

# Unmixing fMRI with independent component analysis

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Functional Classification of Schizophrenia Using Feed Forward Neural Networks. , 2006, Suppl, 6631-4.		33
2	Spatiotemporal Independent Component Analysis for Retinal Images. , 2006, , .		0
3	Selective changes of resting-state networks in individuals at risk for Alzheimer's disease. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 18760-18765.	3.3	957
4	A Feature-Selective Independent Component Analysis Method for Functional MRI. International Journal of Biomedical Imaging, 2007, 2007, 1-12.	3.0	13
5	A MAXIMAL-CORRELATION APPROACH USING ICA FOR TESTING FUNCTIONAL NETWORK CONNECTIVITY APPLIED TO SCHIZOPHRENIA. , 2007, , .		2
6	A novel approach to analyzing fMRI and SNP data via parallel independent component analysis. , 2007, 6511, 322.		4
7	Independent component analysis for the detection of in-vivo intrinsic signals from an optical imager of retinal function. , 2007, , .		1
8	Spatiotemporal Independent Component Analysis for the Detection of Functional Responses in Cat Retinal Images. IEEE Transactions on Medical Imaging, 2007, 26, 1035-1045.	5.4	11
9	An adaptive smoothing technique for random noise suppression in fMRI data. , 2007, , .		2
10	An Efficient Hybrid Wavelet-ICA algorithm for Analyzing Simulated fMRI Data in Noisy Environment. , 2007, , .		2
11	Complex ICA of Brain Imaging Data [Life Sciences]. IEEE Signal Processing Magazine, 2007, 24, 136-139.	4.6	48
12	Interparticipant correlations: A model free FMRI analysis technique. Human Brain Mapping, 2007, 28, 860-867.	1.9	35
13	A fast algorithm for one-unit ICA-R. Information Sciences, 2007, 177, 1265-1275.	4.0	70
14	Multimodal and Multi-Tissue Measures of Connectivity Revealed by Joint Independent Component Analysis. IEEE Journal on Selected Topics in Signal Processing, 2008, 2, 986-997.	7.3	39
15	On the Performance of Autocorrelation Estimation Algorithms for fMRI Analysis. IEEE Journal on Selected Topics in Signal Processing, 2008, 2, 828-838.	7.3	49
16	On Extending the Complex FastICA Algorithm to Noncircular Sources. IEEE Transactions on Signal Processing, 2008, 56, 2148-2154.	3.2	113
17	Complex ICA by Negentropy Maximization. IEEE Transactions on Neural Networks, 2008, 19, 596-609.	4.8	124
18	A Hierarchical Markov Random Field Model for Bayesian Blind Image Separation. , 2008, , .		2

#	ARTICLE	IF	CITATIONS
19	Tracing the ventral stream for auditory speech processing in the temporal lobe by using a combined time series and independent component analysis. <i>Neuroscience Letters</i> , 2008, 442, 180-185.	1.0	14
20	Unmixing concurrent EEG-fMRI with parallel independent component analysis. <i>International Journal of Psychophysiology</i> , 2008, 67, 222-234.	0.5	100
21	Joint independent component analysis for simultaneous EEG-fMRI: Principle and simulation. <i>International Journal of Psychophysiology</i> , 2008, 67, 212-221.	0.5	117
22	A method for multi-group inter-participant correlation: Abnormal synchrony in patients with schizophrenia during auditory target detection. <i>NeuroImage</i> , 2008, 39, 1129-1141.	2.1	12
23	A method for functional network connectivity among spatially independent resting-state components in schizophrenia. <i>NeuroImage</i> , 2008, 39, 1666-1681.	2.1	861
24	Discriminating brain activity from task-related artifacts in functional MRI: Fractal scaling analysis simulation and application. <i>NeuroImage</i> , 2008, 40, 197-212.	2.1	16
25	A unified framework for group independent component analysis for multi-subject fMRI data. <i>NeuroImage</i> , 2008, 42, 1078-1093.	2.1	180
26	Hybrid ICA-Bayesian network approach reveals distinct effective connectivity differences in schizophrenia. <i>NeuroImage</i> , 2008, 42, 1560-1568.	2.1	44
27	Blind Separation of Intermolecular Zero Coherence Signals in Nuclear Magnetic Resonance. , 2008, , .		0
28	Independent Component Analysis for Vision-inspired Classification of Retinal Images with Age-related Macular Degeneration. , 2008, , .		8
29	Identification of Brain Image Biomarkers by Optimized Selection of Multimodal Independent Components. , 2008, , .		0
30	Prediction of human errors by maladaptive changes in event-related brain networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 6173-6178.	3.3	415
31	Integration of gene expression and gene copy number variations with independent component analysis. , 2008, 2008, 5700-3.		3
32	Extracting principle components for discriminant analysis of FMRI images. <i>Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing</i> , 2008, 2008, 449-452.	1.8	10
33	On quantifying the effects of noncircularity on the complex fastica algorithm. <i>Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing</i> , 2008, , .	1.8	0
34	Independent component analysis of functional MRI data. , 2008, , .		4
35	Group learning using contrast NMF : Application to functional and structural MRI of schizophrenia. , 2008, , .		12
36	Simultaneous EEG-fMRI Analysis with Application to Detection of Seizure Signal Sources. , 2009, , .		4

