

Goutam Saha

List of Publications by Year in descending order

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Version: 2024-02-01

130
papers

2,710
citations

218381

26
h-index

223531

46
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134
all docs

134
docs citations

134
times ranked

2341
citing authors

#	ARTICLE	IF	CITATIONS
1	Ensembled Transfer Learning and Multiple Kernel Learning for Phonocardiogram Based Atherosclerotic Coronary Artery Disease Detection. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 2804-2813.	3.9	12
2	Localized multiple kernel learning using graph modularity. Pattern Recognition Letters, 2022, 155, 27-33.	2.6	4
3	Knowledge, attitude, and practice of Bangladeshi residents during COVID-19 pandemic. PLOS Global Public Health, 2022, 2, e0000407.	0.5	1
4	Influence of music liking on EEG based emotion recognition. Biomedical Signal Processing and Control, 2021, 64, 102251.	3.5	43
5	Robust kernelized graph-based learning. Pattern Recognition, 2021, 110, 107628.	5.1	13
6	Automatic lung sound cycle extraction from single and multichannel acoustic recordings. Biomedical Signal Processing and Control, 2021, 64, 102332.	3.5	3
7	Speech frame selection for spoofing detection with an application to partially spoofed audio-data. International Journal of Speech Technology, 2021, 24, 193-203.	1.4	8
8	Conjugate forced convection transient flow and heat transfer analysis in a hexagonal, partitioned, air filled cavity with dynamic modulator. International Journal of Heat and Mass Transfer, 2021, 167, 120786.	2.5	19
9	Effect of environmental and socio-economic factors on the spreading of COVID-19 at 70 cities/provinces. Heliyon, 2021, 7, e06979.	1.4	15
10	COVID-19 Re-infection: A Case Report of a Bangladeshi Doctor. Bangladesh Journal of Medicine, 2021, 32, 58-61.	0.0	0
11	Galerkin Approximations for the Solution of Fredholm Volterra Integral Equation of Second Kind. GANIT Journal of Bangladesh Mathematical Society, 2021, 41, 1-14.	0.3	1
12	Cross-Corpora Language Recognition: A Preliminary Investigation with Indian Languages. , 2021, , .		4
13	Switch or stay? Automatic classification of internal mental states in bistable perception. Cognitive Neurodynamics, 2020, 14, 95-113.	2.3	9
14	A Low-Error, Memory-Based Fast Binary Logarithmic Converter. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 2129-2133.	2.2	1
15	Analysis and classification of acoustic scenes with wavelet transform-based mel-scaled features. Multimedia Tools and Applications, 2020, 79, 7911-7926.	2.6	14
16	Two-level fusion-based acoustic scene classification. Applied Acoustics, 2020, 170, 107502.	1.7	14
17	Detection of coronary artery atherosclerotic disease using novel features from synchrosqueezing transform of phonocardiogram. Biomedical Signal Processing and Control, 2020, 62, 102055.	3.5	16
18	Windkessel Model-Based Cuffless Blood Pressure Estimation Using Continuous Wave Doppler Ultrasound System. IEEE Sensors Journal, 2020, 20, 9989-9999.	2.4	9

#	ARTICLE	IF	CITATIONS
19	A Fusion Based Classification of Normal, Arrhythmia and Congestive Heart Failure in ECG. , 2020, , .		10
20	Optimization of data-driven filterbank for automatic speaker verification. , 2020, 104, 102795.		26
21	Single resistive sensor for selective detection of multiple VOCs employing SnO ₂ hollowspheres and machine learning algorithm: A proof of concept. Sensors and Actuators B: Chemical, 2020, 321, 128484.	4.0	66
22	Improved Speech-Signal Based Frequency Warping Scale for Cepstral Feature in Robust Speaker Verification System. Journal of Signal Processing Systems, 2020, 92, 679-692.	1.4	5
23	An improved method to detect coronary artery disease using phonocardiogram signals in noisy environment. Applied Acoustics, 2020, 164, 107242.	1.7	18
24	Classification of Autism in Young Children by Phase Angle Clustering in Magnetoencephalogram Signals. , 2020, , .		8
25	Low-Rank Kernelized Graph-based Clustering using Multiple Views. , 2020, , .		1
26	Kernelized Graph-based Multi-view Clustering on High Dimensional Data. , 2020, , .		0
27	Smartphone-Based Point-of-Care System Using Continuous-Wave Portable Doppler. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 8352-8361.	2.4	10
28	Effect of Familiarity on Recognition of Pleasant and Unpleasant Emotional States Induced by Hindi Music Videos. Advances in Intelligent Systems and Computing, 2020, , 227-238.	0.5	1
29	Feature Selection for High-Dimensional Data Through Instance Vote Combining. , 2020, , .		0
30	An instance voting approach to feature selection. Information Sciences, 2019, 504, 449-469.	4.0	16
31	Detection of peripheral arterial disease using Doppler spectrogram based expert system for Point-of-Care applications. Biomedical Signal Processing and Control, 2019, 54, 101599.	3.5	6
32	A machine learning approach to predict perceptual decisions: an insight into face pareidolia. Brain Informatics, 2019, 6, 2.	1.8	14
33	Quality measures for speaker verification with short utterances. , 2019, 88, 66-79.		11
34	Classification of coronary artery diseased and normal subjects using multi-channel phonocardiogram signal. Biocybernetics and Biomedical Engineering, 2019, 39, 426-443.	3.3	40
35	Texture Features for High-level Classification of Acoustic Scenes. , 2019, , .		0
36	Numerical Approximation of Fredholm Integral Equation (FIE) of 2nd Kind using Galerkin and Collocation Methods. GANIT Journal of Bangladesh Mathematical Society, 2019, 38, 11-25.	0.3	0

