Andrzej Cichocki

List of Publications by Year
in descending order

551 papers	26,835 citations	5261 83 h-index	11928 134 g-index
576 all docs	576 docs citations	576 times ranked	14362 citing authors

#	Article	IF	Citations
1	Tensor Decompositions for Signal Processing Applications: From two-way to multiway component analysis. IEEE Signal Processing Magazine, 2015, 32, 145-163.	4.6	959
2	Steady-state visually evoked potentials: Focus on essential paradigms and future perspectives. Progress in Neurobiology, 2010, 90, 418-438.	2.8	864
3	Bayesian CP Factorization of Incomplete Tensors with Automatic Rank Determination. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2015, 37, 1751-1763.	9.7	495
4	EmotionMeter: A Multimodal Framework for Recognizing Human Emotions. IEEE Transactions on Cybernetics, 2019, 49, 1110-1122.	6.2	452
5	A comparative study of synchrony measures for the early diagnosis of Alzheimer's disease based on EEG. NeuroImage, 2010, 49, 668-693.	2.1	408
6	Diagnosis of Alzheimers Disease from EEG Signals: Where Are We Standing?. Current Alzheimer Research, 2010, 7, 487-505.	0.7	382
7	Fast Local Algorithms for Large Scale Nonnegative Matrix and Tensor Factorizations. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2009, E92-A, 708-721.	0.2	379
8	Adaptive blind signal processing-neural network approaches. Proceedings of the IEEE, 1998, 86, 2026-2048.	16.4	361
9	FREQUENCY RECOGNITION IN SSVEP-BASED BCI USING MULTISET CANONICAL CORRELATION ANALYSIS. International Journal of Neural Systems, 2014, 24, 1450013.	3.2	311
10	Families of Alpha- Beta- and Gamma- Divergences: Flexible and Robust Measures of Similarities. Entropy, 2010, 12, 1532-1568.	1.1	289
11	Sparse Component Analysis and Blind Source Separation of Underdetermined Mixtures. IEEE Transactions on Neural Networks, 2005, 16, 992-996.	4.8	280
12	Analysis of Sparse Representation and Blind Source Separation. Neural Computation, 2004, 16, 1193-1234.	1.3	277
13	Stability Analysis of Learning Algorithms for Blind Source Separation. Neural Networks, 1997, 10, 1345-1351.	3.3	270
14	Underdetermined blind source separation based on sparse representation. IEEE Transactions on Signal Processing, 2006, 54, 423-437.	3.2	261
15	Tensor Networks for Dimensionality Reduction and Large-scale Optimization: Part 1 Low-Rank Tensor Decompositions. Foundations and Trends in Machine Learning, 2016, 9, 249-429.	46.6	255
16	Correlation-based channel selection and regularized feature optimization for MI-based BCI. Neural Networks, 2019, 118, 262-270.	3.3	238
17	Temporally Constrained Sparse Group Spatial Patterns for Motor Imagery BCI. IEEE Transactions on Cybernetics, 2019, 49, 3322-3332.	6.2	232
18	Optimizing spatial patterns with sparse filter bands for motor-imagery based brainâ€"computer interface. Journal of Neuroscience Methods, 2015, 255, 85-91.	1.3	223

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19	L1-Regularized Multiway Canonical Correlation Analysis for SSVEP-Based BCI. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2013, 21, 887-896.	2.7	219
20	Sparse Bayesian Classification of EEG for Brain–Computer Interface. IEEE Transactions on Neural Networks and Learning Systems, 2016, 27, 2256-2267.	7.2	208
21	Multi-kernel extreme learning machine for EEG classification in brain-computer interfaces. Expert Systems With Applications, 2018, 96, 302-310.	4.4	208
22	Higher Order Partial Least Squares (HOPLS): A Generalized Multilinear Regression Method. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2013, 35, 1660-1673.	9.7	203
