Tapan K Gandhi

List of Publications by Year
in descending order

55 papers	1,947 citations	567281 15 h-index	361022 35 g-index
55 all docs	55 docs citations	55 times ranked	2207 citing authors

#	Article	IF	Citations
1	Autism as a disorder of prediction. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 15220-15225.	7.1	396
2	A comparative study of wavelet families for EEG signal classification. Neurocomputing, 2011, 74, 3051-3057.	5.9	260
3	Deep transfer learning-based automated detection of COVID-19 from lung CT scan slices. Applied Intelligence, 2021, 51, 571-585.	5.3	253
4	A novel robust diagnostic model to detect seizures in electroencephalography. Expert Systems With Applications, 2016, 56, 116-130.	7.6	162
5	Deep convolutional neural networks with transfer learning for automated brain image classification. Machine Vision and Applications, 2020, 31, 1.	2.7	122
6	Expert model for detection of epileptic activity in EEG signature. Expert Systems With Applications, 2010, 37, 3513-3520.	7.6	118
7	Discrete harmony search based expert model for epileptic seizure detection in electroencephalography. Expert Systems With Applications, 2012, 39, 4055-4062.	7.6	83
8	Automated Brain Image Classification Based on VGG-16 and Transfer Learning. , 2019, , .		81
9	A deep learning approach to measure stress level in plants due to Nitrogen deficiency. Measurement: Journal of the International Measurement Confederation, 2021, 173, 108650.	5.0	51
10	Immediate susceptibility to visual illusions after sight onset. Current Biology, 2015, 25, R358-R359.	3.9	45
11	Machine learning identifies â€œrsfMRI epilepsy networksâ€•in temporal lobe epilepsy. European Radiology, 2019, 29, 3496-3505.	4.5	33
12	Emergence of categorical face perception after extended early-onset blindness. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 6139-6143.	7.1	31
13	Transfer Learning Based Brain Tumor Detection and Segmentation using Superpixel Technique. , 2020, , .		27
14	Automated Diagnosis of COVID-19 Using Deep Features and Parameter Free BAT Optimization. IEEE Journal of Translational Engineering in Health and Medicine, 2021, 9, 1-9.	3.7	23
15	A Quantum-Inspired Self-Supervised Network model for automatic segmentation of brain MR images. Applied Soft Computing Journal, 2020, 93, 106348.	7.2	22
16	Enhanced performance of Dark-Nets for brain tumor classification and segmentation using colormap-based superpixel techniques. Machine Learning With Applications, 2022, 7, 100212.	4.4	22
17	Classification of patients with tumor using MR FLAIR images. Pattern Recognition Letters, 2020, 139, 112-117.	4.2	18
18	Intelligent Monitoring of Stress Induced by Water Deficiency in Plants Using Deep Learning. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-13.	4.7	18