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37	Gaussian Filter Based Data-Driven Cepstral Features for Robust Speaker Verification System. , 2019, , .		0
38	Investigating the Influence of Prior Expectation in Face Pareidolia using Spatial Pattern. Advances in Intelligent Systems and Computing, 2019, , 437-451.	0.5	6
39	Classification of audio scenes with novel features in a fused system framework. , 2018, 75, 71-82.		20
40	Speaker verification with short utterances: a review of challenges, trends and opportunities. IET Biometrics, 2018, 7, 91-101.	1.6	68
41	Investigation of the characteristics of nanofluids flow and heat transfer in a pipe using a single phase model. International Communications in Heat and Mass Transfer, 2018, 93, 48-59.	2.9	21
42	Multichannel lung sound analysis for asthma detection. Computer Methods and Programs in Biomedicine, 2018, 159, 111-123.	2.6	50
43	Synthetic speech detection using fundamental frequency variation and spectral features. Computer Speech and Language, 2018, 48, 31-50.	2.9	36
44	Improved i-vector extraction technique for speaker verification with short utterances. International Journal of Speech Technology, 2018, 21, 473-488.	1.4	5
45	Improved computerized cardiac auscultation by discarding artifact contaminated PCG signal sub-sequence. Biomedical Signal Processing and Control, 2018, 41, 48-62.	3.5	13
46	Classification of Normal, Asthma and COPD Subjects Using Multichannel Lung Sound Signals. , 2018, , .		17
47	Identification of Coronary Artery Diseased Subjects Using Spectral Features. , 2018, , .		4
48	Parameters Effect on Heat Transfer Augmentation in a Cavity with Moving Horizontal Walls. Journal of Applied Mathematics and Physics, 2018, 06, 1907-1915.	0.2	1
49	Transition of nanofluids flow in an inclined heated pipe. International Communications in Heat and Mass Transfer, 2017, 82, 49-62.	2.9	9
50	Generalization of spoofing countermeasures: A case study with ASVspoof 2015 and BTAS 2016 corpora. , 2017, , .		22
51	Spectral Features for Synthetic Speech Detection. IEEE Journal on Selected Topics in Signal Processing, 2017, 11, 605-617.	7.3	53
52	Spectral Mapping Using Prior Re-Estimation of i-Vectors and System Fusion for Voice Conversion. IEEE/ACM Transactions on Audio Speech and Language Processing, 2017, 25, 2071-2084.	4.0	3
53	Decoding mental states in bistable perception by using source based wavelet features. , 2017, , .		0
54	A Machine Learning Approach to Decode Mental States in Bistable Perception. , 2017, , .		2

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55	A novel spectrogram based approach towards automatic lung sound cycle extraction. , 2017, , .		1
56	Identification of Coronary Artery Disease using Cross Power Spectral Density. , 2017, , .		3
57	Novel Quality Metric for Duration Variability Compensation in Speaker Verification using i-Vectors. , 2017, , .		0
58	Smartphone based blood flow feature extraction and classification from Doppler spectrum images. , 2016, , .		1
59	Overview of BTAS 2016 speaker anti-spoofing competition. , 2016, , .		45
60	Lung sound classification using cepstral-based statistical features. Computers in Biology and Medicine, 2016, 75, 118-129.	3.9	130
61	Identification of the Major Language Families of India and Evaluation of their Mutual Influence. Current Science, 2016, 110, 667.	0.4	3
62	Novel speech features for improved detection of spoofing attacks. , 2015, , .		12
63	Novel algorithm to identify and differentiate specific digital signature of breath sound in patients with diffuse parenchymal lung disease. Respirology, 2015, 20, 633-639.	1.3	4
64	Performance comparison of speaker recognition systems in presence of duration variability. , 2015, , .		17
65	Optimization of cepstral features for robust lung sound classification. , 2015, , .		4
66	Study on Similarity among Indian Languages Using Language Verification Framework. Advances in Artificial Intelligence, 2015, 2015, 1-24.	0.9	13
67	On robustness of speech based biometric systems against voice conversion attack. Applied Soft Computing Journal, 2015, 30, 214-228.	4.1	28
68	Analysis of Heat Transfer and Entropy Generation of TiO ₂ -Water Nanofluid Flow in a Pipe under Transition. Procedia Engineering, 2015, 105, 381-387.	1.2	5
69	Heat transfer and entropy generation of turbulent forced convection flow of nanofluids in a heated pipe. International Communications in Heat and Mass Transfer, 2015, 61, 26-36.	2.9	30
70	Interpretation of Heart Sound Signal through Automated Artifact-Free Segmentation. Heart Research - Open Journal, 2015, 2, 25-34.	0.2	7
71	Detection of Lungs Status Using Morphological Complexities of Respiratory Sounds. Scientific World Journal, The, 2014, 2014, 1-9.	0.8	39
72	A Discrete Wavelet Packet Transform Based Approach for Selection of Artifact-Free Phonocardiogram Segment. , 2014, , .		3

