Haixian Wang

List of Publications by Year
in descending order

74 papers	1,285 citations	430754 18 h-index	395590 33 g-index
76 all docs	76 docs citations	76 times ranked	1314 citing authors

#	Article	IF	Citations
1	Fisher Discriminant Analysis With L1-Norm. IEEE Transactions on Cybernetics, 2014, 44, 828-842.	6.2	177
2	L1-Norm-Based Common Spatial Patterns. IEEE Transactions on Biomedical Engineering, 2012, 59, 653-662.	2.5	129
3	Local Temporal Common Spatial Patterns for Robust Single-Trial EEG Classification. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2008, 16, 131-139.	2.7	83
4	Locality-Preserved Maximum Information Projection. IEEE Transactions on Neural Networks, 2008, 19, 571-585.	4.8	78
5	A Brain-Computer Interface Based on a Few-Channel EEG-fNIRS Bimodal System. IEEE Access, 2017, 5, 208-218.	2.6	57
6	2DPCA with L1-norm for simultaneously robust and sparse modelling. Neural Networks, 2013, 46, 190-198.	3.3	56
7	EEG-based Classification of Lower Limb Motor Imagery with Brain Network Analysis. Neuroscience, 2020, 436, 93-109.	1.1	44
8	Block principal component analysis with L1-norm for image analysis. Pattern Recognition Letters, 2012, 33, 537-542.	2.6	37
9	Regularized common spatial patterns with subject-to-subject transfer of EEG signals. Cognitive Neurodynamics, 2017, 11, 173-181.	2.3	34
10	Identification of functional networks in resting state fMRI data using adaptive sparse representation and affinity propagation clustering. Frontiers in Neuroscience, 2015, 9, 383.	1.4	33
11	Comprehensive Common Spatial Patterns With Temporal Structure Information of EEG Data: Minimizing Nontask Related EEG Component. IEEE Transactions on Biomedical Engineering, 2012, 59, 2496-2505.	2.5	25
12	Regularized Filters for L1-Norm-Based Common Spatial Patterns. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2016, 24, 201-211.	2.7	25
13	A Double-Partial Least-Squares Model for the Detection of Steady-State Visual Evoked Potentials. IEEE Journal of Biomedical and Health Informatics, 2017, 21, 897-903.	3.9	24
14	Collective sparse symmetric non-negative matrix factorization for identifying overlapping communities in resting-state brain functional networks. NeuroImage, 2018, 166, 259-275.	2.1	23
15	Localization of neural efficiency of the mathematically gifted brain through a feature subset selection method. Cognitive Neurodynamics, 2015, 9, 495-508.	2.3	22
16	Training -Free Steady-State Visual Evoked Potential Brain–Computer Interface Based on Filter Bank Canonical Correlation Analysis and Spatiotemporal Beamforming Decoding. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2019, 27, 1714-1723.	2.7	20
17	Neural Activity and Decoding of Action Observation Using Combined EEG and fNIRS Measurement. Frontiers in Human Neuroscience, 2019, 13, 357.	1.0	20
18	An efficient algorithm for generalized discriminant analysis using incomplete Cholesky decomposition. Pattern Recognition Letters, 2007, 28, 254-259.	2.6	18