23	Symmetric Nonnegative Matrix Factorization: Algorithms and Applications to Probabilistic Clustering. IEEE Transactions on Neural Networks, 2011, 22, 2117-2131.	4.8	202
24	Robust neural networks with on-line learning for blind identification and blind separation of sources. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 1996, 43, 894-906.	0.1	199
25	Extraction of Specific Signals with Temporal Structure. Neural Computation, 2001, 13, 1995-2003.	1.3	194
26	Smooth PARAFAC Decomposition for Tensor Completion. IEEE Transactions on Signal Processing, 2016, 64, 5423-5436.	3.2	184
27	Fast Nonnegative Matrix/Tensor Factorization Based on Low-Rank Approximation. IEEE Transactions on Signal Processing, 2012, 60, 2928-2940.	3.2	182
28	Hierarchical ALS Algorithms for Nonnegative Matrix and 3D Tensor Factorization. , 2007, , 169-176.		180
29	Kernel PCA for Feature Extraction and De-Noising in Nonlinear Regression. Neural Computing and Applications, 2001, 10, 231-243.	3.2	174
30	Spatial-Temporal Discriminant Analysis for ERP-Based Brain-Computer Interface. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2013, 21, 233-243.	2.7	167
31	A Novel EOG/EEG Hybrid Human–Machine Interface Adopting Eye Movements and ERPs: Application to Robot Control. IEEE Transactions on Biomedical Engineering, 2015, 62, 876-889.	2.5	167
32	Robust learning algorithm for blind separation of signals. Electronics Letters, 1994, 30, 1386-1387.	0.5	165
33	Generalized Alpha-Beta Divergences and Their Application to Robust Nonnegative Matrix Factorization. Entropy, 2011, 13, 134-170.	1.1	160
34	Optimization of SSVEP brain responses with application to eight-command Brain–Computer Interface. Neuroscience Letters, 2010, 469, 34-38.	1.0	157
35	Tensor decompositions for feature extraction and classification of high dimensional datasets. Nonlinear Theory and Its Applications IEICE, 2010, 1, 37-68.	0.4	155
36	Bayesian Robust Tensor Factorization for Incomplete Multiway Data. IEEE Transactions on Neural Networks and Learning Systems, 2016, 27, 736-748.	7.2	154

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37	Neural networks for solving systems of linear equations and related problems. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 1992, 39, 124-138.	0.1	151
38	Fully Online Multicommand Brain-Computer Interface with Visual Neurofeedback Using SSVEP Paradigm. Computational Intelligence and Neuroscience, 2007, 2007, 1-9.	1.1	150
39	Detecting the Number of Clusters in n-Way Probabilistic Clustering. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2010, 32, 2006-2021.	9.7	148
40	Linked Component Analysis From Matrices to High-Order Tensors: Applications to Biomedical Data. Proceedings of the IEEE, 2016, 104, 310-331.	16.4	148
41	EEG filtering based on blind source separation (BSS) for early detection of Alzheimer's disease. Clinical Neurophysiology, 2005, 116, 729-737.	0.7	147
42	Internal Feature Selection Method of CSP Based on L1-Norm and Dempster–Shafer Theory. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 4814-4825.	7.2	147
43	Blind noise reduction for multisensory signals using ICA and subspace filtering, with application to EEG analysis. Biological Cybernetics, 2002, 86, 293-303.	0.6	143
44	Sparse Group Representation Model for Motor Imagery EEG Classification. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 631-641.	3.9	140
45	Robust whitening procedure in blind source separation context. Electronics Letters, 2000, 36, 2050.	0.5	138