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73	Numerical analysis of the heat transfer behaviour of water based Al ₂ O ₃ and TiO ₂ nanofluids in a circular pipe under the turbulent flow condition. International Communications in Heat and Mass Transfer, 2014, 56, 96-108.	2.9	65
74	Classification of emotions induced by music videos and correlation with participants's rating. Expert Systems With Applications, 2014, 41, 6057-6065.	4.4	79
75	An automated tool for localization of heart sound components S1, S2, S3 and S4 in pulmonary sounds using Hilbert transform and Heron's formula. SpringerPlus, 2013, 2, 512.	1.2	35
76	Boundary estimation of cardiac events S1 and S2 based on Hilbert transform and adaptive thresholding approach. , 2013, , .		10
77	Recognition of emotions induced by music videos using DT-CWPT. , 2013, , .		27
78	A Novel Windowing Technique for Efficient Computation of MFCC for Speaker Recognition. IEEE Signal Processing Letters, 2013, 20, 149-152.	2.1	65
79	Diagnosing of the lungs status using morphological anomalies of the signals in transformed domain. , 2012, , .		0
80	Automatic recognition of major language families in India. , 2012, , .		2
81	Faster BIC segmentation using local speaker modeling. , 2012, , .		0
82	Outlier removal and fusion techniques for robust speaker recognition applications. , 2012, , .		0
83	On the performance of IP and mobile based Automatic Speaker Verification. , 2012, , .		1
84	Neural activity profile for short time memory task. , 2012, , .		0
85	A novel approach in feature level for robust text-independent speaker identification system. , 2012, , .		11
86	A system for behavior prediction based on neural signals. Neurocomputing, 2012, 97, 214-222.	3.5	1
87	How We Choose One over Another: Predicting Trial-by-Trial Preference Decision. PLoS ONE, 2012, 7, e43351.	1.1	11
88	Graphical representations of membership functions of maximum and minimum of two fuzzy numbers using computer program. GANIT Journal of Bangladesh Mathematical Society, 2012, 31, 105-115.	0.3	2
89	Design, analysis and experimental evaluation of block based transformation in MFCC computation for speaker recognition. Speech Communication, 2012, 54, 543-565.	1.6	382
90	Bayesian marginal statistics for speech enhancement using log Gabor wavelet. International Journal of Speech Technology, 2011, 14, 193-210.	1.4	1

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91	A distance metric based outliers detection for robust Automatic Speaker Recognition applications. , 2011, , .		1
92	Reduction of heart sound interference from lung sound signals using empirical mode decomposition technique. Journal of Medical Engineering and Technology, 2011, 35, 344-353.	0.8	35
93	On the use of perceptual Line Spectral pairs Frequencies and higher-order residual moments for Speaker Identification. International Journal of Biometrics, 2010, 2, 358.	0.3	8
94	Real time implementation of speaker identification system with frame picking algorithm. Procedia Computer Science, 2010, 2, 173-180.	1.2	17
95	Spectral entropy and spectral shape based pre-quantization for real time speaker identification system. International Journal of Speech Technology, 2010, 13, 189-199.	1.4	2
96	Finite element simulation of magnetoconvection inside a sinusoidal corrugated enclosure with discrete isoflux heating from below. International Communications in Heat and Mass Transfer, 2010, 37, 393-400.	2.9	30
97	Detection of cardiac abnormality from PCG signal using LMS based least square SVM classifier. Expert Systems With Applications, 2010, 37, 8019-8026.	4.4	133
98	Feature selection using singular value decomposition and QR factorization with column pivoting for text-independent speaker identification. Speech Communication, 2010, 52, 693-709.	1.6	44
99	Effect of thermal radiation and heat generation on MHD flow past a uniformly heated vertical plate. Desalination and Water Treatment, 2010, 16, 57-65.	1.0	5
100	On the use of perceptual Line Spectral Pairs Frequencies for speaker identification. , 2010, , .		3
101	Relevant subspace selection in Kernel feature space for speech recognition. , 2010, , .		0
102	A Robust Iterative Energy Based Voice Activity Detector. , 2010, , .		4
103	Efficient pre-quantization techniques based on probability density for speaker recognition system. , 2009, , .		1
104	On the Use of Distributed DCT in Speaker Identification. , 2009, , .		14
105	Analysis of Distance Measures for Pre-Quantization before Feature Extraction in Automatic Speaker Recognition. , 2009, , .		3
106	Investigating long-range correlation properties in EEG during complex cognitive tasks. Chaos, Solitons and Fractals, 2009, 42, 2067-2073.	2.5	37
107	In search of an optimization technique for Artificial Neural Network to classify abnormal heart sounds. Applied Soft Computing Journal, 2009, 9, 330-340.	4.1	41
108	Investigating Neuromagnetic Brain Responses against Chromatic Flickering Stimuli by Wavelet Entropies. PLoS ONE, 2009, 4, e7173.	1.1	7