#	ARTICLE	IF	CITATIONS
37	Using complex-valued ICA to efficiently combine radar polarimetric data for target detection. , 2009, , .		3
38	Functional Connectivity of the Macaque Brain across Stimulus and Arousal States. Journal of Neuroscience, 2009, 29, 5897-5909.	1.7	65
40	Feature-Based Fusion of Medical Imaging Data. IEEE Transactions on Information Technology in Biomedicine, 2009, 13, 711-720.	3.6	187
41	Combining fMRI and SNP data to investigate connections between brain function and genetics using parallel ICA. Human Brain Mapping, 2009, 30, 241-255.	1.9	237
42	Interrater and intermethod reliability of default mode network selection. Human Brain Mapping, 2009, 30, 2293-2303.	1.9	113
43	Blind identification of evoked human brain activity with independent component analysis of optical data. Human Brain Mapping, 2009, 30, 2382-2392.	1.9	24
44	A method for accurate group difference detection by constraining the mixing coefficients in an ICA framework. Human Brain Mapping, 2009, 30, 2953-2970.	1.9	47
45	Unbiased group-level statistical assessment of independent component maps by means of automated retrospective matching. Human Brain Mapping, 2010, 31, 727-742.	1.9	11
46	Semiblind spatial ICA of fMRI using spatial constraints. Human Brain Mapping, 2010, 31, 1076-1088.	1.9	146
47	Assessment of 3D DCE-MRI of the kidneys using non-rigid image registration and segmentation of voxel time courses. Computerized Medical Imaging and Graphics, 2009, 33, 171-181.	3.5	104
48	Denosing functional magnetic resonance imaging time-series using anisotropic spatial averaging. Biomedical Signal Processing and Control, 2009, 4, 16-25.	3.5	14
49	Changes of resting state brain networks in amyotrophic lateral sclerosis. Experimental Neurology, 2009, 217, 147-153.	2.0	197
50	Mining EEG&fMRI using independent component analysis. International Journal of Psychophysiology, 2009, 73, 53-61.	0.5	84
51	A review of group ICA for fMRI data and ICA for joint inference of imaging, genetic, and ERP data. NeuroImage, 2009, 45, S163-S172.	2.1	924
52	Blind source separation of fMRI data by means of factor analytic transformations. NeuroImage, 2009, 47, 77-87.	2.1	15
53	Source-based morphometry: The use of independent component analysis to identify gray matter differences with application to schizophrenia. Human Brain Mapping, 2009, 30, 711-724.	1.9	311
54	The effects of the glutamate antagonist memantine on brain activation to an auditory perception task. Human Brain Mapping, 2009, 30, 3616-3624.	1.9	20
55	Independent Component Analysis of Real Data. , 2009, , .		9

#	ARTICLE	IF	CITATIONS
56	Group ICA of resting-state data: a comparison. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2010, 23, 317-325.	1.1	41
57	Automatic Bayesian Classification of Healthy Controls, Bipolar Disorder, and Schizophrenia Using Intrinsic Connectivity Maps From fMRI Data. <i>IEEE Transactions on Biomedical Engineering</i> , 2010, 57, 2850-2860.	2.5	80
58	A lattice computing approach for on-line fMRI analysis. <i>Image and Vision Computing</i> , 2010, 28, 1155-1161.	2.7	25
59	Disruptions in Functional Network Connectivity During Alcohol Intoxicated Driving. <i>Alcoholism: Clinical and Experimental Research</i> , 2010, 34, 479-487.	1.4	30
60	Resting-state functional connectivity differences in premature children. <i>Frontiers in Systems Neuroscience</i> , 2010, 4, .	1.2	75
61	Adolescent resting state networks and their associations to schizotypal trait expression. <i>Frontiers in Systems Neuroscience</i> , 2010, 4, .	1.2	36
62	Independent subspace analysis with prior information for fMRI data. , 2010, , .		13
63	Phase correction and denoising for ICA of complex FMRI data. , 2010, , .		4
64	fMRI data analysis by blind source separation algorithms: A comparison study for nongaussian properties. , 2010, , .		1
65	Reactivity of hemodynamic responses and functional connectivity to different states of alpha synchrony: A concurrent EEG-fMRI study. <i>NeuroImage</i> , 2010, 52, 1252-1260.	2.1	113
66	Dynamic Granger causality based on Kalman filter for evaluation of functional network connectivity in fMRI data. <i>NeuroImage</i> , 2010, 53, 65-77.	2.1	94
67	Canonical Correlation Analysis for Data Fusion and Group Inferences. <i>IEEE Signal Processing Magazine</i> , 2010, 27, 39-50.	4.6	217
68	Flexible complex ICA of fMRI data. , 2010, , .		6
69	Anomalous neural circuit function in schizophrenia during a virtual Morris water task. <i>NeuroImage</i> , 2010, 49, 3373-3384.	2.1	65
70	A parallel framework for simultaneous EEG/fMRI analysis: Methodology and simulation. <i>NeuroImage</i> , 2010, 52, 1123-1134.	2.1	50
71	Spatio-temporal localization of focal epileptic sources from intracranial electrocortical recordings using an independent component analysis (ICA) algorithm. , 2010, , .		0
72	Comparison of canonical correlation analysis and ICA techniques for fMRI. , 2010, , .		2
73	Data-driven analysis of functional MRI time-series using a region-growing approach. , 2011, , .		1

