Ram Bilas Pachori

List of Publications by Year
in descending order

214 papers	11,697 citations	29994 54 h-index	37111 96 g-index
216 all docs	216 docs citations	216 times ranked	5571 citing authors

#	Article	IF	Citations
1	Classification of Seizure and Nonseizure EEG Signals Using Empirical Mode Decomposition. IEEE Transactions on Information Technology in Biomedicine, 2012, 16, 1135-1142.	3.6	407
2	Classification of epileptic seizures in EEG signals based on phase space representation of intrinsic mode functions. Expert Systems With Applications, 2015, 42, 1106-1117.	4.4	341
3	A new approach to characterize epileptic seizures using analytic time-frequency flexible wavelet transform and fractal dimension. Pattern Recognition Letters, 2017, 94, 172-179.	2.6	330
4	A Multivariate Approach for Patient-Specific EEG Seizure Detection Using Empirical Wavelet Transform. IEEE Transactions on Biomedical Engineering, 2017, 64, 2003-2015.	2.5	320
5	Application of deep learning techniques for detection of COVID-19 cases using chest X-ray images: A comprehensive study. Biomedical Signal Processing and Control, 2021, 64, 102365.	3.5	282
6	Application of Entropy Measures on Intrinsic Mode Functions for the Automated Identification of Focal Electroencephalogram Signals. Entropy, 2015, 17, 669-691.	1.1	271
7	Epileptic seizure classification in EEG signals using second-order difference plot of intrinsic mode functions. Computer Methods and Programs in Biomedicine, 2014, 113, 494-502.	2.6	231
8	Classification of ictal and seizure-free EEG signals using fractional linear prediction. Biomedical Signal Processing and Control, 2014, 9, 1-5.	3.5	231
9	Tunable-Q Wavelet Transform Based Multiscale Entropy Measure for Automated Classification of Epileptic EEG Signals. Applied Sciences (Switzerland), 2017, 7, 385.	1.3	213
10	Analysis of normal and epileptic seizure EEG signals using empirical mode decomposition. Computer Methods and Programs in Biomedicine, 2011, 104, 373-381.	2.6	201
11	Automatic classification of sleep stages based on the time-frequency image of EEG signals. Computer Methods and Programs in Biomedicine, 2013, 112, 320-328.	2.6	194
12	Automated Diagnosis of Glaucoma Using Empirical Wavelet Transform and Correntropy Features Extracted From Fundus Images. IEEE Journal of Biomedical and Health Informatics, 2017, 21, 803-813.	3.9	194
13	A multi-class EEG-based BCI classification using multivariate empirical mode decomposition based filtering and Riemannian geometry. Expert Systems With Applications, 2018, 95, 201-211.	4.4	194
14	Cross-Subject Emotion Recognition Using Flexible Analytic Wavelet Transform From EEG Signals. IEEE Sensors Journal, 2019, 19, 2266-2274.	2.4	194
15	Automated Diagnosis of Epilepsy Using Key-Point-Based Local Binary Pattern of EEG Signals. IEEE Journal of Biomedical and Health Informatics, 2017, 21, 888-896.	3.9	181
16	Discrimination between Ictal and Seizure-Free EEG Signals Using Empirical Mode Decomposition. Research Letters in Signal Processing, 2008, 2008, 1-5.	0.7	171
17	An Integrated Index for the Identification of Focal Electroencephalogram Signals Using Discrete Wavelet Transform and Entropy Measures. Entropy, 2015, 17, 5218-5240.	1.1	162
18	Automated diagnosis of coronary artery disease using tunable-Q wavelet transform applied on heart rate signals. Knowledge-Based Systems, 2015, 82, 1-10.	4.0	152

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19	A novel approach for automated detection of focal EEG signals using empirical wavelet transform. Neural Computing and Applications, 2018, 29, 47-57.	3.2	152
20	Classification of seizure and seizure-free EEG signals using local binary patterns. Biomedical Signal Processing and Control, 2015, 15, 33-40.	3.5	147
