

Haixian Wang

List of Publications by Year in descending order

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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	Euler common spatial patterns for EEG classification. Medical and Biological Engineering and Computing, 2022, 60, 753-767.	1.6	9
2	Biomarkers Derived from Alterations in Overlapping Community Structure of Resting-state Brain Functional Networks for Detecting Alzheimer's Disease. Neuroscience, 2022, 484, 38-52.	1.1	6
3	Reconfiguration of Brain Network Dynamics in Autism Spectrum Disorder Based on Hidden Markov Model. Frontiers in Human Neuroscience, 2022, 16, 774921.	1.0	7
4	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
5	Power Spectral Density Features for Classifying Action Intention Understanding EEG Signals. , 2022, , .		1
6	A novel index of functional connectivity: phase lag based on Wilcoxon signed rank test. Cognitive Neurodynamics, 2021, 15, 621-636.	2.3	9
7	A Hybrid EEG-fNIRS Brain-Computer Interface Based on Dynamic Functional Connectivity and Long Short-Term Memory. , 2021, , .		2
8	Two-directional discriminative spatial patterns for movement-related EEG classification. , 2021, , .		0
9	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
10	Common Spatial Pattern with L21-Norm. Neural Processing Letters, 2021, 53, 3619-3638.	2.0	4
11	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
12	Analysing Effective Connectivity of the Math-gifted Brain with Nonlinear Granger Causality. , 2021, , .		1
13	L21-Norm-Based Common Spatial Pattern with Regularized Filters. , 2021, , .		2
14	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
15	Investigating Effective Brain Networks of Action Observation Tasks from Different Visual Perspectives based on Generalized Partial Directed Coherence: An fMRI Study. , 2021, , .		1
16	Action Intention Understanding EEG Signal Classification Based on Improved Discriminative Spatial Patterns. Computational Intelligence and Neuroscience, 2021, 2021, 1-8.	1.1	2
17	Directed Connectivity Analysis of the Brain Network in Mathematically Gifted Adolescents. Computational Intelligence and Neuroscience, 2020, 2020, 1-10.	1.1	1
18	Local Temporal Joint Recurrence Common Spatial Patterns for MI-based BCI. , 2020, , .		4

#	ARTICLE	IF	CITATIONS
19	EEG source-space synchrony transitions and Markov modeling in the mathematically gifted brain during a long-chain reasoning task. <i>Human Brain Mapping</i> , 2020, 41, 3620-3636.	1.9	8
20	Classifying action intention understanding EEG signals based on weighted brain network metric features. <i>Biomedical Signal Processing and Control</i> , 2020, 59, 101893.	3.5	8
21	Weighted Brain Network Metrics for Decoding Action Intention Understanding Based on EEG. <i>Frontiers in Human Neuroscience</i> , 2020, 14, 232.	1.0	9
22	Local temporal common spatial patterns modulated with phase locking value. <i>Biomedical Signal Processing and Control</i> , 2020, 59, 101882.	3.5	12
23	EEG-based Classification of Lower Limb Motor Imagery with Brain Network Analysis. <i>Neuroscience</i> , 2020, 436, 93-109.	1.1	44
24	Phase Synchronization Indices for Classification of Action Intention Understanding Based on EEG Signals. <i>Lecture Notes in Computer Science</i> , 2020, , 110-121.	1.0	0
25	Training-Free Steady-State Visual Evoked Potential Brain-Computer Interface Based on Filter Bank Canonical Correlation Analysis and Spatiotemporal Beamforming Decoding. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2019, 27, 1714-1723.	2.7	20
26	Neural Activity and Decoding of Action Observation Using Combined EEG and fNIRS Measurement. <i>Frontiers in Human Neuroscience</i> , 2019, 13, 357.	1.0	20
27	Consistency and dynamical changes of directional information flow in different brain states: A comparison of working memory and resting-state using EEG. <i>NeuroImage</i> , 2019, 203, 116188.	2.1	16
28	Differential recruitment of brain networks in single-digit addition and multiplication: Evidence from EEG oscillations in theta and lower alpha bands. <i>International Journal of Psychophysiology</i> , 2018, 128, 81-92.	0.5	7
29	Spatiotemporal Phase Synchronization in Adaptive Reconfiguration from Action Observation Network to Mentalizing Network for Understanding Other's Action Intention. <i>Brain Topography</i> , 2018, 31, 447-467.	0.8	11
30	Collective sparse symmetric non-negative matrix factorization for identifying overlapping communities in resting-state brain functional networks. <i>NeuroImage</i> , 2018, 166, 259-275.	2.1	23
31	The Sinusoidal Assisted MEMD based CCA Method for SSVEP based BCI Improvement. , 2018, , .		0
32	Neurocognitive mechanisms of mathematical giftedness: A literature review. <i>Applied Neuropsychology: Child</i> , 2017, 6, 79-94.	0.7	17
33	A Double-Partial Least-Squares Model for the Detection of Steady-State Visual Evoked Potentials. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2017, 21, 897-903.	3.9	24
34	A Brain-Computer Interface Based on a Few-Channel EEG-fNIRS Bimodal System. <i>IEEE Access</i> , 2017, 5, 208-218.	2.6	57
35	Robust maximum signal fraction analysis for blind source separation. <i>IET Signal Processing</i> , 2017, 11, 969-974.	0.9	3
36	Regularized common spatial patterns with subject-to-subject transfer of EEG signals. <i>Cognitive Neurodynamics</i> , 2017, 11, 173-181.	2.3	34