46	Slowing and Loss of Complexity in Alzheimer's EEG: Two Sides of the Same Coin?. International Journal of Alzheimer's Disease, 2011, 2011, 1-10.	1.1	137
47	Computing Sparse Representations of Multidimensional Signals Using Kronecker Bases. Neural Computation, 2013, 25, 186-220.	1.3	137
48	Information–theoretic approach to blind separation of sources in non-linear mixture. Signal Processing, 1998, 64, 291-300.	2.1	135
49	Efficient Nonnegative Tucker Decompositions: Algorithms and Uniqueness. IEEE Transactions on Image Processing, 2015, 24, 4990-5003.	6.0	135
50	Total Variation Regularized Tensor RPCA for Background Subtraction From Compressive Measurements. IEEE Transactions on Image Processing, 2016, 25, 4075-4090.	6.0	135
51	A novel BCI based on ERP components sensitive to configural processing of human faces. Journal of Neural Engineering, 2012, 9, 026018.	1.8	132
52	Cortical functional connectivity networks in normal and spinal cord injured patients: Evaluation by graph analysis. Human Brain Mapping, 2007, 28, 1334-1346.	1.9	131
53	Generalizing the column–row matrix decomposition to multi-way arrays. Linear Algebra and Its Applications, 2010, 433, 557-573.	0.4	128
54	Tensor Networks for Dimensionality Reduction and Large-scale Optimization: Part 2 Applications and Future Perspectives. Foundations and Trends in Machine Learning, 2017, 9, 249-429.	46.6	128

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55	Feature learning from incomplete EEG with denoising autoencoder. Neurocomputing, 2015, 165, 23-31.	3.5	127
56	Towards correlation-based time window selection method for motor imagery BCIs. Neural Networks, 2018, 102, 87-95.	3.3	127
57	The Changing Face of P300 BCIs: A Comparison of Stimulus Changes in a P300 BCI Involving Faces, Emotion, and Movement. PLoS ONE, 2012, 7, e49688.	1.1	125
58	Group Component Analysis for Multiblock Data: Common and Individual Feature Extraction. IEEE Transactions on Neural Networks and Learning Systems, 2016, 27, 2426-2439.	7.2	125
59	Flexible Independent Component Analysis. Journal of Signal Processing Systems, 2000, 26, 25-38.	1.0	124
60	Non-negative matrix factorization with α-divergence. Pattern Recognition Letters, 2008, 29, 1433-1440.	2.6	121
61	Discriminative Feature Extraction via Multivariate Linear Regression for SSVEP-Based BCI. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2016, 24, 532-541.	2.7	120
62	Natural gradient algorithm for blind separation of overdetermined mixture with additive noise. IEEE Signal Processing Letters, 1999, 6, 293-295.	2.1	119
63	A P300 Brain–Computer Interface Based on a Modification of the Mismatch Negativity Paradigm. International Journal of Neural Systems, 2015, 25, 1550011.	3.2	119
64	Nonnegative Matrix and Tensor Factorization [Lecture Notes]. IEEE Signal Processing Magazine, 2008, 25, 142-145.	4.6	118
65	Noninvasive BCIs: Multiway Signal-Processing Array Decompositions. Computer, 2008, 41, 34-42.	1.2	116
66	Improved SFFS method for channel selection in motor imagery based BCI. Neurocomputing, 2016, 207, 519-527.	3.5	110
67	Equivariant nonstationary source separation. Neural Networks, 2002, 15, 121-130.	3.3	107
68	Multilayer nonnegative matrix factorisation. Electronics Letters, 2006, 42, 947.	0.5	107
69	MULTISCALE ENTROPY ANALYSIS OF EEG FROM PATIENTS UNDER DIFFERENT PATHOLOGICAL CONDITIONS. Fractals, 2007, 15, 399-404.	1.8	107
70	AN ERP-BASED BCI USING AN ODDBALL PARADIGM WITH DIFFERENT FACES AND REDUCED ERRORS IN CRITICAL FUNCTIONS. International Journal of Neural Systems, 2014, 24, 1450027.	3.2	103