#	ARTICLE	IF	CITATIONS
74	Hierarchical and graphical analysis of fMRI network connectivity in healthy and schizophrenic groups. , 2011, , .		6
75	Spatio-temporal models of mental processes from fMRI. NeuroImage, 2011, 57, 362-377.	2.1	20
76	Basal functional connectivity within the anterior temporal network is associated with performance on declarative memory tasks. NeuroImage, 2011, 58, 687-697.	2.1	80
77	Functional and Effective Connectivity: A Review. Brain Connectivity, 2011, 1, 13-36.	0.8	2,633
78	Amygdala Functional Connectivity Predicts Pharmacotherapy Outcome in Pediatric Bipolar Disorder. Brain Connectivity, 2011, 1, 411-422.	0.8	40
79	Multimodal Functional Network Connectivity: An EEG-fMRI Fusion in Network Space. PLoS ONE, 2011, 6, e24642.	1.1	48
80	Quality Map Thresholding for De-noising of Complex-Valued fMRI Data and Its Application to ICA of fMRI. Journal of Signal Processing Systems, 2011, 65, 497-508.	1.4	17
81	Identifying distributed and overlapping clusters of hemodynamic synchrony in fMRI data sets. Pattern Analysis and Applications, 2011, 14, 175-192.	3.1	1
82	Detection and characterization of single-trial fMRI bold responses: Paradigm free mapping. Human Brain Mapping, 2011, 32, 1400-1418.	1.9	49
83	Lattice independent component analysis for functional magnetic resonance imaging. Information Sciences, 2011, 181, 1910-1928.	4.0	33
84	A conditional Granger causality model approach for group analysis in functional magnetic resonance imaging. Magnetic Resonance Imaging, 2011, 29, 418-433.	1.0	33
85	Independent component analysis using prior information for signal detection in a functional imaging system of the retina. Medical Image Analysis, 2011, 15, 35-44.	7.0	12
86	Spatially constrained ICA algorithm with an application in EEG processing. Signal Processing, 2011, 91, 1963-1972.	2.1	54
87	EEGIFT: Group Independent Component Analysis for Event-Related EEG Data. Computational Intelligence and Neuroscience, 2011, 2011, 1-9.	1.1	81
88	Order detection for fMRI analysis: Joint estimation of downsampling depth and order by information theoretic criteria. , 2011, , .		11
89	Automatic Identification of Functional Clusters in fMRI Data Using Spatial Dependence. IEEE Transactions on Biomedical Engineering, 2011, 58, 3406-3417.	2.5	114
90	Integrated Analysis of Gene Expression and Gene Copy Number for Gene Shaving Based on ICA Approach. , 2011, , .		1
91	CUDAICA: GPU Optimization of Infomax-ICA EEG Analysis. Computational Intelligence and Neuroscience, 2012, 2012, 1-8.	1.1	52

