

Madhuchhanda Mitra

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.

74 papers	1,214 citations	17 h-index	34 g-index
83 ext. papers	1,528 ext. citations	2.6 avg, IF	5.05 L-index

#	Paper	IF	Citations
74	Application of Cross Wavelet Transform for ECG Pattern Analysis and Classification. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2014 , 63, 326-333	5.2	184
73	Empirical mode decomposition based ECG enhancement and QRS detection. <i>Computers in Biology and Medicine</i> , 2012 , 42, 83-92	7	169
72	A Rough-Set-Based Inference Engine for ECG Classification. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2006 , 55, 2198-2206	5.2	97
71	Detection of ECG characteristic points using Multiresolution Wavelet Analysis based Selective Coefficient Method. <i>Measurement: Journal of the International Measurement Confederation</i> , 2010 , 43, 255-261	4.6	92
70	Significance of Exhaled Breath Test in Clinical Diagnosis: A Special Focus on the Detection of Diabetes Mellitus. <i>Journal of Medical and Biological Engineering</i> , 2016 , 36, 605-624	2.2	65
69	Electric Power Quality. <i>Power Systems</i> , 2011 ,	0.4	52
68	Automated Identification of Myocardial Infarction Using Harmonic Phase Distribution Pattern of ECG Data. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2018 , 67, 2303-2313	5.2	49
67	R-Peak Detection Algorithm for Ecg using Double Difference And RR Interval Processing. <i>Procedia Technology</i> , 2012 , 4, 873-877		43
66	A lossless ECG data compression technique using ASCII character encoding. <i>Computers and Electrical Engineering</i> , 2011 , 37, 486-497	4.3	39
65	ECG Acquisition and Automated Remote Processing 2014 ,		36
64	ECG signal compression using ASCII character encoding and transmission via SMS. <i>Biomedical Signal Processing and Control</i> , 2013 , 8, 354-363	4.9	28
63	A statistical approach for determination of time plane features from digitized ECG. <i>Computers in Biology and Medicine</i> , 2011 , 41, 278-84	7	28
62	Increasing the accuracy of ECG based biometric analysis by data modelling. <i>Measurement: Journal of the International Measurement Confederation</i> , 2012 , 45, 1927-1932	4.6	21
61	Pattern defined heuristic rules and directional histogram based online ECG parameter extraction. <i>Measurement: Journal of the International Measurement Confederation</i> , 2009 , 42, 150-156	4.6	19
60	Generation of digital time database from paper ECG records and Fourier transform-based analysis for disease identification. <i>Computers in Biology and Medicine</i> , 2004 , 34, 551-60	7	18
59	ECG feature extraction and classification of anteroseptal myocardial infarction and normal subjects using discrete wavelet transform 2010 ,		17
58	QRS complex identification using Hilbert transform, variable threshold and slope reversal approach. <i>International Journal of Biomedical Engineering and Technology</i> , 2012 , 9, 301	1.3	17