71	Canonical Polyadic Decomposition Based on a Single Mode Blind Source Separation. IEEE Signal Processing Letters, 2012, 19, 523-526.	2.1	102
72	NONNEGATIVE TENSOR FACTORIZATION FOR CONTINUOUS EEG CLASSIFICATION. International Journal of Neural Systems, 2007, 17, 305-317.	3.2	101

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73	Fast Alternating LS Algorithms for High Order CANDECOMP/PARAFAC Tensor Factorizations. IEEE Transactions on Signal Processing, 2013, 61, 4834-4846.	3.2	100
74	Sequential blind signal extraction in order specified by stochastic properties. Electronics Letters, 1997, 33, 64.	0.5	97
75	From Blind Signal Extraction to Blind Instantaneous Signal Separation: Criteria, Algorithms, and Stability. IEEE Transactions on Neural Networks, 2004, 15, 859-873.	4.8	96
76	Two Efficient Algorithms for Approximately Orthogonal Nonnegative Matrix Factorization. IEEE Signal Processing Letters, 2015, 22, 843-846.	2.1	96
77	Multiway Canonical Correlation Analysis for Frequency Components Recognition in SSVEP-Based BCIs. Lecture Notes in Computer Science, 2011, , 287-295.	1.0	96
78	Blind separation of nonstationary sources in noisy mixtures. Electronics Letters, 2000, 36, 848.	0.5	95
79	Enhanced Motor Imagery Training Using a Hybrid BCI With Feedback. IEEE Transactions on Biomedical Engineering, 2015, 62, 1706-1717.	2.5	95
80	Bispectrum-Based Channel Selection for Motor Imagery Based Brain-Computer Interfacing. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 2153-2163.	2.7	93
81	Nonnegative Matrix and Tensor Factorizations : An algorithmic perspective. IEEE Signal Processing Magazine, 2014, 31, 54-65.	4.6	91
82	Bimodal BCI Using Simultaneously NIRS and EEG. IEEE Transactions on Biomedical Engineering, 2014, 61, 1274-1284.	2.5	91
83	The Study of Generic Model Set for Reducing Calibration Time in P300-Based Brain–Computer Interface. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 3-12.	2.7	90
84	Low Complexity Damped Gauss--Newton Algorithms for CANDECOMP/PARAFAC. SIAM Journal on Matrix Analysis and Applications, 2013, 34, 126-147.	0.7	89
85	SSVEP recognition using common feature analysis in brain–computer interface. Journal of Neuroscience Methods, 2015, 244, 8-15.	1.3	88
86	Smooth nonnegative matrix and tensor factorizations for robust multi-way data analysis. Signal Processing, 2015, 113, 234-249.	2.1	87
87	Removal of Ballistocardiogram Artifacts From Simultaneously Recorded EEG and fMRI Data Using Independent Component Analysis. IEEE Transactions on Biomedical Engineering, 2006, 53, 1294-1308.	2.5	84
88	GOM-Face: GKP, EOG, and EMG-Based Multimodal Interface With Application to Humanoid Robot Control. IEEE Transactions on Biomedical Engineering, 2014, 61, 453-462.	2.5	84
89	Neural networks for blind separation with unknown number of sources. Neurocomputing, 1999, 24, 55-93.	3.5	83
90	Nonholonomic Orthogonal Learning Algorithms for Blind Source Separation. Neural Computation, 2000, 12, 1463-1484.	1.3	83

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91	Nonnegative matrix factorization with constrained second-order optimization. Signal Processing, 2007, 87, 1904-1916.	2.1	83
92	PARAFAC algorithms for large-scale problems. Neurocomputing, 2011, 74, 1970-1984.	3.5	83
93	AGGREGATION OF SPARSE LINEAR DISCRIMINANT ANALYSES FOR EVENT-RELATED POTENTIAL CLASSIFICATION IN BRAIN-COMPUTER INTERFACE. International Journal of Neural Systems, 2014, 24, 1450003.	3.2	83
94	EEG paroxysmal gamma waves during Bhramari Pranayama: A yoga breathing technique. Consciousness and Cognition, 2009, 18, 977-988.	0.8	82