#	ARTICLE	IF	CITATIONS
92	Comparison of independent component analysis algorithms for EEG-fMRI data fusion. , 2012, , .		1
93	Computational cardiology: how computer simulations could be used to develop new therapies and advance existing ones. <i>Europace</i> , 2012, 14, v82-v89.	0.7	36
94	Semantic Network Disconnection in Formal Thought Disorder. <i>Neuropsychobiology</i> , 2012, 66, 14-23.	0.9	41
95	Fully automated initiation of simulated episodes of atrial arrhythmias. <i>Europace</i> , 2012, 14, v17-v24.	0.7	15
96	Correntropy coefficient analysis of fMRI using reference model. , 2012, , .		0
97	Complex-valued analysis and visualization of fMRI data for event-related and block-design paradigms. , 2012, , .		0
98	Modulation of large-scale brain networks by transcranial direct current stimulation evidenced by resting-state functional MRI. <i>Brain Stimulation</i> , 2012, 5, 252-263.	0.7	261
99	Iterative approach of dual regression with a sparse prior enhances the performance of independent component analysis for group functional magnetic resonance imaging (fMRI) data. <i>NeuroImage</i> , 2012, 63, 1864-1889.	2.1	21
100	Assessing brain connectivity at rest is clinically relevant in early multiple sclerosis. <i>Multiple Sclerosis Journal</i> , 2012, 18, 1251-1258.	1.4	133
101	Perspectives for Multimodal Neurochemical and Imaging Biomarkers in Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2012, 33, S329-S347.	1.2	21
102	An ICA with reference approach in identification of genetic variation and associated brain networks. <i>Frontiers in Human Neuroscience</i> , 2012, 6, 21.	1.0	27
103	High Classification Accuracy for Schizophrenia with Rest and Task fMRI Data. <i>Frontiers in Human Neuroscience</i> , 2012, 6, 145.	1.0	100
104	Application of Polynomial Spline Independent Component Analysis to fMRI Data. , 0, , .		3
105	Changes in resting-state brain networks in writer's cramp. <i>Human Brain Mapping</i> , 2012, 33, 840-848.	1.9	63
106	A constrained independent component analysis technique for artery-vein separation of two-photon laser scanning microscopy images of the cerebral microvasculature. <i>Medical Image Analysis</i> , 2012, 16, 239-251.	7.0	13
107	De-noising, phase ambiguity correction and visualization techniques for complex-valued ICA of group fMRI data. <i>Pattern Recognition</i> , 2012, 45, 2050-2063.	5.1	35
108	Functional networks for cognitive control in a stop signal task: Independent component analysis. <i>Human Brain Mapping</i> , 2012, 33, 89-104.	1.9	172
109	Functional parcellation of the inferior frontal and midcingulate cortices in a flanker-stop-change paradigm. <i>Human Brain Mapping</i> , 2013, 34, 1501-1514.	1.9	18

#	ARTICLE	IF	CITATIONS
110	Total activation: fMRI deconvolution through spatio-temporal regularization. <i>NeuroImage</i> , 2013, 73, 121-134.	2.1	114
111	State-Space Analysis of Working Memory in Schizophrenia: An FBIRN Study. <i>Psychometrika</i> , 2013, 78, 279-307.	1.2	6
112	The impact of denoising on independent component analysis of functional magnetic resonance imaging data. <i>Journal of Neuroscience Methods</i> , 2013, 213, 105-122.	1.3	25
113	Abnormal Functional Network Connectivity among Resting-State Networks in Children with Frontal Lobe Epilepsy. <i>American Journal of Neuroradiology</i> , 2013, 34, 2386-2392.	1.2	55
114	Independent component analysis based assessment of linked gray and white matter in the initial stages of Alzheimer's disease using structural MRI phase images. , 2013, , .		1
115	The Antidepressant Effect of Laser Acupuncture: A Comparison of the Resting Brain's Default Mode Network in Healthy and Depressed Subjects During Functional Magnetic Resonance Imaging. <i>Medical Acupuncture</i> , 2013, 25, 124-133.	0.3	34
116	Blind Equalization in Optical Communications Using Independent Component Analysis. <i>Journal of Lightwave Technology</i> , 2013, 31, 2043-2049.	2.7	17
117	A multimodal approach to analysis of steady state visually evoked potentials. , 2013, , .		0
118	A preliminary investigation of Stroop-related intrinsic connectivity in cocaine dependence: associations with treatment outcomes. <i>American Journal of Drug and Alcohol Abuse</i> , 2013, 39, 392-402.	1.1	53
119	Detection of Transient Inter-regional Coupling in fMRI Time Series: A New Method Combining Inter-subjects Synchronization and Cluster-Analyses. , 2013, , .		1
120	Statistical Analysis of Brain MRI Data. <i>Japanese Journal of Biometrics</i> , 2013, 33, 145-174.	0.0	2
121	Spatiotemporal Segregation of Neural Response to Auditory Stimulation: An fMRI Study Using Independent Component Analysis and Frequency-Domain Analysis. <i>PLoS ONE</i> , 2013, 8, e66424.	1.1	4
122	ICA analysis of fMRI with real-time constraints: an evaluation of fast detection performance as function of algorithms, parameters and a priori conditions. <i>Frontiers in Human Neuroscience</i> , 2013, 7, 19.	1.0	14
123	The Use of a priori Information in ICA-Based Techniques for Real-Time fMRI: An Evaluation of Static/Dynamic and Spatial/Temporal Characteristics. <i>Frontiers in Human Neuroscience</i> , 2013, 7, 64.	1.0	13
124	Single trial decoding of belief decision making from EEG and fMRI data using independent components features. <i>Frontiers in Human Neuroscience</i> , 2013, 7, 392.	1.0	23
125	A review of multivariate analyses in imaging genetics. <i>Frontiers in Neuroinformatics</i> , 2014, 8, 29.	1.3	98
126	Investigating the spatial and temporal interactions in resting-state fMRI with total activation. , 2014, , .		0
127	Modeling heart beat dynamics and fMRI signals during carotid stimulation by neck suction. , 2014, 2014, 6647-50.		0