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109	Speech enhancement by joint statistical characterization in the Log Gabor Wavelet domain. Speech Communication, 2008, 50, 504-518.	1.6	5
110	DSP implementation of a heart valve disorder detection system from a phonocardiogram signal. Journal of Medical Engineering and Technology, 2008, 32, 122-132.	0.8	13
111	Improving speaker identification via Singular Value Decomposition based Feature Transformer. , 2008, , .		4
112	Classification of heart sounds using empirical mode decomposition based features. International Journal of Medical Engineering and Informatics, 2008, 1, 91.	0.2	30
113	A robust heart sound segmentation algorithm for commonly occurring heart valve diseases. Journal of Medical Engineering and Technology, 2008, 32, 456-465.	0.8	40
114	Natural convection in enclosure with discrete isothermal heating from below. Journal of Naval Architecture and Marine Engineering, 2008, 4, 1-13.	0.9	17
115	Applications of Gauss-Radau and Gauss-Lobatto Numerical Integrations Over a Four Node Quadrilateral Finite Element. Bangladesh Journal of Scientific and Industrial Research, 2008, 43, 377-386.	0.1	1
116	Capturing Complementary Information via Reversed Filter Bank and Parallel Implementation with MFCC for Improved Text-Independent Speaker Identification. , 2007, , .		15
117	ON A ROBUST ALGORITHM FOR HEART SOUND SEGMENTATION. Journal of Mechanics in Medicine and Biology, 2007, 07, 129-150.	0.3	24
118	Log Gabor Wavelet and Maximum a Posteriori Estimator in Speaker Identification. , 2006, , .		0
119	On An Algorithm for Boundary Estimation of Commonly Occurring Heart Valve Diseases in Time Domain. , 2006, , .		10
120	FPGA implementation of an automobile pollution control system using a MEMS accelerometer. , 2006, , .		1
121	Fusion of a Complementary Feature Set with MFCC for Improved Closed Set Text-Independent Speaker Identification. , 2006, , .		31
122	A Comparative Study of Feature Extraction Algorithms on ANN Based Speaker Model for Speaker Recognition Applications. Lecture Notes in Computer Science, 2004, , 1192-1197.	1.0	6
123	On robust nonlinear modeling of a complex process with large number of inputs using m-QRcp factorization and $C/\text{sub } p/$ statistic. IEEE Transactions on Systems, Man, and Cybernetics, 1999, 29, 1-12.	5.5	7
124	Robust method for periodicity detection and characterization of irregular cyclical series in terms of embedded periodic components. Physical Review E, 1999, 59, 4013-4025.	0.8	43
125	Fetal ECG extraction from single-channel maternal ECG using singular value decomposition. IEEE Transactions on Biomedical Engineering, 1997, 44, 51-59.	2.5	264
126	Fast successive selection of variables in linear models using modified QR factorisation. Electronics Letters, 1995, 31, 1204.	0.5	5

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127	An F-Ratio Based Optimization on Noisy Data for Speaker Recognition Application. , 0, , .		2
128	Analytical Solution of LiÃ©nard Differential Equation using Homotopy Perturbation Method. GANIT Journal of Bangladesh Mathematical Society, 0, 39, 87-100.	0.3	0
129	Wavelet Transform Based Mel-scaled Features for Acoustic Scene Classification. , 0, , .		17
130	Heat Transfer Behaviour Inside a Sinusoidal Cavity Using Water Based Tio2 Nanofluid. GANIT Journal of Bangladesh Mathematical Society, 0, 37, 121-129.	0.3	1