#	Article	IF	Citations
19	Multiclass Filters by a Weighted Pairwise Criterion for EEG Single-Trial Classification. IEEE Transactions on Biomedical Engineering, 2011, 58, 1412-1420.	2.5	18
20	A Supervoxel-Based Method for Groupwise Whole Brain Parcellation with Resting-State fMRI Data. Frontiers in Human Neuroscience, 2016, 10, 659.	1.0	18
21	Robust common spatial patterns with sparsity. Biomedical Signal Processing and Control, 2016, 26, 52-57.	3.5	18
22	SSVEP-Based Brain-Computer Interface With a Limited Number of Frequencies Based on Dual-Frequency Biased Coding. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2021, 29, 760-769.	2.7	18
23	Neurocognitive mechanisms of mathematical giftedness: A literature review. Applied Neuropsychology: Child, 2017, 6, 79-94.	0.7	17
24	Consistency and dynamical changes of directional information flow in different brain states: A comparison of working memory and resting-state using EEG. NeuroImage, 2019, 203, 116188.	2.1	16
25	Probabilistic two-dimensional principal component analysis and its mixture model for face recognition. Neural Computing and Applications, 2008, 17, 541-547.	3.2	14
26	Harmonic Mean of Kullback–Leibler Divergences for Optimizing Multi-Class EEG Spatio-Temporal Filters. Neural Processing Letters, 2012, 36, 161-171.	2.0	14
27	Local discriminative spatial patterns for movement-related potentials-based EEG classification. Biomedical Signal Processing and Control, 2011, 6, 427-431.	3.5	13
28	Structured sparse linear graph embedding. Neural Networks, 2012, 27, 38-44.	3.3	13
29	Local temporal common spatial patterns modulated with phase locking value. Biomedical Signal Processing and Control, 2020, 59, 101882.	3.5	12
30	Temporally Local Maximum Signal Fraction Analysis for Artifact Removal From Biomedical Signals. IEEE Transactions on Signal Processing, 2010, 58, 4919-4925.	3.2	11
31	Optimizing spatial filters for single-trial EEG classification via a discriminant extension to CSP: the Fisher criterion. Medical and Biological Engineering and Computing, 2011, 49, 997-1001.	1.6	11
32	L1-norm based discriminative spatial pattern for single-trial EEG classification. Biomedical Signal Processing and Control, 2014, 10, 313-321.	3.5	11
33	Spatiotemporal Phase Synchronization in Adaptive Reconfiguration from Action Observation Network to Mentalizing Network for Understanding Other's Action Intention. Brain Topography, 2018, 31, 447-467.	0.8	11
34	Action understanding based on a combination of one-versus-rest and one-versus-one multi-classification methods. , 2017, , .		10
35	On EM Estimation for Mixture of Multivariate t-Distributions. Neural Processing Letters, 2009, 30, 243-256.	2.0	9
36	Optimized Gamma Synchronization Enhances Functional Binding of Fronto-Parietal Cortices in Mathematically Gifted Adolescents during Deductive Reasoning. Frontiers in Human Neuroscience, 2014, 8, 430.	1.0	9

#	Article	IF	Citations
37	Locally principal component analysis based on L1â€norm maximisation. IET Image Processing, 2015, 9, 91-96.	1.4	9
38	Weighted Brain Network Metrics for Decoding Action Intention Understanding Based on EEG. Frontiers in Human Neuroscience, 2020, 14, 232.	1.0	9
39	A novel index of functional connectivity: phase lag based on Wilcoxon signed rank test. Cognitive Neurodynamics, 2021, 15, 621-636.	2.3	9
40	Euler common spatial patterns for EEG classification. Medical and Biological Engineering and Computing, 2022, 60, 753-767.	1.6	9
41	EEG sourceâ€space synchrostate transitions and Markov modeling in the mathâ€gifted brain during a longâ€chain reasoning task. Human Brain Mapping, 2020, 41, 3620-3636.	1.9	8
42	Classifying action intention understanding EEG signals based on weighted brain network metric features. Biomedical Signal Processing and Control, 2020, 59, 101893.	3.5	8
43	Differential recruitment of brain networks in single-digit addition and multiplication: Evidence from EEG oscillations in theta and lower alpha bands. International Journal of Psychophysiology, 2018, 128, 81-92.	0.5	7
44	Reconfiguration of Brain Network Dynamics in Autism Spectrum Disorder Based on Hidden Markov Model. Frontiers in Human Neuroscience, 2022, 16, 774921.	1.0	7
45	Structural two-dimensional principal component analysis for image recognition. Machine Vision and Applications, 2011, 22, 433-438.	1.7	6
46	Discriminant and adaptive extensions to local temporal common spatial patterns. Pattern Recognition Letters, 2013, 34, 1125-1129.	2.6	6
47	Correntropy induced metric based common spatial patterns. , 2017, , .		6
48	Biomarkers Derived from Alterations in Overlapping Community Structure of Resting-state Brain Functional Networks for Detecting Alzheimerâ€™s Disease. Neuroscience, 2022, 484, 38-52.	1.1	6
49	Smooth Spatial Filter for Common Spatial Patterns. Lecture Notes in Computer Science, 2013, , 315-322.	1.0	5
50	Robust sparsity-preserved learning with application to image visualization. Knowledge and Information Systems, 2014, 39, 287-304.	2.1	5
51	Local Temporal Joint Recurrence Common Spatial Patterns for MI-based BCI. , 2020, , .		4
52	Common Spatial Pattern with L21-Norm. Neural Processing Letters, 2021, 53, 3619-3638.	2.0	4
53	Robust maximum signal fraction analysis for blind source separation. IET Signal Processing, 2017, 11, 969-974.	0.9	3
54	Generalization of Local Temporal Correlation Common Spatial Patterns Using Lp-norm (0Â<ÂpÂ<Â2). Lecture Notes in Computer Science, 2017, , 769-777.	1.0	3

