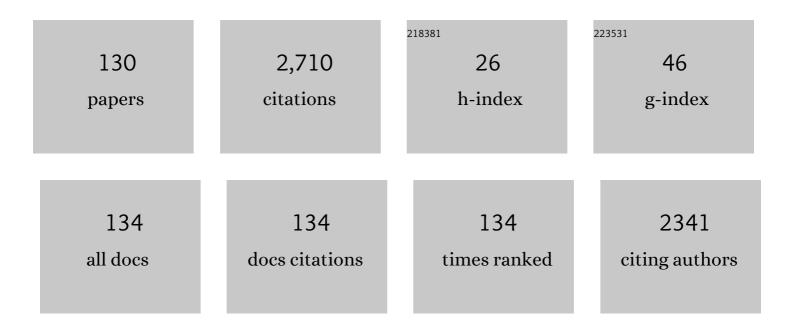
Goutam Saha

List of Publications by Year in descending order

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Сонтам Зана

#	Article	IF	CITATIONS
1	Design, analysis and experimental evaluation of block based transformation in MFCC computation for speaker recognition. Speech Communication, 2012, 54, 543-565.	1.6	382
2	Fetal ECG extraction from single-channel maternal ECG using singular value decomposition. IEEE Transactions on Biomedical Engineering, 1997, 44, 51-59.	2.5	264
3	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
4	Lung sound classification using cepstral-based statistical features. Computers in Biology and Medicine, 2016, 75, 118-129.	3.9	130
5	Classification of emotions induced by music videos and correlation with participants' rating. Expert Systems With Applications, 2014, 41, 6057-6065.	4.4	79
6	Speaker verification with short utterances: a review of challenges, trends and opportunities. IET Biometrics, 2018, 7, 91-101.	1.6	68
7	Single resistive sensor for selective detection of multiple VOCs employing SnO2 hollowspheres and machine learning algorithm: A proof of concept. Sensors and Actuators B: Chemical, 2020, 321, 128484.	4.0	66
8	A Novel Windowing Technique for Efficient Computation of MFCC for Speaker Recognition. IEEE Signal Processing Letters, 2013, 20, 149-152.	2.1	65
9	Numerical analysis of the heat transfer behaviour of water based Al2O3 and TiO2 nanofluids in a circular pipe under the turbulent flow condition. International Communications in Heat and Mass Transfer, 2014, 56, 96-108.	2.9	65
10	Spectral Features for Synthetic Speech Detection. IEEE Journal on Selected Topics in Signal Processing, 2017, 11, 605-617.	7.3	53
11	Multichannel lung sound analysis for asthma detection. Computer Methods and Programs in Biomedicine, 2018, 159, 111-123.	2.6	50
12	Overview of BTAS 2016 speaker anti-spoofing competition. , 2016, , .		45
13	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
14	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
15	Influence of music liking on EEG based emotion recognition. Biomedical Signal Processing and Control, 2021, 64, 102251.	3.5	43
16	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
17	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
18	Classification of coronary artery diseased and normal subjects using multi-channel phonocardiogram signal. Biocybernetics and Biomedical Engineering, 2019, 39, 426-443.	3.3	40

#	Article	IF	CITATIONS
19	Detection of Lungs Status Using Morphological Complexities of Respiratory Sounds. Scientific World Journal, The, 2014, 2014, 1-9.	0.8	39
20	Investigating long-range correlation properties in EEG during complex cognitive tasks. Chaos, Solitons and Fractals, 2009, 42, 2067-2073.	2.5	37
21	Synthetic speech detection using fundamental frequency variation and spectral features. Computer Speech and Language, 2018, 48, 31-50.	2.9	36
22	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
23	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
24	Fusion of a Complementary Feature Set with MFCC for Improved Closed Set Text-Independent Speaker Identification. , 2006, , .		31
25	Classification of heart sounds using empirical mode decomposition based features. International Journal of Medical Engineering and Informatics, 2008, 1, 91.	0.2	30
26	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
27	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
28	On robustness of speech based biometric systems against voice conversion attack. Applied Soft Computing Journal, 2015, 30, 214-228.	4.1	28
29	Recognition of emotions induced by music videos using DT-CWPT. , 2013, , .		27
30	Optimization of data-driven filterbank for automatic speaker verification. , 2020, 104, 102795.		26
31	ON A ROBUST ALGORITHM FOR HEART SOUND SEGMENTATION. Journal of Mechanics in Medicine and Biology, 2007, 07, 129-150.	0.3	24
32	Generalization of spoofing countermeasures: A case study with ASVspoof 2015 and BTAS 2016 corpora. , 2017, , .		22
33	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
34	Classification of audio scenes with novel features in a fused system framework. , 2018, 75, 71-82.		20
35	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
36	An improved method to detect coronary artery disease using phonocardiogram signals in noisy environment. Applied Acoustics, 2020, 164, 107242.	1.7	18