21	An automatic detection of focal EEG signals using new class of time–frequency localized orthogonal wavelet filter banks. Knowledge-Based Systems, 2017, 118, 217-227.	4.0	147
22	Automatic sleep stages classification based on iterative filtering of electroencephalogram signals. Neural Computing and Applications, 2017, 28, 2959-2978.	3.2	140
23	Fourier–Bessel series expansion based empirical wavelet transform for analysis of non-stationary signals. , 2018, 78, 185-196.		128
24	Automated emotion recognition based on higher order statistics and deep learning algorithm. Biomedical Signal Processing and Control, 2020, 58, 101867.	3.5	119
25	Epileptic seizure detection based on the instantaneous area of analytic intrinsic mode functions of EEG signals. Biomedical Engineering Letters, 2013, 3, 17-21.	2.1	115
26	Time–frequency localized three-band biorthogonal wavelet filter bank using semidefinite relaxation and nonlinear least squares with epileptic seizure EEG signal classification. , 2017, 62, 259-273.		115
27	A Sliding Window Common Spatial Pattern for Enhancing Motor Imagery Classification in EEG-BCI. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-9.	2.4	115
28	Characterization of coronary artery disease using flexible analytic wavelet transform applied on ECG signals. Biomedical Signal Processing and Control, 2017, 31, 301-308.	3.5	114
29	Epileptic seizure identification using entropy of FBSE based EEG rhythms. Biomedical Signal Processing and Control, 2019, 53, 101569.	3.5	113
30	EEG signal analysis using FB expansion and second-order linear TVAR process. Signal Processing, 2008, 88, 415-420.	2.1	111
31	Automated Diagnosis of Myocardial Infarction ECG Signals Using Sample Entropy in Flexible Analytic Wavelet Transform Framework. Entropy, 2017, 19, 488.	1.1	110
32	A deep learning based approach for automatic detection of COVID-19 cases using chest X-ray images. Biomedical Signal Processing and Control, 2022, 71, 103182.	3.5	109
33	Automated detection of focal EEG signals using features extracted from flexible analytic wavelet transform. Pattern Recognition Letters, 2017, 94, 180-188.	2.6	108
34	Iterative variational mode decomposition based automated detection of glaucoma using fundus images. Computers in Biology and Medicine, 2017, 88, 142-149.	3.9	106
35	Instantaneous voiced/non-voiced detection in speech signals based on variational mode decomposition. Journal of the Franklin Institute, 2015, 352, 2679-2707.	1.9	104
36	Time–frequency representation using IEVDHM–HT with application to classification of epileptic EEG signals. IET Science, Measurement and Technology, 2018, 12, 72-82.	0.9	104

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37	Cross-terms reduction in the Wigner–Ville distribution using tunable-Q wavelet transform. Signal Processing, 2016, 120, 288-304.	2.1	103
38	A new technique to reduce cross terms in the Wigner distribution. , 2007, 17, 466-474.		100
39	Classification of cardiac sound signals using constrained tunable-Q wavelet transform. Expert Systems With Applications, 2014, 41, 7161-7170.	4.4	97
40	An integrated alcoholic index using tunable-Q wavelet transform based features extracted from EEG signals for diagnosis of alcoholism. Applied Soft Computing Journal, 2017, 50, 71-78.	4.1	97
41	An efficient removal of power-line interference and baseline wander from ECG signals by employing Fourier decomposition technique. Biomedical Signal Processing and Control, 2020, 57, 101741.	3.5	95
42	An efficient automated technique for CAD diagnosis using flexible analytic wavelet transform and entropy features extracted from HRV signals. Expert Systems With Applications, 2016, 63, 165-172.	4.4	93