95	Second Order Nonstationary Source Separation. Journal of Signal Processing Systems, 2002, 32, 93-104.	1.0	81
96	A Minor Component Analysis Algorithm. Neural Networks, 1997, 10, 291-297.	3.3	79
97	EEG-based asynchronous BCI control of a car in 3D virtual reality environments. Science Bulletin, 2009, 54, 78-87.	1.7	76
98	MULTILAYER NONNEGATIVE MATRIX FACTORIZATION USING PROJECTED GRADIENT APPROACHES. International Journal of Neural Systems, 2007, 17, 431-446.	3.2	75
99	An optimized ERP brainâ€"computer interface based on facial expression changes. Journal of Neural Engineering, 2014, 11, 036004.	1.8	72
100	Robust techniques for independent component analysis (ICA) with noisy data. Neurocomputing, 1998, 22, 113-129.	3.5	71
101	Convolutive Blind Source Separation in the Frequency Domain Based on Sparse Representation. IEEE Transactions on Audio Speech and Language Processing, 2007, 15, 1551-1563.	3.8	68
102	Learning Common Time-Frequency-Spatial Patterns for Motor Imagery Classification. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2021, 29, 699-707.	2.7	66
103	Individual Classification of Emotions Using EEG. Journal of Biomedical Science and Engineering, 2014, 07, 604-620.	0.2	66
104	K-hyperline clustering learning for sparse component analysis. Signal Processing, 2009, 89, 1011-1022.	2.1	65
105	Multidimensional compressed sensing and their applications. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2013, 3, 355-380.	4.6	64
106	MULTI-DOMAIN FEATURE EXTRACTION FOR SMALL EVENT-RELATED POTENTIALS THROUGH NONNEGATIVE MULTI-WAY ARRAY DECOMPOSITION FROM LOW DENSE ARRAY EEG. International Journal of Neural Systems, 2013, 23, 1350006.	3.2	64
107	Measures of resting state EEG rhythms for clinical trials in Alzheimer's disease: Recommendations of an expert panel. Alzheimer's and Dementia, 2021, 17, 1528-1553.	0.4	64
108	Neural networks for blind decorrelation of signals. IEEE Transactions on Signal Processing, 1997, 45, 2829-2842.	3.2	63

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109	Information geometry of divergence functions. Bulletin of the Polish Academy of Sciences: Technical Sciences, 2010, 58, 183-195.	0.8	62
110	Title is missing!. , 2000, 12, 91-98.		60
111	Extended HALS algorithm for nonnegative Tucker decomposition and its applications for multiway analysis and classification. Neurocomputing, 2011, 74, 1956-1969.	3.5	59
112	An improved P300 pattern in BCI to catch user's attention. Journal of Neural Engineering, 2017, 14, 036001.	1.8	59
113	Multiway array decomposition analysis of EEGs in Alzheimer's disease. Journal of Neuroscience Methods, 2012, 207, 41-50.	1.3	58
114	Robust Similarity Measurement Based on a Novel Time Filter for SSVEPs Detection. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 4096-4105.	7.2	58
115	Neural networks for computing eigenvalues and eigenvectors. Biological Cybernetics, 1992, 68, 155-164.	0.6	57
116	An iterative inversion approach to blind source separation. IEEE Transactions on Neural Networks, 2000, 11, 1423-1437.	4.8	57
117	Non-negative Matrix Factorization with Orthogonality Constraints and its Application to Raman Spectroscopy. Journal of Signal Processing Systems, 2007, 48, 83-97.	1.0	56
118	Extended SMART Algorithms for Non-negative Matrix Factorization. Lecture Notes in Computer Science, 2006, , 548-562.	1.0	56
119	Kernelization of Tensor-Based Models for Multiway Data Analysis: Processing of Multidimensional Structured Data. IEEE Signal Processing Magazine, 2013, 30, 137-148.	4.6	55