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37	Natural convection in enclosure with discrete isothermal heating from below. Journal of Naval Architecture and Marine Engineering, 2008, 4, 1-13.	0.9	17
38	Real time implementation of speaker identification system with frame picking algorithm. Procedia Computer Science, 2010, 2, 173-180.	1.2	17
39	Performance comparison of speaker recognition systems in presence of duration variability. , 2015, , .		17
40	Classification of Normal, Asthma and COPD Subjects Using Multichannel Lung Sound Signals. , 2018, , .		17
41	Wavelet Transform Based Mel-scaled Features for Acoustic Scene Classification. , 0, , .		17
42	An instance voting approach to feature selection. Information Sciences, 2019, 504, 449-469.	4.0	16
43	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
44	Capturing Complementary Information via Reversed Filter Bank and Parallel Implementation with MFCC for Improved Text-Independent Speaker Identification. , 2007, , .		15
45	Effect of environmental and socio-economic factors on the spreading of COVID-19 at 70 cities/provinces. Heliyon, 2021, 7, e06979.	1.4	15
46	On the Use of Distributed DCT in Speaker Identification. , 2009, , .		14
47	A machine learning approach to predict perceptual decisions: an insight into face pareidolia. Brain Informatics, 2019, 6, 2.	1.8	14
48	Analysis and classification of acoustic scenes with wavelet transform-based mel-scaled features. Multimedia Tools and Applications, 2020, 79, 7911-7926.	2.6	14
49	Two-level fusion-based acoustic scene classification. Applied Acoustics, 2020, 170, 107502.	1.7	14
50	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
51	Study on Similarity among Indian Languages Using Language Verification Framework. Advances in Artificial Intelligence, 2015, 2015, 1-24.	0.9	13
52	Improved computerized cardiac auscultation by discarding artifact contaminated PCG signal sub-sequence. Biomedical Signal Processing and Control, 2018, 41, 48-62.	3.5	13
53	Robust kernelized graph-based learning. Pattern Recognition, 2021, 110, 107628.	5.1	13
54	Novel speech features for improved detection of spoofing attacks. , 2015, , .		12

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55	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
56	A novel approach in feature level for robust text-independent speaker identification system. , 2012, , .		11
57	How We Choose One over Another: Predicting Trial-by-Trial Preference Decision. PLoS ONE, 2012, 7, e43351.	1.1	11
58	Quality measures for speaker verification with short utterances. , 2019, 88, 66-79.		11
59	On An Algorithm for Boundary Estimation of Commonly Occurring Heart Valve Diseases in Time Domain. , 2006, , .		10
60	Boundary estimation of cardiac events S1 and S2 based on Hilbert transform and adaptive thresholding approach. , 2013, , .		10
61	A Fusion Based Classification of Normal, Arrhythmia and Congestive Heart Failure in ECG. , 2020, , .		10
62	Smartphone-Based Point-of-Care System Using Continuous-Wave Portable Doppler. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 8352-8361.	2.4	10
63	Transition of nanofluids flow in an inclined heated pipe. International Communications in Heat and Mass Transfer, 2017, 82, 49-62.	2.9	9
64	Switch or stay? Automatic classification of internal mental states in bistable perception. Cognitive Neurodynamics, 2020, 14, 95-113.	2.3	9
65	Windkessel Model-Based Cuffless Blood Pressure Estimation Using Continuous Wave Doppler Ultrasound System. IEEE Sensors Journal, 2020, 20, 9989-9999.	2.4	9
66	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
67	Classification of Autism in Young Children by Phase Angle Clustering in Magnetoencephalogram Signals. , 2020, , .		8
68	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
69	On robust nonlinear modeling of a complex process with large number of inputs using m-QRcp factorization and C/sub p/ statistic. IEEE Transactions on Systems, Man, and Cybernetics, 1999, 29, 1-12.	5.5	7
70	Investigating Neuromagnetic Brain Responses against Chromatic Flickering Stimuli by Wavelet Entropies. PLoS ONE, 2009, 4, e7173.	1.1	7
71	Interpretation of Heart Sound Signal through Automated Artifact-Free Segmentation. Heart Research - Open Journal, 2015, 2, 25-34.	0.2	7
72	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