43	A NOVEL APPROACH TO DETECT EPILEPTIC SEIZURES USING A COMBINATION OF TUNABLE-Q WAVELET TRANSFORM AND FRACTAL DIMENSION. Journal of Mechanics in Medicine and Biology, 2017, 17, 1740003.	0.3	91
44	Tunable-Q Wavelet Transform Based Multivariate Sub-Band Fuzzy Entropy with Application to Focal EEG Signal Analysis. Entropy, 2017, 19, 99.	1.1	87
45	A Novel Approach for Detection of Myocardial Infarction From ECG Signals of Multiple Electrodes. IEEE Sensors Journal, 2019, 19, 4509-4517.	2.4	86
46	Automated diagnosis of atrial fibrillation ECG signals using entropy features extracted from flexible analytic wavelet transform. Biocybernetics and Biomedical Engineering, 2018, 38, 564-573.	3.3	80
47	Baseline wander and power line interference removal from ECG signals using eigenvalue decomposition. Biomedical Signal Processing and Control, 2018, 45, 33-49.	3.5	79
48	Application of empirical mode decomposition for analysis of normal and diabetic RR-interval signals. Expert Systems With Applications, 2015, 42, 4567-4581.	4.4	77
49	Automatic diagnosis of septal defects based on tunable-Q wavelet transform of cardiac sound signals. Expert Systems With Applications, 2015, 42, 3315-3326.	4.4	76
50	Time-Frequency Domain Deep Convolutional Neural Network for the Classification of Focal and Non-Focal EEG Signals. IEEE Sensors Journal, 2020, 20, 3078-3086.	2.4	75
51	Raman optical fiber distributed temperature sensor using wavelet transform based simplified signal processing of Raman backscattered signals. Optics and Laser Technology, 2015, 65, 14-24.	2.2	74
52	Decision support system for focal EEG signals using tunable-Q wavelet transform. Journal of Computational Science, 2017, 20, 52-60.	1.5	73
53	Automated System for Epileptic EEG Detection Using Iterative Filtering. , 2018, 2, 1-4.		73
54	An Automatic Subject Specific Intrinsic Mode Function Selection for Enhancing Two-Class EEG-Based Motor Imagery-Brain Computer Interface. IEEE Sensors Journal, 2019, 19, 6938-6947.	2.4	70

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55	Detection of apnea events from ECG segments using Fourier decomposition method. Biomedical Signal Processing and Control, 2020, 61, 102005.	3.5	69
56	A Novel Multivariate-Multiscale Approach for Computing EEG Spectral and Temporal Complexity for Human Emotion Recognition. IEEE Sensors Journal, 2021, 21, 3579-3591.	2.4	69
57	Analysis of multicomponent AM-FM signals using FB-DESA method. , 2010, 20, 42-62.		67
58	Dual-Tree Complex Wavelet Transform-Based Features for Automated Alcoholism Identification. International Journal of Fuzzy Systems, 2018, 20, 1297-1308.	2.3	63
59	Seizures classification based on higher order statistics and deep neural network. Biomedical Signal Processing and Control, 2020, 59, 101921.	3.5	62
60	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.	2.4	60
61	Schizophrenia detection technique using multivariate iterative filtering and multichannel EEG signals. Biomedical Signal Processing and Control, 2021, 67, 102525.	3.5	60
62	Tangent Space Features-Based Transfer Learning Classification Model for Two-Class Motor Imagery Brainâ€"Computer Interface. International Journal of Neural Systems, 2019, 29, 1950025.	3.2	59
63	Automatic diagnosis of glaucoma using two-dimensional Fourier-Bessel series expansion based empirical wavelet transform. Biomedical Signal Processing and Control, 2021, 64, 102237.	3.5	57
64	Automated Detection of Heart Valve Disorders From the PCG Signal Using Time-Frequency Magnitude and Phase Features. , 2019, 3, 1-4.		56
65	Empirical Mode Decomposition Based Classification of Focal and Non-focal EEG Signals. , 2014, , .		55
66	Localization of Myocardial Infarction From Multi-Lead ECG Signals Using Multiscale Analysis and Convolutional Neural Network. IEEE Sensors Journal, 2019, 19, 11437-11448.	2.4	55