#	ARTICLE	IF	CITATIONS
128	A statistically motivated framework for simulation of stochastic data fusion models applied to multimodal neuroimaging. <i>NeuroImage</i> , 2014, 102, 92-117.	2.1	48
129	A single SVD sparse dictionary learning algorithm for fMRI data analysis. , 2014, , .		22
130	Denosing the speaking brain: Toward a robust technique for correcting artifact-contaminated fMRI data under severe motion. <i>NeuroImage</i> , 2014, 103, 33-47.	2.1	34
131	Common and unique neural networks for proactive and reactive response inhibition revealed by independent component analysis of functional MRI data. <i>NeuroImage</i> , 2014, 103, 65-74.	2.1	103
132	Functional connectivity during cognitive control in children with autism spectrum disorder: an independent component analysis. <i>Journal of Neural Transmission</i> , 2014, 121, 1145-1155.	1.4	26
133	Fractional Anisotropy Changes in Alzheimer's Disease Depend on the Underlying Fiber Tract Architecture: A Multiparametric DTI Study using Joint Independent Component Analysis. <i>Journal of Alzheimer's Disease</i> , 2014, 41, 69-83.	1.2	71
134	A Review of Feature Reduction Techniques in Neuroimaging. <i>Neuroinformatics</i> , 2014, 12, 229-244.	1.5	418
135	A novel fMRI group data analysis method based on data-driven reference extracting from group subjects. <i>Computer Methods and Programs in Biomedicine</i> , 2015, 122, 362-371.	2.6	30
136	Connectivity-based whole brain dual parcellation by group <scp>ICA</scp> reveals tract structures and decreased connectivity in schizophrenia. <i>Human Brain Mapping</i> , 2015, 36, 4681-4701.	1.9	33
137	Structural Connectivity Changes Underlying Altered Working Memory Networks in Mild Cognitive Impairment: A Three-Way Image Fusion Analysis. <i>Journal of Neuroimaging</i> , 2015, 25, 634-642.	1.0	10
138	A disembodied man: A case of somatopsychic depersonalization in schizotypal disorder. <i>PsyCh Journal</i> , 2015, 4, 186-198.	0.5	4
139	Independent component analysis of functional networks for response inhibition: Inter-subject variation in stop signal reaction time. <i>Human Brain Mapping</i> , 2015, 36, 3289-3302.	1.9	36
140	New Negentropy Optimization Schemes for Blind Signal Extraction of Complex Valued Sources. <i>Radioengineering</i> , 2015, 24, 262-271.	0.3	0
141	Alternating Direction Method of Multipliers for Separable Convex Optimization of Real Functions in Complex Variables. <i>Mathematical Problems in Engineering</i> , 2015, 2015, 1-14.	0.6	42
142	Capturing the dynamics of response variability in the brain in ADHD. <i>NeuroImage: Clinical</i> , 2015, 7, 132-141.	1.4	39
143	ICA of full complex-valued fMRI data using phase information of spatial maps. <i>Journal of Neuroscience Methods</i> , 2015, 249, 75-91.	1.3	32
144	A two-step super-Gaussian independent component analysis approach for fMRI data. <i>NeuroImage</i> , 2015, 118, 344-358.	2.1	7
145	Information flow between interacting human brains: Identification, validation, and relationship to social expertise. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 5207-5212.	3.3	131