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73	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
74	Investigating the Influence of Prior Expectation in Face Pareidolia using Spatial Pattern. Advances in Intelligent Systems and Computing, 2019, , 437-451.	0.5	6
75	Fast succesive selection of variables in linear models using modified QR factorisation. Electronics Letters, 1995, 31, 1204.	0.5	5
76	Speech enhancement by joint statistical characterization in the Log Gabor Wavelet domain. Speech Communication, 2008, 50, 504-518.	1.6	5
77	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
78	Analysis of Heat Transfer and Entropy Generation of TiO2-Water Nanofluid Flow in a Pipe under Transition. Procedia Engineering, 2015, 105, 381-387.	1.2	5
79	Improved i-vector extraction technique for speaker verification with short utterances. International Journal of Speech Technology, 2018, 21, 473-488.	1.4	5
80	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
81	Improving speaker identification via Singular Value Decomposition based Feature Transformer. , 2008, ,		4
82	A Robust Iterative Energy Based Voice Activity Detector. , 2010, , .		4
83	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
84	Optimization of cepstral features for robust lung sound classification. , 2015, , .		4
85	Identification of Coronary Artery Diseased Subjects Using Spectral Featuries. , 2018, , .		4
86	Cross-Corpora Language Recognition: A Preliminary Investigation with Indian Languages. , 2021, , .		4
87	Localized multiple kernel learning using graph modularity. Pattern Recognition Letters, 2022, 155, 27-33.	2.6	4
88	Analysis of Distance Measures for Pre-Quantization before Feature Extraction in Automatic Speaker Recognition. , 2009, , .		3
89	On the use of perceptual Line Spectral Pairs Frequencies for speaker identification. , 2010, , .		3
90	A Discrete Wavelet Packet Transform Based Approach for Selection of Artifact-Free Phonocardiogram Segment. , 2014, , .		3

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91	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
92	Identification of Coronary Artery Disease using Cross Power Spectral Density. , 2017, , .		3
93	Automatic lung sound cycle extraction from single and multichannel acoustic recordings. Biomedical Signal Processing and Control, 2021, 64, 102332.	3.5	3
94	Identification of the Major Language Families of India and Evaluation of their Mutual Influence. Current Science, 2016, 110, 667.	0.4	3
95	An F-Ratio Based Optimization on Noisy Data for Speaker Recognition Application. , 0, , .		2
96	Spectral entropy and spectral shape based pre-quantization forÂreal time speaker identification system. International Journal of Speech Technology, 2010, 13, 189-199.	1.4	2
97	Automatic recognition of major language families in India. , 2012, , .		2
98	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
99	A Machine Learning Approach to Decode Mental States in Bistable Perception. , 2017, , .		2
100	FPGA implementation of an automobile pollution control system using a MEMS accelerometer. , 2006, ,		1
101	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
102	Efficient pre-quantization techniques based on probability density for speaker recognition system. , 2009, , .		1
103	Bayesian marginal statistics for speech enhancement using log Gabor wavelet. International Journal of Speech Technology, 2011, 14, 193-210.	1.4	1
104	A distance metric based outliers detection for robust Automatic Speaker Recognition applications. , 2011, , .		1
105	On the performance of IP and mobile based Automatic Speaker Verification. , 2012, , .		1
106	A system for behavior prediction based on neural signals. Neurocomputing, 2012, 97, 214-222.	3.5	1
107	Smartphone based blood flow feature extraction and classification from Doppler spectrum images. , 2016, , .		1
108	A novel spectrogram based approach towards automatic lung sound cycle extraction. , 2017, , .		1

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109	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
110	Low-Rank Kernelized Graph-based Clustering using Multiple Views. , 2020, , .		1
111	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
112	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
113	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
114	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
115	Knowledge, attitude, and practice of Bangladeshi residents during COVID-19 pandemic. PLOS Global Public Health, 2022, 2, e0000407.	0.5	1
116	Log Gabor Wavelet and Maximum a Posteriori Estimator in Speaker Identification. , 2006, , .		0
117	Relevant subspace selection in Kernel feature space for speech recognition. , 2010, , .		0
118	Diagnosing of the lungs status using morphological anomalies of the signals in transformed domain. , 2012, , .		0
119	Faster BIC segmentation using local speaker modeling. , 2012, , .		0
120	Outlier removal and fusion techniques for robust speaker recognition applications. , 2012, , .		0
121	Neural activity profile for short time memory task. , 2012, , .		Ο
122	Decoding mental states in bistable perception by using source based wavelet features. , 2017, , .		0
123	Texture Features for High-level Classification of Acoustic Scenes. , 2019, , .		0
124	Analytical Solution of Liénard Differential Equation using Homotopy Perturbation Method. GANIT Journal of Bangladesh Mathematical Society, 0, 39, 87-100.	0.3	0
125	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
126	Gaussian Filter Based Data-Driven Cepstral Features for Robust Speaker Verification System. , 2019, , .		0

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#	Article	IF	CITATIONS
127	Kernelized Graph-based Multi-view Clustering on High Dimensional Data. , 2020, , .		Ο
128	COVID-19 Re-infection: A Case Report of a Bangladeshi Doctor. Bangladesh Journal of Medicine, 2021, 32, 58-61.	0.0	0
129	Novel Quality Metric for Duration Variability Compensation in Speaker Verification using i-Vectors. , 2017, , .		Ο
130	Feature Selection for High-Dimensional Data Through Instance Vote Combining. , 2020, , .		0