120	A Multiplicative Algorithm for Convolutive Non-Negative Matrix Factorization Based on Squared Euclidean Distance. IEEE Transactions on Signal Processing, 2009, 57, 2858-2864.	3.2	54
121	Improved M-FOCUSS Algorithm With Overlapping Blocks for Locally Smooth Sparse Signals. IEEE Transactions on Signal Processing, 2008, 56, 4752-4761.	3.2	53
122	EMD APPROACH TO MULTICHANNEL EEG DATA â€" THE AMPLITUDE AND PHASE COMPONENTS CLUSTERING ANALYSIS. Journal of Circuits, Systems and Computers, 2010, 19, 215-229.	1.0	53
123	BENEFITS OF MULTI-DOMAIN FEATURE OF MISMATCH NEGATIVITY EXTRACTED BY NON-NEGATIVE TENSOR FACTORIZATION FROM EEG COLLECTED BY LOW-DENSITY ARRAY. International Journal of Neural Systems, 2012, 22, 1250025.	3.2	53
124	Robust blind source separation algorithms using cumulants. Neurocomputing, 2002, 49, 87-118.	3.5	52
125	A robust approach to independent component analysis of signals with high-level noise measurements. IEEE Transactions on Neural Networks, 2003, 14, 631-645.	4.8	52
126	Blind Estimation of Channel Parameters and Source Components for EEG Signals: A Sparse Factorization Approach. IEEE Transactions on Neural Networks, 2006, 17, 419-431.	4.8	51

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127	Sparse Bayesian multiway canonical correlation analysis for EEG pattern recognition. Neurocomputing, 2017, 225, 103-110.	3.5	50
128	An Optimized Channel Selection Method Based on Multifrequency CSP-Rank for Motor Imagery-Based BCI System. Computational Intelligence and Neuroscience, 2019, 2019, 1-10.	1.1	50
129	Self-Adaptive Blind Source Separation Based on Activation Functions Adaptation. IEEE Transactions on Neural Networks, 2004, 15, 233-244.	4.8	49
130	Kernel nonnegative matrix factorization for spectral EEG feature extraction. Neurocomputing, 2009, 72, 3182-3190.	3.5	48
131	Near-Lossless Multichannel EEG Compression Based on Matrix and Tensor Decompositions. IEEE Journal of Biomedical and Health Informatics, 2013, 17, 708-714.	3.9	48
132	Fast nonnegative tensor factorization based on accelerated proximal gradient and low-rank approximation. Neurocomputing, 2016, 198, 148-154.	3.5	47
133	New learning algorithm for blind separation of sources. Electronics Letters, 1992, 28, 1986.	0.5	46
134	Artificial neural networks for real-time estimation of basic waveforms of voltages and currents. IEEE Transactions on Power Systems, 1994, 9, 612-618.	4.6	46
135	Non-Negative Tensor Factorization using Alpha and Beta Divergences. , 2007, , .		46
136	An empirical EEG analysis in brain death diagnosis for adults. Cognitive Neurodynamics, 2008, 2, 257-271.	2.3	45
137	Log-Determinant Divergences Revisited: Alpha-Beta and Gamma Log-Det Divergences. Entropy, 2015, 17, 2988-3034.	1.1	45
138	Topological Network Analysis of Early Alzheimer's Disease Based on Resting-State EEG. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 2164-2172.	2.7	43
139	Techniques for early detection of Alzheimer's disease using spontaneous EEG recordings. Physiological Measurement, 2007, 28, 335-347.	1.2	42
140	Improved FOCUSS Method With Conjugate Gradient Iterations. IEEE Transactions on Signal Processing, 2009, 57, 399-404.	3.2	42
141	CANDECOMP/PARAFAC Decomposition of High-Order Tensors Through Tensor Reshaping. IEEE Transactions on Signal Processing, 2013, 61, 4847-4860.	3.2	42
142	A hybrid feature selection approach for the early diagnosis of Alzheimer's disease. Journal of Neural Engineering, 2015, 12, 016018.	1.8	42
143	Block Hankel Tensor ARIMA for Multiple Short Time Series Forecasting. Proceedings of the AAAI Conference on Artificial Intelligence, 2020, 34, 5758-5766.	3.6	42
