, 9349.	3.6	28
70	A new way of quantifying diagnostic information from multilead electrocardiogram for cardiac disease classification. Healthcare Technology Letters, 2014, 1, 98-103.	3.3	29
71	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
72	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

#	ARTICLE	IF	CITATIONS
73	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
74	Artificial Neural Network based Body Posture Classification from EMG signal analysis. Indonesian Journal of Electrical Engineering and Informatics, 2013, 1, .	0.3	3