67	FBSED based automatic diagnosis of COVID-19 using X-ray and CT images. Computers in Biology and Medicine, 2021, 134, 104454.	3.9	55
68	An empirical mode decomposition based filtering method for classification of motor-imagery EEG signals for enhancing brain-computer interface. , 2015, , .		54
69	CLASSIFICATION OF FOCAL AND NONFOCAL EEG SIGNALS USING FEATURES DERIVED FROM FOURIER-BASED RHYTHMS. Journal of Mechanics in Medicine and Biology, 2017, 17, 1740002.	0.3	54
70	Segmentation of cardiac sound signals by removing murmurs using constrained tunable-Q wavelet transform. Biomedical Signal Processing and Control, 2013, 8, 559-567.	3.5	53
71	An iterative approach for decomposition of multi-component non-stationary signals based on eigenvalue decomposition of the Hankel matrix. Journal of the Franklin Institute, 2015, 352, 4017-4044.	1.9	52
72	Epileptic-seizure classification using phase-space representation of FBSE-EWT based EEG sub-band signals and ensemble learners. Biomedical Signal Processing and Control, 2022, 71, 103138.	3.5	52

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73	Use of Accumulated Entropies for Automated Detection of Congestive Heart Failure in Flexible Analytic Wavelet Transform Framework Based on Short-Term HRV Signals. Entropy, 2017, 19, 92.	1.1	50
74	An automatic subject specific channel selection method for enhancing motor imagery classification in EEG-BCI using correlation. Biomedical Signal Processing and Control, 2021, 68, 102574.	3.5	50
75	Automated glaucoma detection using quasi‐bivariate variational mode decomposition from fundus images. IET Image Processing, 2019, 13, 2401-2408.	1.4	48
76	A fractional filter based efficient algorithm for retinal blood vessel segmentation. Biomedical Signal Processing and Control, 2020, 59, 101883.	3.5	48
77	Optimal duration-bandwidth localized antisymmetric biorthogonal wavelet filters. Signal Processing, 2017, 134, 87-99.	2.1	46
78	Automated classification of hand movements using tunable-Q wavelet transform based filter-bank with surface electromyogram signals. Future Generation Computer Systems, 2019, 93, 96-110.	4.9	45
79	Event-Based Method for Instantaneous Fundamental Frequency Estimation from Voiced Speech Based on Eigenvalue Decomposition of the Hankel Matrix. IEEE/ACM Transactions on Audio Speech and Language Processing, 2014, 22, 1467-1482.	4.0	44
80	Detection of sleep apnea from heart beat interval and ECG derived respiration signals using sliding mode singular spectrum analysis. , 2020, 104, 102796.		44
81	APPLICATION OF EMPIRICAL MODE DECOMPOSITION‐BASED FEATURES FOR ANALYSIS OF NORMAL AND CAD HEART RATE SIGNALS. Journal of Mechanics in Medicine and Biology, 2016, 16, 1640002.	0.3	43
82	Speech enhancement based on mEMD‐VMD method. Electronics Letters, 2017, 53, 502-504.	0.5	42
83	A parametrization technique to design joint time‐frequency optimized discrete-time biorthogonal wavelet bases. Signal Processing, 2017, 135, 107-120.	2.1	41
84	Automated glaucoma diagnosis using bit-plane slicing and local binary pattern techniques. Computers in Biology and Medicine, 2019, 105, 72-80.	3.9	41
85	Novel Approaches for the Removal of Motion Artifact From EEG Recordings. IEEE Sensors Journal, 2019, 19, 10600-10608.	2.4	40
86	A deep stacked random vector functional link network autoencoder for diagnosis of brain abnormalities and breast cancer. Biomedical Signal Processing and Control, 2020, 58, 101860.	3.5	39
87	Design of Time‐Frequency Optimal Three-Band Wavelet Filter Banks with Unit Sobolev Regularity Using Frequency Domain Sampling. Circuits, Systems, and Signal Processing, 2016, 35, 4501-4531.	1.2	37
88	Determination of instantaneous fundamental frequency of speech signals using variational mode decomposition. Computers and Electrical Engineering, 2017, 62, 630-647.	3.0	37