144	Neural networks for solving systems of linear equations. II. Minimax and least absolute value problems. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 1992, 39, 619-633.	2.3	41

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145	Analysis and Online Realization of the CCA Approach for Blind Source Separation. IEEE Transactions on Neural Networks, 2007, 18, 1505-1510.	4.8	41
146	BCI-Based Rehabilitation on the Stroke in Sequela Stage. Neural Plasticity, 2020, 2020, 1-10.	1.0	41
147	Deep Learning in EEG: Advance of the Last Ten-Year Critical Period. IEEE Transactions on Cognitive and Developmental Systems, 2022, 14, 348-365.	2.6	41
148	GFIL: A Unified Framework for the Importance Analysis of Features, Frequency Bands, and Channels in EEG-Based Emotion Recognition. IEEE Transactions on Cognitive and Developmental Systems, 2022, 14, 935-947.	2.6	41
149	Independent component analysis for unaveraged single-trial MEG data decomposition and single-dipole source localization. Neurocomputing, 2002, 49, 255-277.	3.5	40
150	Blind Second-Order Source Extraction of Instantaneous Noisy Mixtures. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 2006, 53, 931-935.	2.3	40
151	Fast Nonnegative Matrix Factorization Algorithms Using Projected Gradient Approaches for Large-Scale Problems. Computational Intelligence and Neuroscience, 2008, 2008, 1-13.	1.1	40
152	Regularized Alternating Least Squares Algorithms for Non-negative Matrix/Tensor Factorization. Lecture Notes in Computer Science, 2007, , 793-802.	1.0	39
153	Whether generic model works for rapid ERP-based BCI calibration. Journal of Neuroscience Methods, 2013, 212, 94-99.	1.3	39
154	Efficient representations of EEG signals for SSVEP frequency recognition based on deep multiset CCA. Neurocomputing, 2020, 378, 36-44.	3.5	39
155	On Neural Blind Separation with Noise Suppression and Redundancy Reduction. International Journal of Neural Systems, 1997, 08, 219-237.	3.2	38
156	Matrix-Group Algorithm via Improved Whitening Process for Extracting Statistically Independent Sources From Array Signals. IEEE Transactions on Signal Processing, 2007, 55, 962-977.	3.2	38
157	Emotional faces boost up steady-state visual responsesforbrain–computer interface. NeuroReport, 2011, 22, 121-125.	0.6	38
158	Neural networks for computing best rank-one approximations of tensors and its applications. Neurocomputing, 2017, 267, 114-133.	3.5	38
159	A common neural-network model for unsupervised exploratory data analysis and independent component analysis. IEEE Transactions on Neural Networks, 1998, 9, 1495-1501.	4.8	37
160	EEG synchrony analysis for early diagnosis of Alzheimer's disease: A study with several synchrony measures and EEG data sets. , 2009, 2009, 2224-7.		37
161	Stable, Robust, and Super Fast Reconstruction of Tensors Using Multi-Way Projections. IEEE Transactions on Signal Processing, 2015, 63, 780-793.	3.2	37
162	Neural network for singular value decomposition. Electronics Letters, 1992, 28, 784.	0.5	36

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163	Complex Blind Source Extraction From Noisy Mixtures Using Second-Order Statistics. IEEE Transactions on Circuits and Systems I: Regular Papers, 2010, 57, 1404-1416.	3.5	36
164	Learning Efficient Tensor Representations with Ring-structured Networks. , 2019, , .		36
165	Randomized Algorithms for Computation of Tucker Decomposition and Higher Order SVD (HOSVD). IEEE Access, 2021, 9, 28684-28706.	2.6	36