#	ARTICLE	IF	CITATIONS
37	Action understanding based on a combination of one-versus-rest and one-versus-one multi-classification methods. , 2017, , .		10
38	One class support vector machine based filter for improving the classification accuracy of SSVEP BCI. , 2017, , .		2
39	Application of Phase Space Reconstruction in a Few-Channel EEG-NIRS Bimodal Brain-Computer Interface System. , 2017, , .		1
40	Correntropy induced metric based common spatial patterns. , 2017, , .		6
41	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
42	Generalization of Local Temporal Correlation Common Spatial Patterns Using Lp-norm ($0 < p < 2$). Lecture Notes in Computer Science, 2017, , 769-777.	1.0	3
43	A Supervoxel-Based Method for Groupwise Whole Brain Parcellation with Resting-State fMRI Data. Frontiers in Human Neuroscience, 2016, 10, 659.	1.0	18
44	Evaluating the Feasibility of a Novel Approach for SSVEP Detection Accuracy Improvement Using Phase Shifts. , 2016, , .		0
45	Robust common spatial patterns with sparsity. Biomedical Signal Processing and Control, 2016, 26, 52-57.	3.5	18
46	Regularized Filters for L1-Norm-Based Common Spatial Patterns. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2016, 24, 201-211.	2.7	25
47	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
48	Localization of neural efficiency of the mathematically gifted brain through a feature subset selection method. Cognitive Neurodynamics, 2015, 9, 495-508.	2.3	22
49	Locally principal component analysis based on L1-norm maximisation. IET Image Processing, 2015, 9, 91-96.	1.4	9
50	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
51	Robust sparsity-preserved learning with application to image visualization. Knowledge and Information Systems, 2014, 39, 287-304.	2.1	5
52	Fisher Discriminant Analysis With L1-Norm. IEEE Transactions on Cybernetics, 2014, 44, 828-842.	6.2	177
53	L1-norm based discriminative spatial pattern for single-trial EEG classification. Biomedical Signal Processing and Control, 2014, 10, 313-321.	3.5	11
54	2DPCA with L1-norm for simultaneously robust and sparse modelling. Neural Networks, 2013, 46, 190-198.	3.3	56

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55	Discriminant and adaptive extensions to local temporal common spatial patterns. Pattern Recognition Letters, 2013, 34, 1125-1129.	2.6	6
56	Smooth Spatial Filter for Common Spatial Patterns. Lecture Notes in Computer Science, 2013, , 315-322.	1.0	5
57	EEG-Based Cortical Localization of Neural Efficiency Related to Mathematical Giftedness. Lecture Notes in Computer Science, 2013, , 25-32.	1.0	2
58	Harmonic Mean of Kullback-Leibler Divergences for Optimizing Multi-Class EEG Spatio-Temporal Filters. Neural Processing Letters, 2012, 36, 161-171.	2.0	14
59	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
60	Structured sparse linear graph embedding. Neural Networks, 2012, 27, 38-44.	3.3	13
61	Block principal component analysis with L1-norm for image analysis. Pattern Recognition Letters, 2012, 33, 537-542.	2.6	37
62	L1-Norm-Based Common Spatial Patterns. IEEE Transactions on Biomedical Engineering, 2012, 59, 653-662.	2.5	129
63	Semi-supervised classification of facial expression using a mixture of multivariate t -distributions. Expert Systems, 2011, 28, 19-32.	2.9	2
64	Multiclass Filters by a Weighted Pairwise Criterion for EEG Single-Trial Classification. IEEE Transactions on Biomedical Engineering, 2011, 58, 1412-1420.	2.5	18
65	Local discriminative spatial patterns for movement-related potentials-based EEG classification. Biomedical Signal Processing and Control, 2011, 6, 427-431.	3.5	13
66	Structural two-dimensional principal component analysis for image recognition. Machine Vision and Applications, 2011, 22, 433-438.	1.7	6
67	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
68	Temporally Local Maximum Signal Fraction Analysis for Artifact Removal From Biomedical Signals. IEEE Transactions on Signal Processing, 2010, 58, 4919-4925.	3.2	11
69	High Resolution Radon Transform and its Applications in Multiple Suppression of Seismic Data in Deep-Sea. , 2009, , .		2
70	On EM Estimation for Mixture of Multivariate t -Distributions. Neural Processing Letters, 2009, 30, 243-256.	2.0	9
71	Probabilistic two-dimensional principal component analysis and its mixture model for face recognition. Neural Computing and Applications, 2008, 17, 541-547.	3.2	14
72	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

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73	Locality-Preserved Maximum Information Projection. IEEE Transactions on Neural Networks, 2008, 19, 571-585.	4.8	78
74	An efficient algorithm for generalized discriminant analysis using incomplete Cholesky decomposition. Pattern Recognition Letters, 2007, 28, 254-259.	2.6	18