

Andrzej Cichocki

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538
papers

18,797
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73
h-index

121
g-index

576
ext. papers

23,350
ext. citations

3.5
avg, IF

7.23
L-index

#	Paper	IF	Citations
538	2002,		874
537	2009,		784
536	Steady-state visually evoked potentials: focus on essential paradigms and future perspectives. <i>Progress in Neurobiology</i> , 2010 , 90, 418-38	10.9	651
535	Tensor Decompositions for Signal Processing Applications: From two-way to multiway component analysis. <i>IEEE Signal Processing Magazine</i> , 2015 , 32, 145-163	9.4	635
534	Bayesian CP Factorization of Incomplete Tensors with Automatic Rank Determination. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2015 , 37, 1751-63	13.3	314
533	A comparative study of synchrony measures for the early diagnosis of Alzheimer's disease based on EEG. <i>NeuroImage</i> , 2010 , 49, 668-93	7.9	297
532	Diagnosis of Alzheimer's disease from EEG signals: where are we standing?. <i>Current Alzheimer Research</i> , 2010 , 7, 487-505	3	280
531	Fast Local Algorithms for Large Scale Nonnegative Matrix and Tensor Factorizations. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , 2009 , E92-A, 708-721	9.4	251
530	Adaptive blind signal processing-neural network approaches. <i>Proceedings of the IEEE</i> , 1998 , 86, 2026-2048	4.3	249
529	Frequency recognition in SSVEP-based BCI using multiset canonical correlation analysis. <i>International Journal of Neural Systems</i> , 2014 , 24, 1450013	6.2	238
528	Analysis of sparse representation and blind source separation. <i>Neural Computation</i> , 2004 , 16, 1193-234	2.9	215
527	Sparse component analysis and blind source separation of underdetermined mixtures. <i>IEEE Transactions on Neural Networks</i> , 2005 , 16, 992-6		211
526	Families of Alpha- Beta- and Gamma- Divergences: Flexible and Robust Measures of Similarities. <i>Entropy</i> , 2010 , 12, 1532-1568	2.8	208
525	EmotionMeter: A Multimodal Framework for Recognizing Human Emotions. <i>IEEE Transactions on Cybernetics</i> , 2019 , 49, 1110-1122	10.2	198
524	Stability Analysis of Learning Algorithms for Blind Source Separation. <i>Neural Networks</i> , 1997 , 10, 1345-1351	3.51	192
523	Underdetermined blind source separation based on sparse representation. <i>IEEE Transactions on Signal Processing</i> , 2006 , 54, 423-437	4.8	192
522	Sparse Bayesian Classification of EEG for Brain-Computer Interface. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2016 , 27, 2256-2267	10.3	171

521	L1-regularized Multiway canonical correlation analysis for SSVEP-based BCI. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2013 , 21, 887-96	4.8	168
520	Optimizing spatial patterns with sparse filter bands for motor-imagery based brain-computer interface. <i>Journal of Neuroscience Methods</i> , 2015 , 255, 85-91	3	167
519	Multi-kernel extreme learning machine for EEG classification in brain-computer interfaces. <i>Expert Systems With Applications</i> , 2018 , 96, 302-310	7.8	155
518	Tensor Networks for Dimensionality Reduction and Large-scale Optimization: Part 1 Low-Rank Tensor Decompositions. <i>Foundations and Trends in Machine Learning</i> , 2016 , 9, 249-429	32.9	151
517	Extraction of specific signals with temporal structure. <i>Neural Computation</i> , 2001 , 13, 1995-2003	2.9	138
516	Symmetric nonnegative matrix factorization: algorithms and applications to probabilistic clustering. <i>IEEE Transactions on Neural Networks</i> , 2011 , 22, 2117-31		135
515	Robust neural networks with on-line learning for blind identification and blind separation of sources. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , 1996 , 43, 894-906		135
514	Temporally Constrained Sparse Group Spatial Patterns for Motor Imagery BCI. <i>IEEE Transactions on Cybernetics</i> , 2019 , 49, 3322-3332	10.2	134
513	Correlation-based channel selection and regularized feature optimization for MI-based BCI. <i>Neural Networks</i> , 2019 , 118, 262-270	9.1	127
512	Robust learning algorithm for blind separation of signals. <i>Electronics Letters</i> , 1994 , 30, 1386-1387	1.1	127
511	A novel EOG/EEG hybrid human-machine interface adopting eye movements and ERPs: application to robot control. <i>IEEE Transactions on Biomedical Engineering</i> , 2015 , 62, 876-89	5	125
510	Fast Nonnegative Matrix/Tensor Factorization Based on Low-Rank Approximation. <i>IEEE Transactions on Signal Processing</i> , 2012 , 60, 2928-2940	4.8	125
509	Hierarchical ALS Algorithms for Nonnegative Matrix and 3D Tensor Factorization 2007 , 169-176		125
508	Smooth PARAFAC Decomposition for Tensor Completion. <i>IEEE Transactions on Signal Processing</i> , 2016 , 64, 5423-5436	4.8	124
507	Spatial-temporal discriminant analysis for ERP-based brain-computer interface. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2013 , 21, 233-43	4.8	124
506	Higher order partial least squares (HOPLS): a generalized multilinear regression method. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2013 , 35, 1660-73	13.3	124
505	Optimization of SSVEP brain responses with application to eight-command Brain-Computer Interface. <i>Neuroscience Letters</i> , 2010 , 469, 34-8	3.3	124
504	Kernel PCA for Feature Extraction and De-Noising in Nonlinear Regression. <i>Neural Computing and Applications</i> , 2001 , 10, 231-243	4.8	124