89	A novel approach for time‐frequency localization of scaling functions and design of three-band biorthogonal linear phase wavelet filter banks. , 2017, 69, 309-322.		37
90	Accurate automated detection of congestive heart failure using eigenvalue decomposition based features extracted from HRV signals. Biocybernetics and Biomedical Engineering, 2019, 39, 312-327.	3.3	37

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91	COVID-19 disease identification from chest CT images using empirical wavelet transformation and transfer learning. Biomedical Signal Processing and Control, 2022, 71, 103076.	3.5	37
92	Design of Time–Frequency Localized Filter Banks: Transforming Non-convex Problem into Convex Via Semidefinite Relaxation Technique. Circuits, Systems, and Signal Processing, 2016, 35, 3716-3733.	1.2	36
93	Joint Time-Frequency Domain-Based CAD Disease Sensing System Using ECG Signals. IEEE Sensors Journal, 2019, 19, 3912-3920.	2.4	36
94	Automated FBSE-EWT based learning framework for detection of epileptic seizures using time-segmented EEG signals. Computers in Biology and Medicine, 2021, 136, 104708.	3.9	36
95	Automated Alcoholism Detection Using Fourier-Bessel Series Expansion Based Empirical Wavelet Transform. IEEE Sensors Journal, 2020, 20, 4914-4924.	2.4	35
96	Variable cosine windowing of intrinsic mode functions: Application to gear fault diagnosis. Measurement: Journal of the International Measurement Confederation, 2012, 45, 415-426.	2.5	34
97	FBDM based time-frequency representation for sleep stages classification using EEG signals. Biomedical Signal Processing and Control, 2021, 64, 102265.	3.5	34
98	Efficient detection of myocardial infarction from single lead ECG signal. Biomedical Signal Processing and Control, 2021, 68, 102678.	3.5	34
99	Human Emotion Classification from EEG Signals Using Multiwavelet Transform. , 2014, , .		33
100	Detection of Human Emotions Using Features Based on the Multiwavelet Transform of EEG Signals. Intelligent Systems Reference Library, 2015, , 215-240.	1.0	32
101	Empirical Mode Decomposition-Based Detection of Bend-Induced Error and Its Correction in a Raman Optical Fiber Distributed Temperature Sensor. IEEE Sensors Journal, 2016, 16, 1243-1252.	2.4	32
102	Application of TQWT based filter-bank for sleep apnea screening using ECG signals. Journal of Ambient Intelligence and Humanized Computing, 0, , 1.	3.3	32
103	Elimination of Ocular Artifacts From Single Channel EEG Signals Using FBSE-EWT Based Rhythms. IEEE Sensors Journal, 2020, 20, 3687-3696.	2.4	32
104	EEG Signal Classification Using Empirical Mode Decomposition and Support Vector Machine. Advances in Intelligent and Soft Computing, 2012, , 623-635.	0.2	31
105	An efficient method for identification of epileptic seizures from EEG signals using Fourier analysis. Physical and Engineering Sciences in Medicine, 2021, 44, 443-456.	1.3	31
106	Classification of Normal and Epileptic Seizure EEG Signals Based on Empirical Mode Decomposition. Studies in Fuzziness and Soft Computing, 2015, , 367-388.	0.6	31
107	Hand movement recognition from sEMG signals using Fourier decomposition method. Biocybernetics and Biomedical Engineering, 2021, 41, 690-703.	3.3	30
108	Discrimination of Focal and Non-Focal Seizures From EEG Signals Using Sliding Mode Singular Spectrum Analysis. IEEE Sensors Journal, 2019, 19, 12286-12296.	2.4	29

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109	Classification of focal EEG signals using FBSE based flexible time-frequency coverage wavelet transform. Biomedical Signal Processing and Control, 2020, 62, 102124.	3.5	29
110	EEG-Based Detection of Focal Seizure Area Using FBSE-EWT Rhythm and SAE-SVM Network. IEEE Sensors Journal, 2020, 20, 11421-11428.	2.4	28