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19	A comparative account of modelling seizure detection system using wavelet techniques. International Journal of Systems Science: Operations and Logistics, 2017, 4, 41-52.	3.0	13
20	Classifier Fusion for Detection of COVID-19 from CT Scans. Circuits, Systems, and Signal Processing, 2022, 41, 3397-3414.	2.0	13
21	Brain Source Localization in Head Harmonics Domain. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	4.7	12
22	Artificial Intelligence in Epilepsy. Neurology India, 2021, 69, 560.	0.4	12
23	Higher limbic and basal ganglia volumes in surviving COVID-negative patients and the relations to fatigue. NeuroImage Reports, 2022, 2, 100095.	1.0	12
24	An Improved Air-Light Estimation Scheme for Single Haze Images Using Color Constancy Prior. IEEE Signal Processing Letters, 2020, 27, 1695-1699.	3.6	11
25	Autonomic and Electrophysiological Evidence for Reduced Auditory Habituation in Autism. Journal of Autism and Developmental Disorders, 2021, 51, 2218-2228.	2.7	11
26	EEG Dipole Source Localization in Hemispherical Harmonics Domain. , 2018, , .		8
27	Selection of optimum frequency bands for detection of epileptiform patterns. Healthcare Technology Letters, 2019, 6, 126-131.	3.3	8
28	Multi-sequential MR brain image classification for tumor detection. Journal of Intelligent and Fuzzy Systems, 2017, 32, 3575-3583.	1.4	7
29	Electrical response-based technique for estimation of degree of moisture saturation in cement concrete and mortar in drying and wetting cycle. Construction and Building Materials, 2020, 262, 120855.	7.2	7
30	Graph Wavelet-Based Multilevel Graph Coarsening and Its Application in Graph-CNN for Alzheimer's Disease Detection. IEEE Access, 2020, 8, 60906-60917.	4.2	7
31	Resilience of temporal processing to early and extended visual deprivation. Vision Research, 2021, 186, 80-86.	1.4	7
32	Performance Evalution of 3D Keypoint Detectors and Descriptors for Plants Health Classification. , 2019, , .		6
33	Head Harmonics Based EEG Dipole Source Localization. , 2019, , .		6
34	Automated Diagnosis of COVID-19 from CT Scans Based on Concatenation of Mobilenetv2 and ResNet50 Features. Communications in Computer and Information Science, 2021, , 149-160.	0.5	6
35	Real-Time Automated Epileptic Seizure Detection by Analyzing Time-Varying High Spatial Frequency Oscillations. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-8.	4.7	6
36	An Advanced Visibility Restoration Technique for Underwater Images. , 2018, , .		5

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37	Tracking the Transitions of Brain States: An Analytical Approach Using EEG. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 1742-1749.	4.9	5
38	Cortical Source Domain Based Motor Imagery and Motor Execution Framework for Enhanced Brain Computer Interface Applications. , 2021, 5, 1-4.		4
39	A Model-based dehazing scheme for unmanned aerial vehicle system using radiance boundary constraint and graph model. Journal of Visual Communication and Image Representation, 2021, 74, 102993.	2.8	3
40	Development of facial expression recognition following extended blindness: The importance of motion. Journal of Vision, 2019, 19, 21a.	0.3	3
41	Indexing facial attractiveness and well beings using machine learning. , 2016, , .		2
42	3D-Printed Sole with Variable Density using Foot Plantar Pressure Measurements. , 2018, , .		2
43	3-D Maximum Likelihood Estimation Sample Consensus for Correspondence Grouping in 3-D Plant Point Cloud. , 2021, 5, 1-4.		2
44	Identifying Gender Specific Interaction Pattern: A Social Network Approach. , 2018, , .		1
45	White-Matter Plasticity Following Sight-Restoration in Congenitally Blind Patients. Journal of Vision, 2019, 19, 277d.	0.3	1
46	Development of Visual Memory Capacity Following Early-Onset and Extended Blindness. Psychological Science, 2022, 33, 847-858.	3.3	1
47	Anatomical harmonics basis based brain source localization with application to epilepsy. Scientific Reports, 2022, 12, .	3.3	1
48	Application of Photoplethysmography for Man- Machine Interface: A Pilot Study. , 2015, , .		0
49	Isolated word speech recognition using larynx vibrations. , 2017, , .		0
50	Predictive modeling for identifying the human brain developmental stages. , 2017, , .		0
51	Non-invasive wireless EEG monitor. , 2017, , .		0
52	Blind navigation using ambient crowd analysis. , 2018, , .		0
53	Impact of CPAP on LF Power, HF Power and LF–HF Ratio in Patients with Severe OSA During Split Night Study. Sleep and Vigilance, 2020, 4, 23-28.	0.8	0
54	Prevalence of foot problems and its related associations in Intellectually Disable (Special Olympic) Indian population. Foot, 2020, 42, 101650.	1.1	0

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55	Vulnerability of facial attractiveness perception to early and multi€year visual deprivation. Developmental Science, 2022, , .	2.4	0