

Aiping Liu

List of Publications by Year in descending order

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53
papers

1,275
citations

394421

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docs citations

53
times ranked

1197
citing authors

#	ARTICLE	IF	CITATIONS
1	The Use of Multivariate EMD and CCA for Denoising Muscle Artifacts From Few-Channel EEG Recordings. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 359-370.	4.7	130
2	Emotion Recognition From Multi-Channel EEG via Deep Forest. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 453-464.	6.3	123
3	ECG-based multi-class arrhythmia detection using spatio-temporal attention-based convolutional recurrent neural network. Artificial Intelligence in Medicine, 2020, 106, 101856.	6.5	99
4	Removing Muscle Artifacts From EEG Data: Multichannel or Single-Channel Techniques?. IEEE Sensors Journal, 2016, 16, 1986-1997.	4.7	97
5	A Preliminary Study of Muscular Artifact Cancellation in Single-Channel EEG. Sensors, 2014, 14, 18370-18389.	3.8	67
6	Removal of Muscle Artifacts From the EEG: A Review and Recommendations. IEEE Sensors Journal, 2019, 19, 5353-5368.	4.7	66
7	A Novel Phonology- and Radical-Coded Chinese Sign Language Recognition Framework Using Accelerometer and Surface Electromyography Sensors. Sensors, 2015, 15, 23303-23324.	3.8	44
8	Simultaneous ocular and muscle artifact removal from EEG data by exploiting diverse statistics. Computers in Biology and Medicine, 2017, 88, 1-10.	7.0	40
9	Approximate Policy-Based Accelerated Deep Reinforcement Learning. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 1820-1830.	11.3	40
10	Toward Open-World Electroencephalogram Decoding Via Deep Learning: A comprehensive survey. IEEE Signal Processing Magazine, 2022, 39, 117-134.	5.6	37
11	Image De-Raining Transformer. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2023, 45, 12978-12995.	13.9	36
12	Position-independent gesture recognition using sEMG signals via canonical correlation analysis. Computers in Biology and Medicine, 2018, 103, 44-54.	7.0	34
13	Dynamic Graph Theoretical Analysis of Functional Connectivity in Parkinson's Disease: The Importance of Fiedler Value. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 1720-1729.	6.3	34
14	Remove Diverse Artifacts Simultaneously From a Single-Channel EEG Based on SSA and ICA: A Semi-Simulated Study. IEEE Access, 2019, 7, 60276-60289.	4.2	30
15	ReMAE: User-Friendly Toolbox for Removing Muscle Artifacts From EEG. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 2105-2119.	4.7	30
16	Galvanic Vestibular Stimulation (GVS) Augments Deficient Pedunculo-pontine Nucleus (PPN) Connectivity in Mild Parkinson's Disease: fMRI Effects of Different Stimuli. Frontiers in Neuroscience, 2018, 12, 101.	2.8	29
17	Pediatric Seizure Prediction in Scalp EEG Using a Multi-Scale Neural Network With Dilated Convolutions. IEEE Journal of Translational Engineering in Health and Medicine, 2022, 10, 1-9.	3.7	27
18	An EEMD-IVA Framework for Concurrent Multidimensional EEG and Unidimensional Kinematic Data Analysis. IEEE Transactions on Biomedical Engineering, 2014, 61, 2187-2198.	4.2	22