111	AN IMPROVED ONLINE PARADIGM FOR SCREENING OF DIABETIC PATIENTS USING RR-INTERVAL SIGNALS. Journal of Mechanics in Medicine and Biology, 2016, 16, 1640003.	0.3	27
112	A novel approach for classification of mental tasks using multiview ensemble learning (MEL). Neurocomputing, 2020, 417, 558-584.	3.5	27
113	Automated focal EEG signal detection based on third order cumulant function. Biomedical Signal Processing and Control, 2020, 58, 101856.	3.5	27
114	Automated classification of lung sound signals based on empirical mode decomposition. Expert Systems With Applications, 2021, 184, 115456.	4.4	27
115	Automatic Diagnosis of Different Grades of Diabetic Retinopathy and Diabetic Macular Edema Using 2-D-FBSE-FAWT. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-9.	2.4	27
116	A multivariate empirical mode decomposition based filtering for subject independent BCI. , 2016, , .		26
117	AUTOMATED GLAUCOMA DETECTION USING CENTER SLICE OF HIGHER ORDER STATISTICS. Journal of Mechanics in Medicine and Biology, 2019, 19, 1940011.	0.3	26
118	A Multi-Channel Approach for Cortical Stimulation Artefact Suppression in Depth EEG Signals Using Time-Frequency and Spatial Filtering. IEEE Transactions on Biomedical Engineering, 2019, 66, 1915-1926.	2.5	26
119	Automated classification of valvular heart diseases using FBSE-EWT and PSR based geometrical features. Biomedical Signal Processing and Control, 2022, 73, 103445.	3.5	26
120	Computer aided detection of abnormal EMG signals based on tunable-Q wavelet transform. , 2017, , .		25
121	Separation of Rhythms of EEG Signals Based on Hilbert-Huang Transformation with Application to Seizure Detection. Lecture Notes in Computer Science, 2012, , 493-500.	1.0	24
122	Generalized Fractional Filter-Based Algorithm for Image Denoising. Circuits, Systems, and Signal Processing, 2020, 39, 363-390.	1.2	24
123	Histogram refinement for texture descriptor based image retrieval. Signal Processing: Image Communication, 2017, 53, 73-85.	1.8	23
124	Improved Eigenvalue Decomposition-Based Approach for Reducing Cross-Terms in Wignerâ€"Ville Distribution. Circuits, Systems, and Signal Processing, 2018, 37, 3330-3350.	1.2	23
125	A novel method for the classification of Alzheimer's disease from normal controls using magnetic resonance imaging. Expert Systems, 2021, 38, .	2.9	23
126	Eigenvalue Decomposition of Hankel Matrix-Based Time-Frequency Representation for Complex Signals. Circuits, Systems, and Signal Processing, 2018, 37, 3313-3329.	1.2	22

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127	An empirical wavelet transform-based approach for cross-terms-free Wignerâ€"Ville distribution. Signal, Image and Video Processing, 2020, 14, 249-256.	1.7	22
128	Automated diagnosis of muscle diseases from EMG signals using empirical mode decomposition based method. Biomedical Signal Processing and Control, 2022, 71, 103098.	3.5	22
129	Automated Detection of Posterior Myocardial Infarction From Vectorcardiogram Signals Using Fourierâ€"Bessel Series Expansion Based Empirical Wavelet Transform. , 2021, 5, 1-4.		21
130	Derived vectorcardiogram based automated detection of posterior myocardial infarction using FBSE-EWT technique. Biomedical Signal Processing and Control, 2021, 70, 103051.	3.5	21
131	EEG signal based seizure detection focused on Hjorth parameters from tunable-Q wavelet sub-bands. Biomedical Signal Processing and Control, 2022, 76, 103645.	3.5	21
132	A novel framework for retinal vessel segmentation using optimal improved frangi filter and adaptive weighted spatial FCM. Computers in Biology and Medicine, 2022, 147, 105770.	3.9	21
133	Parametric representation of speech employing multi-component AFM signal model. International Journal of Speech Technology, 2015, 18, 287-303.	1.4	20