#	ARTICLE	IF	CITATIONS
146	Transient brain activity disentangles fMRI resting-state dynamics in terms of spatially and temporally overlapping networks. <i>Nature Communications</i> , 2015, 6, 7751.	5.8	307
147	A texture-based method for classification of schizophrenia using fMRI data. <i>Biocybernetics and Biomedical Engineering</i> , 2015, 35, 45-53.	3.3	6
148	Holistic atlases of functional networks and interactions (HAFNI). , 2016, , 435-454.		0
149	Technical Note: Independent component analysis for quality assurance in functional MRI. <i>Medical Physics</i> , 2016, 43, 983-992.	1.6	3
150	Applying fully tensorial ICA to fMRI data. , 2016, , .		7
151	Application of independent component analysis to multitemporal InSAR data with volcanic case studies. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 8970-8986.	1.4	51
152	Learning dictionaries from correlated data: Application to fMRI data analysis. , 2016, , .		4
153	Archetypal Analysis for Modeling Multisubject fMRI Data. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2016, 10, 1160-1171.	7.3	17
154	Variational group-PCA for intrinsic dimensionality determination in fMRI data. , 2016, , .		0
155	Left posterior-dorsal area 44 couples with parietal areas to promote speech fluency, while right area 44 activity promotes the stopping of motor responses. <i>NeuroImage</i> , 2016, 142, 628-644.	2.1	60
156	Blind Source Separation for Unimodal and Multimodal Brain Networks: A Unifying Framework for Subspace Modeling. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2016, 10, 1134-1149.	7.3	20
157	Atypical functional connectivity in resting-state networks of individuals with 22q11.2 deletion syndrome: associations with neurocognitive and psychiatric functioning. <i>Journal of Neurodevelopmental Disorders</i> , 2016, 8, 2.	1.5	26
158	Improved FastICA algorithm in fMRI data analysis using the sparsity property of the sources. <i>Journal of Neuroscience Methods</i> , 2016, 263, 103-114.	1.3	18
159	Linked Component Analysis From Matrices to High-Order Tensors: Applications to Biomedical Data. <i>Proceedings of the IEEE</i> , 2016, 104, 310-331.	16.4	148
160	Flexible large-scale fMRI analysis: A survey. , 2017, , .		4
161	Assisted dictionary learning for FMRI data analysis. , 2017, , .		2
162	Functional connectivity in incarcerated male adolescents with psychopathic traits. <i>Psychiatry Research - Neuroimaging</i> , 2017, 265, 35-44.	0.9	27
163	On the complex domain deep machine learning for face recognition. <i>Applied Intelligence</i> , 2017, 47, 382-396.	3.3	39

#	ARTICLE	IF	CITATIONS
164	Sequential Dictionary Learning From Correlated Data: Application to fMRI Data Analysis. IEEE Transactions on Image Processing, 2017, 26, 3002-3015.	6.0	35
165	Avoiding boredom: Caudate and insula activity reflects boredom-elicited purchase bias. Cortex, 2017, 92, 57-69.	1.1	26
166	Functional Connectivity Parcellation of the Human Thalamus by Independent Component Analysis. Brain Connectivity, 2017, 7, 602-616.	0.8	26
167	Ten Key Observations on the Analysis of Resting-state Functional MR Imaging Data Using Independent Component Analysis. Neuroimaging Clinics of North America, 2017, 27, 561-579.	0.5	98
168	Altered Brain Network Connectivity as a Potential Endophenotype of Schizophrenia. Scientific Reports, 2017, 7, 5483.	1.6	40
169	Alterations in functional brain networks associated with loss-chasing in gambling disorder and cocaine-use disorder. Drug and Alcohol Dependence, 2017, 178, 363-371.	1.6	43
170	PARAFAC2 and its block term decomposition analog for blind fMRI source unmixing. , 2017, , .		6
171	A low-rank multivariate general linear model for multi-subject fMRI data and a non-convex optimization algorithm for brain response comparison. NeuroImage, 2018, 173, 580-591.	2.1	9
172	Three shades of grey: detecting brain abnormalities in children with autism using source-based and surface-based morphometry. European Journal of Neuroscience, 2018, 47, 690-700.	1.2	42
173	Capturing Common and Individual Components in fMRI Data by Discriminative Dictionary Learning. , 2018, , .		2
174	SCTICA: Sub-packet constrained temporal ICA method for fMRI data analysis. Computers in Biology and Medicine, 2018, 102, 75-85.	3.9	5
175	Response inhibition and fronto-striatal-thalamic circuit dysfunction in cocaine addiction. Drug and Alcohol Dependence, 2018, 192, 137-145.	1.6	30
176	Genetics Modulate Gray Matter Variation Beyond Disease Burden in Prodromal Huntington's Disease. Frontiers in Neurology, 2018, 9, 190.	1.1	4
177	Study of Resting-State Functional Connectivity Networks Using EEG Electrodes Position As Seed. Frontiers in Neuroscience, 2018, 12, 235.	1.4	73
178	Optimization of rs-fMRI parameters in the Seed Correlation Analysis (SCA) in DPARSF toolbox: A preliminary study. Journal of Neuroscience Research, 2019, 97, 433-443.	1.3	9
179	Translational Potential of Neuroimaging Genomic Analyses to Diagnosis and Treatment in Mental Disorders. Proceedings of the IEEE, 2019, 107, 912-927.	16.4	4
180	Emotion-Specific Facial Activation Maps Based on Infrared Thermal Image Sequences. IEEE Access, 2019, 7, 48046-48052.	2.6	15
181	Tensor-based Blind fMRI Source Separation Without the Gaussian Noise Assumption - A $\hat{l}^2$ -Divergence Approach. , 2019, , .		2