#	ARTICLE	IF	CITATIONS
19	Removal of EMG Artifacts from Multichannel EEG Signals Using Combined Singular Spectrum Analysis and Canonical Correlation Analysis. <i>Journal of Healthcare Engineering</i> , 2019, 2019, 1-13.	1.9	22
20	A Sticky Weighted Regression Model for Time-Varying Resting-State Brain Connectivity Estimation. <i>IEEE Transactions on Biomedical Engineering</i> , 2015, 62, 501-510.	4.2	21
21	Decreased subregional specificity of the putamen in Parkinson's Disease revealed by dynamic connectivity-derived parcellation. <i>NeuroImage: Clinical</i> , 2018, 20, 1163-1175.	2.7	20
22	Abnormal Phase Coupling in Parkinson's Disease and Normalization Effects of Subthreshold Vestibular Stimulation. <i>Frontiers in Human Neuroscience</i> , 2019, 13, 118.	2.0	18
23	Effective Pan-Sharpener With Transformer and Invertible Neural Network. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-15.	6.3	18
24	Network analysis of perception-action coupling in infants. <i>Frontiers in Human Neuroscience</i> , 2014, 8, 209.	2.0	16
25	Current perspectives on galvanic vestibular stimulation in the treatment of Parkinson's disease. <i>Expert Review of Neurotherapeutics</i> , 2021, 21, 405-418.	2.8	15
26	A Genetically Informed, Group fMRI Connectivity Modeling Approach: Application to Schizophrenia. <i>IEEE Transactions on Biomedical Engineering</i> , 2014, 61, 946-956.	4.2	12
27	Learning Dual Transformation Networks for Image Contrast Enhancement. <i>IEEE Signal Processing Letters</i> , 2020, 27, 1999-2003.	3.6	12
28	Interpatient ECG Heartbeat Classification with an Adversarial Convolutional Neural Network. <i>Journal of Healthcare Engineering</i> , 2021, 2021, 1-11.	1.9	11
29	Both Stationary and Dynamic Functional Interhemispheric Connectivity Are Strongly Associated With Performance on Cognitive Tests in Multiple Sclerosis. <i>Frontiers in Neurology</i> , 2020, 11, 407.	2.4	9
30	A novel few-channel strategy for removing muscle artifacts from multichannel EEG data. , 2017, , .		8
31	Dual Hypergraph Regularized PCA for Biclustering of Tumor Gene Expression Data. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2019, 31, 2292-2303.	5.7	8
32	A State-Dependent IVA Model for Muscle Artifacts Removal From EEG Recordings. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-13.	4.7	8
33	Semisupervised Seizure Prediction in Scalp EEG Using Consistency Regularization. <i>Journal of Healthcare Engineering</i> , 2022, 2022, 1-10.	1.9	8
34	A Computationally Efficient, Exploratory Approach to Brain Connectivity Incorporating False Discovery Rate Control, A Priori Knowledge, and Group Inference. <i>Computational and Mathematical Methods in Medicine</i> , 2012, 2012, 1-14.	1.3	7
35	Corticomuscular Activity Modeling by Combining Partial Least Squares and Canonical Correlation Analysis. <i>Journal of Applied Mathematics</i> , 2013, 2013, 1-11.	0.9	7
36	Muscle Artifact Removal Toward Mobile SSVEP-Based BCI: A Comparative Study. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-12.	4.7	7

#	ARTICLE	IF	CITATIONS
37	A Combined Static and Dynamic Model for Resting-State Brain Connectivity Networks. IEEE Journal on Selected Topics in Signal Processing, 2016, 10, 1172-1181.	10.8	6
38	Novel Regional Activity Representation With Constrained Canonical Correlation Analysis for Brain Connectivity Network Estimation. IEEE Transactions on Medical Imaging, 2020, 39, 2363-2373.	8.9	6
39	A Multi-Sequence MRI Study in Parkinson's Disease: Association Between Rigidity and Myelin. Journal of Magnetic Resonance Imaging, 2022, 55, 451-462.	3.4	6
40	Striatal Subdivisions Estimated via Deep Embedded Clustering With Application to Parkinson's Disease. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 3564-3575.	6.3	6
41	Connectivity-based parcellation of functional SubROIs in putamen using a sparse spatially regularized regression model. Biomedical Signal Processing and Control, 2016, 27, 174-183.	5.7	5
42	Galvanic Vestibular Stimulation Improves Subnetwork Interactions in Parkinson's Disease. Journal of Healthcare Engineering, 2021, 2021, 1-11.	1.9	5
43	Network modeling and analysis of lumbar muscle surface EMG signals during flexion-extension in individuals with and without low back pain. Journal of Electromyography and Kinesiology, 2011, 21, 913-921.	1.7	4
44	An Invertible Dynamic Graph Convolutional Network for Multi-Center ASD Classification. Frontiers in Neuroscience, 2021, 15, 828512.	2.8	4
45	A novel consistency-based training strategy for seizure prediction. Journal of Neuroscience Methods, 2022, 372, 109557.	2.5	4
46	Image Fusion with Sparse Representation: A Novel Local Contrast-Based Preprocessing Strategy. , 2022, 6, 1-4.		4
47	Galvanic Vestibular Stimulation: Data Analysis and Applications in Neurorehabilitation. IEEE Signal Processing Magazine, 2021, 38, 54-64.	5.6	3
48	A novel SSA-CCA framework for muscle artifact removal from ambulatory EEG. Virtual Reality & Intelligent Hardware, 2022, 4, 1-21.	3.2	3
49	Progressive Pan-Sharpener via Cross-Scale Collaboration Networks. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	3
50	An FDR-controlled, exploratory group modeling for assessing brain connectivity. , 2012, , .		2
51	Unknown Motion Rejection in Myoelectric Pattern Recognition Using Convolutional Prototype Network. IEEE Sensors Journal, 2022, 22, 4305-4314.	4.7	2
52	Time varying brain connectivity modeling using FMRI signals. , 2014, , .		0
53	Joint time invariant and time dependent brain connectivity network estimation. , 2016, , .		0