

Anirban Mukherjee

List of Publications by Year in descending order

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64
papers

881
citations

686830

13
h-index

500791

28
g-index

64
all docs

64
docs citations

64
times ranked

842
citing authors

#	ARTICLE	IF	CITATIONS
1	Automatic Defect Detection on Hot-Rolled Flat Steel Products. IEEE Transactions on Instrumentation and Measurement, 2013, 62, 612-621.	2.4	226
2	Nonparallel plane proximal classifier. Signal Processing, 2009, 89, 510-522.	2.1	110
3	Cancer Classification from Gene Expression Data by NPPC Ensemble. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2011, 8, 659-671.	1.9	72
4	A novel wavelet neural network based pathological stage detection technique for an oral precancerous condition. Journal of Clinical Pathology, 2005, 58, 932-938.	1.0	37
5	Characterization of S ₁ and S ₂ Heart Sounds Using Stacked Autoencoder and Convolutional Neural Network. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 3211-3220.	2.4	35
6	Stroke Point Warping-Based Reference Selection and Verification of Online Signature. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 2-11.	2.4	29
7	Detection of Third Heart Sound Using Variational Mode Decomposition. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 1713-1721.	2.4	29
8	Newton's method for nonparallel plane proximal classifier with unity norm hyperplanes. Signal Processing, 2010, 90, 93-104.	2.1	28
9	Discriminant Analysis for Fast Multiclass Data Classification Through Regularized Kernel Function Approximation. IEEE Transactions on Neural Networks, 2010, 21, 1020-1029.	4.8	27
10	A deep learning approach to fetal-ECG signal reconstruction. , 2016, , .		24
11	Performance analysis of different wavelet feature vectors in quantification of oral precancerous condition. Oral Oncology, 2006, 42, 914-928.	0.8	19
12	Segmentation and detection of first and second heart sounds (S ₁ and S ₂) using variational mode decomposition. , 2016, , .		19
13	A Subspace Projection-Based Joint Sparse Recovery Method for Structured Biomedical Signals. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 234-242.	2.4	17
14	Design and Development of Smartphone-Enabled Spirometer With a Disease Classification System Using Convolutional Neural Network. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 7125-7135.	2.4	17
15	Fourier transform infra-red spectroscopic signatures for lung cells' epithelial mesenchymal transition: A preliminary report. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 173, 809-816.	2.0	15
16	Multicategory cancer classification from gene expression data by multiclass NPPC ensemble. , 2010, , .		13
17	Spectropathology-corroborated multimodal quantitative imaging biomarkers for neuroretinal degeneration in diabetic retinopathy. Clinical Ophthalmology, 2017, Volume 11, 2073-2089.	0.9	12
18	Grading heart sounds through variational mode decomposition and higher order spectral features. , 2018, , .		12

#	ARTICLE	IF	CITATIONS
19	An object-based coding scheme for frontal surface of defective fluted ingot. ISA Transactions, 2006, 45, 1-8.	3.1	10
20	An Antinoise-Folding Algorithm for the Recovery of Biomedical Signals From Noisy Measurements. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 2909-2916.	2.4	10
21	Fourier-transform-infrared-spectroscopy based metabolomic spectral biomarker selection towards optimal diagnostic differentiation of diabetes with and without retinopathy. Spectroscopy Letters, 2018, 51, 340-349.	0.5	10
22	Iris biometrics using deep convolutional networks. , 2018, , .		10
23	A Moreau Envelope-Based Nonlinear Filtering Approach to Denoising Physiological Signals. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 1041-1050.	2.4	9
24	Detection of constituent layers of histological oral sub-mucous fibrosis: Images using the hybrid segmentation algorithm. Oral Oncology, 2008, 44, 1167-1171.	0.8	8
25	Automatic measurement of frontal area and volume of fluted ingots using image-based instrumentation. Measurement: Journal of the International Measurement Confederation, 2003, 33, 325-332.	2.5	6
26	Unity norm twin support vector machine classifier. , 2010, , .		6
27	Gene Expression Data Classification by VVRKFA. Procedia Technology, 2012, 4, 330-335.	1.1	6
28	Autofluorescence signatures for classifying lung cells during epithelial mesenchymal transition. RSC Advances, 2016, 6, 77953-77962.	1.7	6
29	Epithelial mesenchymal transition in lung cancer cells: A quantitative analysis. , 2015, 2015, 5372-5.		5
30	A Robust Estimator-Based Nonlinear Filtering Approach to Piecewise Biosignal Reconstruction. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 362-370.	2.4	5
31	Identification of $S_{\text{ext}\{1\}}$ and $S_{\text{ext}\{2\}}$ Heart Sounds Using Spectral and Convex Hull Features. IEEE Sensors Journal, 2020, 20, 4311-4320.	2.4	5
32	Performance Analysis of Dipole Antenna Based Planar Arrays With Mutual Coupling and Antenna Position Error in mmWave Hybrid System. IEEE Transactions on Vehicular Technology, 2021, 70, 10209-10221.	3.9	5
33	Uplink Channel Estimation With Hardware Imperfections, Antenna Position Error and Channel Correlation for Nested and Linear Array Antennas. IEEE Transactions on Vehicular Technology, 2020, 69, 15412-15426.	3.9	4
34	Detection of Heart Murmurs for Imbalanced Dataset Using Adaptive Synthetic Sampling Approach. , 2019, , .		3
35	A deviation from standard quality approach for characterisation of surface water quality. International Journal of Sustainable Development and Planning, 2017, 12, 30-41.	0.3	3
36	A distortion corrected single camera-based weight estimation technique for industrial objects. ISA Transactions, 2003, 42, 353-360.	3.1	2