#	Article	IF	Citations
55	High Resolution Radon Transform and its Applications in Multiple Suppression of Seismic Data in Deep-Sea. , 2009, , .		2
56	Semi‐supervised classification of facial expression using a mixture of multivariate <i>t</i> distributions. Expert Systems, 2011, 28, 19-32.	2.9	2
57	One class support vector machine based filter for improving the classification accuracy of SSVEP BCI. , 2017, , .		2
58	A Hybrid EEG-fNIRS Brain-Computer Interface Based on Dynamic Functional Connectivity and Long Short-Term Memory. , 2021, , .		2
59	L21-Norm-Based Common Spatial Pattern with Regularized Filters. , 2021, , .		2
60	Identifying Intrinsic Phase Lag in EEG Signals from the Perspective of Wilcoxon Signed-Rank Test. Lecture Notes in Computer Science, 2017, , 709-717.	1.0	2
61	EEG-Based Cortical Localization of Neural Efficiency Related to Mathematical Giftedness. Lecture Notes in Computer Science, 2013, , 25-32.	1.0	2
62	Action Intention Understanding EEG Signal Classification Based on Improved Discriminative Spatial Patterns. Computational Intelligence and Neuroscience, 2021, 2021, 1-8.	1.1	2
63	Application of Phase Space Reconstruction in a Few-Channel EEG-NIRS Bimodal Brain-Computer Interface System. , 2017, , .		1
64	Directed Connectivity Analysis of the Brain Network in Mathematically Gifted Adolescents. Computational Intelligence and Neuroscience, 2020, 2020, 1-10.	1.1	1
65	Analysing Effective Connectivity of the Math-gifted Brain with Nonlinear Granger Causality. , 2021, , .		1
66	Investigating Effective Brain Networks of Action Observation Tasks from Different Visual Perspectives based on Generalized Partial Directed Coherence: An fMRI Study. , 2021, , .		1
67	Power Spectral Density Features for Classifying Action Intention Understanding EEG Signals. , 2022, , .		1
68	Evaluating the Feasibility of a Novel Approach for SSVEP Detection Accuracy Improvement Using Phase Shifts. , 2016, , .		0
69	The Sinusoidal Assisted MEMD based CCA Method for SSVEP based BCI Improvement. , 2018, , .		0
70	Two-directional discriminative spatial patterns for movement-related EEG classification. , 2021, , .		0
71	Multilinear Discriminative Spatial Patterns for Movement-Related Cortical Potential Based on EEG Classification with Tensor Representation. Computational Intelligence and Neuroscience, 2021, 2021, 1-9.	1.1	0
72	Single-Trial EEG Classification via Common Spatial Patterns with Mixed Lp- and Lq-Norms. Mathematical Problems in Engineering, 2021, 2021, 1-13.	0.6	0

#	Article	IF	Citations
73	Phase Synchronization Indices for Classification of Action Intention Understanding Based on EEG Signals. Lecture Notes in Computer Science, 2020, , 110-121.	1.0	0
74	Multi-class classification of action intention understanding brain signals based on thresholding graph metric. Journal of Intelligent and Fuzzy Systems, 2022, 42, 3393-3403.	0.8	0