134	A NEW TECHNIQUE FOR CLASSIFICATION OF FOCAL AND NONFOCAL EEG SIGNALS USING HIGHER-ORDER SPECTRA. Journal of Mechanics in Medicine and Biology, 2019, 19, 1940010.	0.3	20
135	Classification of seizure and non-seizure EEG signals based on EMD-TQWT method. , 2017, , .		19
136	Automated gear fault detection of micron level wear in bevel gears using variational mode decomposition. Journal of Mechanical Science and Technology, 2019, 33, 5769-5777.	0.7	19
137	Classification of seizure and seizure-free EEG signals using multi-level local patterns. , 2014, , .		18
138	Automated identification of epileptic seizure EEG signals using empirical wavelet transform based Hilbert marginal spectrum. , 2017, , .		18
139	Automated Identification System for Focal EEG Signals Using Fractal Dimension of FAWT-Based Sub-bands Signals. Advances in Intelligent Systems and Computing, 2019, , 583-596.	0.5	18
140	Postural time-series analysis using Empirical Mode Decomposition and second-order difference plots. , 2009, , .		17
141	Marginal energy density over the low frequency range as a feature for voiced/non-voiced detection in noisy speech signals. Journal of the Franklin Institute, 2013, 350, 698-716.	1.9	17
142	FBSE-EWT-Based Approach for the Determination of Respiratory Rate From PPG Signals. , 2019, 3, 1-4.		17
143	Logistic Regression With Tangent Space-Based Cross-Subject Learning for Enhancing Motor Imagery Classification. IEEE Transactions on Cognitive and Developmental Systems, 2022, 14, 1188-1197.	2.6	17
144	Automatic diagnosis of COVID-19 and pneumonia using FBD method. , 2020, , .		17

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145	Automated Detection of Pulmonary Diseases From Lung Sound Signals Using Fixed-Boundary-Based Empirical Wavelet Transform. , 2022, 6, 1-4.		17
146	Speech Analysis using Fourier-Bessel Expansion and Discrete Energy Separation Algorithm. , 2006, , .		15
147	A Nonparametric Approach for Multicomponent AM–FM Signal Analysis. Circuits, Systems, and Signal Processing, 2020, 39, 6316-6357.	1.2	15
148	Classification of chronic myeloid leukemia neutrophils by hyperspectral imaging using Euclidean and Mahalanobis distances. Biomedical Signal Processing and Control, 2021, 70, 103025.	3.5	15
149	Classification of epileptic electroencephalogram signals using tunable-Q wavelet transform based filter-bank. Journal of Ambient Intelligence and Humanized Computing, 2024, 15, 877-891.	3.3	15
150	Classification of magnetic resonance brain images using bi-dimensional empirical mode decomposition and autoregressive model. Biomedical Engineering Letters, 2015, 5, 311-320.	2.1	14
151	A new method for non-stationary signal analysis using eigenvalue decomposition of the Hankel matrix and Hilbert transform. , 2017, , .		14
152	Automated Gearbox Fault Diagnosis Using Entropy-Based Features in Flexible Analytic Wavelet Transform (FAWT) Domain. Journal of Vibration Engineering and Technologies, 2021, 9, 1703-1713.	1.3	14
153	An Automated Alcoholism Detection Using Orthogonal Wavelet Filter Bank. Advances in Intelligent Systems and Computing, 2019, , 473-483.	0.5	14
154	GCI identification from voiced speech using the eigen value decomposition of Hankel matrix. , 2013, , .		13
155	Vehicle license plate localization using wavelets. , 2013, , .		13
156	Automated CAD Identification System Using Time–Frequency Representation Based on Eigenvalue Decomposition of ECG Signals. Advances in Intelligent Systems and Computing, 2019, , 597-608.	0.5	13
157	Constrained Tunable-Q Wavelet Transform based Analysis of Cardiac Sound Signals. AASRI Procedia, 2013, 4, 57-63.	0.6	12
158	Focal EEG signal detection based on constant-bandwidth TQWT filter-banks. , 2018, , .		12