#	ARTICLE	IF	CITATIONS
182	Online dictionary learning for single-subject fMRI data unmixing. , 2019, , .		1
183	Blind fMRI source unmixing via higher-order tensor decompositions. Journal of Neuroscience Methods, 2019, 315, 17-47.	1.3	44
184	Decentralized temporal independent component analysis: Leveraging fMRI data in collaborative settings. NeuroImage, 2019, 186, 557-569.	2.1	10
185	Machine learning of brain gray matter differentiates sex in a large forensic sample. Human Brain Mapping, 2019, 40, 1496-1506.	1.9	95
186	Unraveling the spatiotemporal brain dynamics during a simulated reach-to-eat task. NeuroImage, 2019, 185, 58-71.	2.1	9
187	Linear Non-Gaussian Component Analysis Via Maximum Likelihood. Journal of the American Statistical Association, 2019, 114, 332-343.	1.8	12
188	IVA using complex multivariate GGD: application to fMRI analysis. Multidimensional Systems and Signal Processing, 2020, 31, 725-744.	1.7	3
189	Spatial and temporal joint, partially-joint and individual sources in independent component analysis: Application to social brain fMRI dataset. Journal of Neuroscience Methods, 2020, 329, 108453.	1.3	0
190	Multidimensional clinical data denoising via Bayesian CP factorization. Science China Technological Sciences, 2020, 63, 249-254.	2.0	9
191	AI -Enhanced Diagnosis of Challenging Lesions in Breast MRI : A Methodology and Application Primer. Journal of Magnetic Resonance Imaging, 2020, 54, 686-702.	1.9	26
192	Independent vector analysis for common subspace analysis: Application to multi-subject fMRI data yields meaningful subgroups of schizophrenia. NeuroImage, 2020, 216, 116872.	2.1	20
193	Neural circuits of idiopathic Normal Pressure Hydrocephalus: A perspective review of brain connectivity and symptoms meta-analysis. Neuroscience and Biobehavioral Reviews, 2020, 112, 452-471.	2.9	12
194	Neural network connectivity in ADHD children: an independent component and functional connectivity analysis of resting state fMRI data.: Brain Imaging and Behavior, 2021, 15, 157-165.	1.1	21
195	Multimodal Imaging Analysis Reveals Frontal-Associated Networks in Relation to Individual Resilience Strength. International Journal of Environmental Research and Public Health, 2021, 18, 1123.	1.2	5
196	Healthy Aging Alters the Functional Connectivity of Creative Cognition in the Default Mode Network and Cerebellar Network. Frontiers in Aging Neuroscience, 2021, 13, 607988.	1.7	12
197	Modeling Hierarchical Spatial and Temporal Patterns of Naturalistic fMRI Volume via Volumetric Deep Belief Network with Neural Architecture Search. , 2021, , .		2
198	An Overview of ICA/BSS-Based Application to Alzheimer's Brain Signal Processing. Biomedicines, 2021, 9, 386.	1.4	5
199	A comparison of feature extraction methods for prediction of neuropsychological scores from functional connectivity data of stroke patients. Brain Informatics, 2021, 8, 8.	1.8	11

#	ARTICLE	IF	CITATIONS
201	Altered resting-state functional network connectivity in profound sensorineural hearing loss infants within an early sensitive period: A group ICA study. Human Brain Mapping, 2021, 42, 4314-4326.	1.9	13
202	Alteration of brain resting-state networks and functional connectivity in prelingual deafness. Journal of Neuroimaging, 2021, 31, 1135-1145.	1.0	4
203	Consecutive Independence and Correlation Transform for Multimodal Data Fusion: Discovery of One-to-Many Associations in Structural and Functional Imaging Data. Applied Sciences (Switzerland), 2021, 11, 8382.	1.3	3
204	Tracking spatial dynamics of functional connectivity during a task. NeuroImage, 2021, 239, 118310.	2.1	11
205	Advances in Data Preprocessing for Biomedical Data Fusion: An Overview of the Methods, Challenges, and Prospects. Information Fusion, 2021, 76, 376-421.	11.7	106
206	A Systematic Assessment of Feature Extraction Methods for Robust Prediction of Neuropsychological Scores from Functional Connectivity Data. Lecture Notes in Computer Science, 2020, , 29-40.	1.0	2
207	Higher-Order Block Term Decomposition for Spatially Folded fMRI Data. Lecture Notes in Computer Science, 2017, , 3-15.	1.0	13
208	Assessment of Renal Function from 3D Dynamic Contrast Enhanced MR Images Using Independent Component Analysis. , 2007, , 237-241.		3
209	Lattice Independent Component Analysis for fMRI Analysis. Lecture Notes in Computer Science, 2009, , 725-734.	1.0	2
210	Modulation of Brain Resting-State Networks by Sad Mood Induction. PLoS ONE, 2008, 3, e1794.	1.1	181
211	A Pilot Study on Collective Effects of 22q13.31 Deletions on Gray Matter Concentration in Schizophrenia. PLoS ONE, 2012, 7, e52865.	1.1	13
212	Listening to an Audio Drama Activates Two Processing Networks, One for All Sounds, Another Exclusively for Speech. PLoS ONE, 2013, 8, e64489.	1.1	18
213	How to Conduct a Functional Magnetic Resonance (fMRI) Study in Social Science Research. MIS Quarterly: Management Information Systems, 2012, 36, 811.	3.1	86
214	Non-Gaussian statistical inverse problems. Part I: Posterior distributions. Inverse Problems and Imaging, 2012, 6, 215-266.	0.6	35
215	Clustered Compressed Sensing in fMRI Data Analysis Using a Bayesian Framework. International Journal of Information and Electronics Engineering, 2014, 4, .	0.2	5
216	BAYESIAN SEPARATION OF DOCUMENT IMAGES WITH HIDDEN MARKOV MODEL. , 2007, , .		1
217	Constrained Complex-Valued ICA without Permutation Ambiguity Based on Negentropy Maximization. Lecture Notes in Computer Science, 2010, , 271-278.	1.0	2
218	A Comparison of VBM Results by SPM, ICA and LICA. Lecture Notes in Computer Science, 2010, , 429-435.	1.0	1