57	Electrocardiogram compression technique for global system of mobile-based offline telecardiology application for rural clinics in India. <i>IET Science, Measurement and Technology</i> , 2012 , 6, 412	1.5	15
56	ECG feature extraction using differentiation, Hilbert transform, variable threshold and slope reversal approach. <i>Journal of Medical Engineering and Technology</i> , 2012 , 36, 372-86	1.8	13
55	Supervised model for Cochleagram feature based fundamental heart sound identification. <i>Biomedical Signal Processing and Control</i> , 2019 , 52, 32-40	4.9	12
54	Electrocardiogram data compression using adaptive bit encoding of the discrete Fourier transforms coefficients. <i>IET Science, Measurement and Technology</i> , 2015 , 9, 866-874	1.5	12
53	Detection of Induction Motor Broken Bar Fault Through Envelope Analysis Using Start-Up Current. <i>Procedia Technology</i> , 2012 , 4, 646-651		12
52	Characterization of cardiac arrhythmias by variational mode decomposition technique. <i>Biocybernetics and Biomedical Engineering</i> , 2017 , 37, 578-589	5.7	11
51	ECG beat classification based on discrete wavelet transformation and nearest neighbour classifier. <i>Journal of Medical Engineering and Technology</i> , 2013 , 37, 264-72	1.8	11
50	Symmetrical components and current Concordia based assessment of single phasing of an induction motor by feature pattern extraction method and radar analysis. <i>International Journal of Electrical Power and Energy Systems</i> , 2012 , 37, 43-49	5.1	11
49	An intelligent telecardiology system for offline wireless transmission and remote analysis of ECG. <i>Journal of Medical Engineering and Technology</i> , 2012 , 36, 358-65	1.8	9
48	Imposed target based modification of Taguchi method for feature optimisation with application in arrhythmia beat detection. <i>Expert Systems With Applications</i> , 2016 , 56, 268-281	7.8	9
47	ECG noise reduction using Fourier coefficient suppression 2014 ,		8
46	An Automated Algorithm to Extract Time Plane Features From the PPG Signal and its Derivatives for Personal Health Monitoring Application. <i>IETE Journal of Research</i> , 2019 , 1-13	0.9	7
45	Detection of ECG characteristic features using slope thresholding and relative magnitude comparison 2012 ,		7
44	Real time heart rate detection from PPG signal in noisy environment 2016 ,		7
43	A combined application of lossless and lossy compression in ECG processing and transmission via GSM-based SMS. <i>Journal of Medical Engineering and Technology</i> , 2015 , 39, 105-22	1.8	6
42	Assessment of crawling of an induction motor by stator current Concordia analysis. <i>Electronics Letters</i> , 2012 , 48, 841	1.1	6
41	Arduino-based noise robust online heart-rate detection. <i>Journal of Medical Engineering and Technology</i> , 2017 , 41, 170-178	1.8	5
40	A novel approach towards non-obstructive detection and classification of COPD using ECG derived respiration. <i>Australasian Physical and Engineering Sciences in Medicine</i> , 2019 , 42, 1011-1024	1.9	5

39	A bi-phase enabled serial acquisition system for remote processing of digitized ECG. <i>Computers and Electrical Engineering</i> , 2012 , 38, 68-74	4.3	5
38	Automated myocardial infarction identification based on interbeat variability analysis of the photoplethysmographic data. <i>Biomedical Signal Processing and Control</i> , 2020 , 57, 101747	4.9	5
37	Acoustic feature based unsupervised approach of heart sound event detection. <i>Computers in Biology and Medicine</i> , 2020 , 126, 103990	7	5
36	Analytical Tools for Motor Fault Diagnosis. <i>Power Systems</i> , 2016 , 29-55	0.4	5
35	Adaptive Band Limit Estimation based PPG data compression for portable home monitors. <i>Measurement: Journal of the International Measurement Confederation</i> , 2019 , 134, 153-165	4.6	5
34	Characterizing Atrial Fibrillation in Empirical Mode Decomposition Domain. <i>Journal of Medical and Biological Engineering</i> , 2016 , 36, 693-703	2.2	4
33	Biometric analysis using fused feature set from side face texture and electrocardiogram. <i>IET Science, Measurement and Technology</i> , 2017 , 11, 226-233	1.5	4
32	2D Screening Length in Ultrathin Films Under Intense Electric Field. <i>Journal of Computational and Theoretical Nanoscience</i> , 2015 , 12, 1898-1910	0.3	4
31	A Robust PPG Onset and Systolic Peak Detection Algorithm Based On Hilbert Transform 2020 ,		3
30	Automated ECG analysis using Fourier harmonic phase 2017 ,		3
29	QRS Complex detection using Empirical Mode Decomposition based windowing technique 2010 ,		3
28	ECG based biometric authentication-a novel data modelling approach 2011 ,		3
27	A classification approach for myocardial infarction using voltage features extracted from four standard ECG leads 2011 ,		3
26	PPG-BASED AUTOMATED ESTIMATION OF BLOOD PRESSURE USING PATIENT-SPECIFIC NEURAL NETWORK MODELING. <i>Journal of Mechanics in Medicine and Biology</i> , 2020 , 20, 2050037	0.7	3
25	Development of a State-of-the-Art ECG DAS for Storing, Processing and Analysis Using MATLAB-Based GUI and Microprocessor 2009 ,		2
24	ECG Feature Extraction by Multi Resolution Wavelet Analysis based Selective Coefficient Method. <i>IFMBE Proceedings</i> , 2009 , 590-593	0.2	2
23	Power quality assessment in V-V, Clarke and Park domain 2007 ,		2
22	Induction Motor Fault Diagnosis: General Discussion and Research Scope. <i>Power Systems</i> , 2016 , 153-158	0.4	2