159	Automated Classification of Focal and Non-Focal EEG Signals Based on Bivariate Empirical Mode Decomposition. Advances in Medical Technologies and Clinical Practice Book Series, 2018, , 13-33.	0.3	12
160	Identification of Epileptic Seizures from Scalp EEG Signals Based on TQWT. Advances in Intelligent Systems and Computing, 2019, , 209-221.	0.5	11
161	Automated Identification of Epileptic Seizures from EEG Signals Using FBSE-EWT Method. Series in Bioengineering, 2020, , 157-179.	0.3	11
162	Sparse spectrum based swarm decomposition for robust nonstationary signal analysis with application to sleep apnea detection from EEG. Biomedical Signal Processing and Control, 2022, 77, 103792.	3.5	11

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163	Instantaneous fundamental frequency estimation of speech signals using DESA in low-frequency region. , 2013, , .		10
164	Empirical mode decomposition based dynamic error correction in SS covered 62.5/125Âµm optical fiber based distributed temperature sensor. Optics and Laser Technology, 2015, 67, 107-118.	2.2	10
165	Tunable-Q wavelet transform based optimal compression of cardiac sound signals. , 2016, , .		10
166	Fourier-Bessel series expansion based technique for automated classification of focal and non-focal EEG signals. , 2018, , .		10
167	Directional local ternary co-occurrence pattern for natural image retrieval. Multimedia Tools and Applications, 2021, 80, 15901-15920.	2.6	10
168	Automated Recognition of Imagined Commands From EEG Signals Using Multivariate Fast and Adaptive Empirical Mode Decomposition Based Method. , 2022, 6, 1-4.		10
169	A new method for determination of instantaneous pitch frequency from speech signals. , 2015, , .		9
170	Comparing the capabilities of transfer learning models to detect skin lesion in humans. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2020, 234, 1083-1093.	1.0	9
171	Time-frequency analysis using time-order representation and Wigner distribution. , 2008, , .		8
172	Analysis of center of pressure signals using Empirical Mode Decomposition and Fourier-Bessel expansion. , 2008, , .		8
173	Time-Order Representation Based Method for Epoch Detection from Speech Signals. Journal of Intelligent Systems, 2012, 21, .	1.2	8
174	Instantaneous Area Based Online Detection of Bend Generated Error in a Raman Optical Fiber Distributed Temperature Sensor. , 2017, 1, 1-4.		8
175	Sliding Mode Singular Spectrum Analysis for the Elimination of Cross-Terms in Wignerâ€"Ville Distribution. Circuits, Systems, and Signal Processing, 2021, 40, 1207-1232.	1.2	8
176	Comparison Analysis: Single and Multichannel EMD-Based Filtering with Application to BCI. Advances in Intelligent Systems and Computing, 2019, , 107-118.	0.5	8
177	Double Density Dual-Tree Complex Wavelet Transform-Based Features for Automated Screening of Knee-Joint Vibroarthrographic Signals. Advances in Intelligent Systems and Computing, 2019, , 279-290.	0.5	8
178	Electromyogram Signal Analysis Using Eigenvalue Decomposition of the Hankel Matrix. Advances in Intelligent Systems and Computing, 2019, , 671-682.	0.5	8
179	Classification of EMG Signals Using Eigenvalue Decomposition-Based Time-Frequency Representation. Advances in Bioinformatics and Biomedical Engineering Book Series, 2020, , 96-118.	0.2	8
180	A Continuous Wavelet Transform Based Method for Detecting Heart Valve Disorders Using Phonocardiograph Signals. Communications in Computer and Information Science, 2012, , 513-520.	0.4	7

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181	Analysis of epileptic seizure EEG signals using reconstructed phase space of intrinsic mode functions. , 2014, , .		7
182	Computer-Aided Diagnosis of Epilepsy Using Bispectrum of EEG Signals. , 2019, , 197-220.		7
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