#	ARTICLE	IF	CITATIONS
219	Parallel EEG-fMRI ICA Decomposition. , 2010, , 175-194.		0
220	3.4 Fusion of EEG and fMRI by Parallel Group ICA. , 2010, , 161-174.		0
221	Exploration of LICA Detections in Resting State fMRI. Lecture Notes in Computer Science, 2011, , 104-111.	1.0	0
222	Signal Processing Architecture Implementation Methodologies for Next-Generation Remote Healthcare Systems. , 2014, , 93-128.		1
223	Structural and Functional Magnetic Resonance Imaging. , 2014, , 1-12.		0
224	Machine Recognition in Complex Domain. Studies in Computational Intelligence, 2015, , 131-165.	0.7	0
226	Polynomial Spline Independent Component Analysis with Application to fMRI Data. Frontiers in Neuroscience, 2016, , 227-261.	0.0	0
229	Identifying Hierarchical Individual Functional Network under Naturalistic Paradigm via Two-stage DBN with Neural Architecture Search. , 2020, , .		1
230	Some Points to Consider in a Task-Based fMRI Study: A Guideline for Beginners. Frontiers in Biomedical Technologies, 0, , .	0.0	2
231	Morphological Component Analysis of Functional MRI Brain Networks. IEEE Transactions on Biomedical Engineering, 2022, 69, 3193-3204.	2.5	2
232	Automated Classification of Resting-State fMRI ICA Components Using a Deep Siamese Network. Frontiers in Neuroscience, 2022, 16, 768634.	1.4	4
233	An Anisotropic 4D Filtering Approach to Recover Brain Activation From Paradigm-Free Functional MRI Data. , 2022, 1, .		2
234	An attention-based hybrid deep learning framework integrating brain connectivity and activity of resting-state functional MRI data. Medical Image Analysis, 2022, 78, 102413.	7.0	14
235	Hierarchical Spatio-Temporal Modeling of Naturalistic Functional Magnetic Resonance Imaging Signals via Two-Stage Deep Belief Network With Neural Architecture Search. Frontiers in Neuroscience, 2021, 15, 794955.	1.4	3
241	Functional Connectivity of the Chemosenses: A Review. Frontiers in Systems Neuroscience, 0, 16, .	1.2	3
242	Improving power in functional magnetic resonance imaging by moving beyond cluster-level inference. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	27
245	Embedding Human Brain Function via Transformer. Lecture Notes in Computer Science, 2022, , 366-375.	1.0	3
246	Brain disorder prediction with dynamic multivariate spatio-temporal features: Application to Alzheimer's disease and autism spectrum disorder. Frontiers in Aging Neuroscience, 0, 14, .	1.7	4

#	ARTICLE	IF	CITATIONS
247	Fetal frontolimbic connectivity prospectively associates with aggression in toddlers. <i>Biological Psychiatry Global Open Science</i> , 2022, , .	1.0	0
248	Clusterwise Independent Component Analysis (C-ICA): Using fMRI resting state networks to cluster subjects and find neurofunctional subtypes. <i>Journal of Neuroscience Methods</i> , 2022, 382, 109718.	1.3	2
249	Wide-Field Calcium Imaging of Neuronal Network Dynamics In Vivo. <i>Biology</i> , 2022, 11, 1601.	1.3	9
250	Joint connectivity matrix independent component analysis: Auto-linking of structural and functional connectivities. <i>Human Brain Mapping</i> , 2023, 44, 1533-1547.	1.9	4
251	To be and not to be: wide-field Ca <sup>2+</sup> imaging reveals neocortical functional segmentation combines stability and flexibility. <i>Cerebral Cortex</i> , 2023, 33, 6543-6558.	1.6	8
252	The Current State of Functional MR Imaging for Trauma Prognostication. <i>Neuroimaging Clinics of North America</i> , 2023, 33, 299-313.	0.5	1
259	The Multivariate Transformer Network for Mild Cognitive Impairment Identification. , 2023, , .		0