166	Stable Low-Rank Tensor Decomposition for Compression of Convolutional Neural Network. Lecture Notes in Computer Science, 2020, , 522-539.	1.0	36
167	Extracting Information from Cortical Connectivity Patterns Estimated from High Resolution EEG Recordings: A Theoretical Graph Approach. Brain Topography, 2007, 19, 125-136.	0.8	35
168	Flexible HALS algorithms for sparse non-negative matrix/tensor factorization. , 2008, , .		35
169	Neural networks for solving linear inequality systems. Parallel Computing, 1997, 22, 1455-1475.	1.3	34
170	Noise reduction in brain evoked potentials based on third-order correlations. IEEE Transactions on Biomedical Engineering, 2001, 48, 501-512.	2.5	34
171	Fundamental tensor operations for large-scale data analysis using tensor network formats. Multidimensional Systems and Signal Processing, 2018, 29, 921-960.	1.7	34
172	Self-whitening algorithms for adaptive equalization and deconvolution. IEEE Transactions on Signal Processing, 1999, 47, 1161-1165.	3.2	33
173	A new nonlinear similarity measure for multichannel signals. Neural Networks, 2008, 21, 222-231.	3.3	33
174	On a new blind signal extraction algorithm: different criteria and stability analysis. IEEE Signal Processing Letters, 2002, 9, 233-236.	2.1	32
175	Nonnegative matrix factorization with quadratic programming. Neurocomputing, 2008, 71, 2309-2320.	3.5	32
176	Block sparse representations of tensors using Kronecker bases. , 2012, , .		31
177	Validating rationale of group-level component analysis based on estimating number of sources in EEG through model order selection. Journal of Neuroscience Methods, 2013, 212, 165-172.	1.3	31
178	Decoding EEG in Cognitive Tasks With Time-Frequency and Connectivity Masks. IEEE Transactions on Cognitive and Developmental Systems, 2016, 8, 298-308.	2.6	31
179	Simplified neural networks for solving linear least squares and total least squares problems in real time. IEEE Transactions on Neural Networks, 1994, 5, 910-923.	4.8	30
180	Probability estimation for recoverability analysis of blind source separation based on sparse representation. IEEE Transactions on Information Theory, 2006, 52, 3139-3152.	1.5	30

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181	Blind source extraction based on a linear predictor. IET Signal Processing, 2007, 1, 29-34.	0.9	30
182	Optimization of EEG frequency bands for improved diagnosis of Alzheimer disease. , 2011, 2011, 6087-91.		30
183	Tongue-Rudder: A Glossokinetic-Potential-Based Tongue–Machine Interface. IEEE Transactions on Biomedical Engineering, 2012, 59, 290-299.	2.5	30
184	Regularized Group Sparse Discriminant Analysis for P300-Based Brain–Computer Interface. International Journal of Neural Systems, 2019, 29, 1950002.	3.2	30
185	A joint optimization framework to semi-supervised RVFL and ELM networks for efficient data classification. Applied Soft Computing Journal, 2020, 97, 106756.	4.1	30
186	SincNet-Based Hybrid Neural Network for Motor Imagery EEG Decoding. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2022, 30, 540-549.	2.7	30
187	Second-order statistics based blind source separation using a bank of subband filters. , 2003, 13, 252-274.		29
188	Sequential blind source separation based exclusively on second-order statistics developed for a class of periodic signals. IEEE Transactions on Signal Processing, 2006, 54, 1028-1040.	3.2	29
189	Multichannel EEG brain activity pattern analysis in time–frequency domain with nonnegative matrix factorization support. International Congress Series, 2007, 1301, 266-269.	0.2	29
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