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37	Image-based classification of defects in frontal surface of fluted ingot. Measurement: Journal of the International Measurement Confederation, 2007, 40, 687-698.	2.5	2
38	Fast regularized kernel function approximation. , 2008, , .		2
39	A Closed-Loop Control Scheme for Steering Steady States of Glycolysis and Glycogenolysis Pathway. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2013, 10, 858-868.	1.9	2
40	Robustness of TCA Cycle at Steady-State: An LMI-Based Analysis and Synthesis Framework. IEEE Transactions on Nanobioscience, 2013, 12, 128-134.	2.2	2
41	An Optimization-Based Design Framework for Steering Steady States and Improving Robustness of Glycolysis&Glycogenolysis Pathway. IEEE Transactions on Biomedical Engineering, 2013, 60, 554-561.	2.5	2
42	On the Monte-Carlo Expectation Maximization for Finding Motifs in DNA Sequences. IEEE Journal of Biomedical and Health Informatics, 2015, 19, 677-686.	3.9	2
43	Structural Prediction of Dynamic Bayesian Network With Partial Prior Information. IEEE Transactions on Nanobioscience, 2015, 14, 95-103.	2.2	2
44	Noise-assisted trend-filtering of fetal-electrocardiogram signals. , 2016, , .		2
45	Estimation of Speed and Tracking of Vehicles using Radar Duet. , 2019, , .		2
46	A novel shape-based coding-decoding technique for an industrial visual inspection system. ISA Transactions, 2004, 43, 3-12.	3.1	1
47	Statistical modeling of ultrastructural features of murine dermal collagen under chronic low&dose whole body X&irradiation. FEBS Letters, 2007, 581, 5034-5042.	1.3	1
48	Feedback linearization and optimal control-based approach for steering steady-states of nonlinear biochemical networks. , 2012, , .		1
49	Kernel-based feature extraction for patient-adaptive ECG beat classification. , 2016, , .		1
50	An Analog-Front-End for non-invasive fetal electrocardiography monitoring. , 2016, , .		1
51	Compressed sensing of respiratory signals promoting joint-sparsity. , 2016, , .		1
52	Ambulatory fetal heart monitoring with QRS detection employing independent component analysis. , 2017, , .		1
53	Improvement in Localization of a Moving Vehicle using K-means Clustering. , 2020, , .		1
54	Real-Time Heart Murmur Classification using Attention Based Deep Learning Approach. , 2022, , .		1

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55	Unsupervised segmentation of OSF by fusion of RGA and DCT with contextual information. International Journal of Biomedical Engineering and Technology, 2010, 4, 181.	0.2	0
56	UNSUPERVISED SEGMENTATION OF COLLAGEN FIBER DISTRIBUTION IN DIFFERENT STAGES OF OSF. Journal of Biological Systems, 2010, 18, 109-127.	0.5	0
57	Expectation maximization in random projected spaces to find motifs in genomic sequences. , 2014, , .		0
58	A multi-fold string kernel for sequence classification. , 2015, 2015, 6469-72.		0
59	Multimodal characterization of radiologically detectable lung lesions. , 2016, 2016, 1422-1425.		0
60	Tweaking Metabolic Networks: A Design Method. INAE Letters, 2016, 1, 3-8.	1.0	0
61	Design of a feedback control law for steering steady-states of biochemical reaction networks in quasi-polynomial framework âžž The authors gratefully acknowledge the financial support of the Council of Scientific & Industrial Research, India, under the research grant 22(0647)/13/EMR-II.. IFAC-PapersOnLine, 2018, 51, 295-300.	0.5	0
62	Microphone based Smartphone enabled Spirometry Data Augmentation using Information Maximizing Generative Adversarial Network. , 2020, , .		0
63	Downlink Precoding for Hybrid Fully Connected Linear Subarrays in mmWave With Rainfall Scattering and Hardware Impairments. IEEE Transactions on Vehicular Technology, 2022, 71, 5143-5155.	3.9	0
64	Convolutional Neural Network Based Heart Sounds Recognition on Edge Computing Platform. , 2022, , .		0