21	Automated Screening of Myocardial Infarction Based on Statistical Analysis of Photoplethysmographic Data. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020 , 69, 2881-2890	5.2	2
20	PPG Noise Reduction based on Adaptive Frequency Suppression using Discrete Fourier Transform for Portable Home Monitoring Applications 2018 ,		2
19	Automated feature extraction of ECG signal by position-index searching method 2016 ,		1
18	DSP implementation of a novel envelope analysis approach for the diagnosis of broken rotor bar in induction motor. <i>International Journal of Modelling, Identification and Control</i> , 2014 , 22, 275	0.6	1
17	Novel approach for detection of inter-turn short circuit of induction motor's stator winding through envelope analysis 2014 ,		1
16	ECG Signal Analysis 2014 , 15-49		0
15	EEG Based Automated Detection of Six Different Eye Movement Conditions for Implementation in Personal Assistive Application. <i>Wireless Personal Communications</i> ,1	1.9	0
14	Effortless detection of premature ventricular contraction using computerized analysis of photoplethysmography signal. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2022 , 47, 1	1	0
13	Deep learning approach of murmur detection using Cochleagram. <i>Biomedical Signal Processing and Control</i> , 2022 , 77, 103747	4.9	0
12	Healthcare Automation System by Using Cloud-Based Telemonitoring Technique for Cardiovascular Disease Classification. <i>International Journal of Web-Based Learning and Teaching Technologies</i> , 2020 , 15, 46-63	0.9	
11	Broken Rotor Bar. <i>Power Systems</i> , 2016 , 57-78	0.4	
10	Rotor Mass Unbalance. <i>Power Systems</i> , 2016 , 79-104	0.4	
9	Single Phasing of an Induction Motor. <i>Power Systems</i> , 2016 , 137-146	0.4	
8	Crawling of an Induction Motor. <i>Power Systems</i> , 2016 , 147-151	0.4	
7	Harmonics Assessment by FPEM in Clarke and Park Planes. <i>Power Systems</i> , 2011 , 97-106	0.4	
6	Unbalance Assessment Using Feature Pattern Extraction Method. <i>Power Systems</i> , 2011 , 63-75	0.4	
5	ECG Transmission 2014 , 73-94		
4	Automated Identification of Myocardial Infarction Using a Single Vectorcardiographic Feature. <i>Advances in Intelligent Systems and Computing</i> , 2019 , 641-651	0.4	

- 3 Healthcare Automation System by Using Cloud-Based Telemonitoring Technique for Cardiovascular Disease Classification **2021**, 474-493
- 2 Median Filter Based Noise Reduction and QRS Detection in ECG Signal. *Lecture Notes in Electrical Engineering*, **2022**, 67-76 0.2
- 1 Automatic identification of asthma from ECG derived respiration using complete ensemble empirical mode decomposition with adaptive noise and principal component analysis. *Biomedical Signal Processing and Control*, **2022**, 77, 103716 4.9