503	. <i>Proceedings of the IEEE</i> , 2016 , 104, 310-331	14.3	121
502	Generalized Alpha-Beta Divergences and Their Application to Robust Nonnegative Matrix Factorization. <i>Entropy</i> , 2011 , 13, 134-170	2.8	121
501	Tensor decompositions for feature extraction and classification of high dimensional datasets. <i>Nonlinear Theory and Its Applications IEICE</i> , 2010 , 1, 37-68	0.6	121
500	Bayesian Robust Tensor Factorization for Incomplete Multiway Data. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2016 , 27, 736-48	10.3	115
499	A novel BCI based on ERP components sensitive to configural processing of human faces. <i>Journal of Neural Engineering</i> , 2012 , 9, 026018	5	115
498	Cortical functional connectivity networks in normal and spinal cord injured patients: Evaluation by graph analysis. <i>Human Brain Mapping</i> , 2007 , 28, 1334-46	5.9	112
497	Fully online multicommand brain-computer interface with visual neurofeedback using SSVEP paradigm. <i>Computational Intelligence and Neuroscience</i> , 2007 , 2007, 94561	3	112
496	Blind noise reduction for multisensory signals using ICA and subspace filtering, with application to EEG analysis. <i>Biological Cybernetics</i> , 2002 , 86, 293-303	2.8	112
495	Csiszár Divergences for Non-negative Matrix Factorization: Family of New Algorithms. <i>Lecture Notes in Computer Science</i> , 2006 , 32-39	0.9	111
494	Detecting the number of clusters in n-way probabilistic clustering. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2010 , 32, 2006-21	13.3	108
493	Information-theoretic approach to blind separation of sources in non-linear mixture. <i>Signal Processing</i> , 1998 , 64, 291-300	4.4	107
492	Sparse Group Representation Model for Motor Imagery EEG Classification. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2019 , 23, 631-641	7.2	107
491	The changing face of P300 BCIs: a comparison of stimulus changes in a P300 BCI involving faces, emotion, and movement. <i>PLoS ONE</i> , 2012 , 7, e49688	3.7	106
490	Robust whitening procedure in blind source separation context. <i>Electronics Letters</i> , 2000 , 36, 2050	1.1	105
489	. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , 1992 , 39, 124-138		105
488	EEG filtering based on blind source separation (BSS) for early detection of Alzheimer's disease. <i>Clinical Neurophysiology</i> , 2005 , 116, 729-37	4.3	103
487	Total Variation Regularized Tensor RPCA for Background Subtraction From Compressive Measurements. <i>IEEE Transactions on Image Processing</i> , 2016 , 25, 4075-90	8.7	102
486	Group Component Analysis for Multiblock Data: Common and Individual Feature Extraction. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2016 , 27, 2426-2439	10.3	102

485	Computing sparse representations of multidimensional signals using Kronecker bases. <i>Neural Computation</i> , 2013 , 25, 186-220	2.9	101
484	Discriminative Feature Extraction via Multivariate Linear Regression for SSVEP-Based BCI. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2016 , 24, 532-41	4.8	99
483	Towards correlation-based time window selection method for motor imagery BCIs. <i>Neural Networks</i> , 2018 , 102, 87-95	9.1	98
482	A P300 brain-computer interface based on a modification of the mismatch negativity paradigm. <i>International Journal of Neural Systems</i> , 2015 , 25, 1550011	6.2	97
481	Slowing and Loss of Complexity in Alzheimer's EEG: Two Sides of the Same Coin?. <i>International Journal of Alzheimeris Disease</i> , 2011 , 2011, 539621	3.7	96
480	An ERP-based BCI using an oddball paradigm with different faces and reduced errors in critical functions. <i>International Journal of Neural Systems</i> , 2014 , 24, 1450027	6.2	94
479	Feature learning from incomplete EEG with denoising autoencoder. <i>Neurocomputing</i> , 2015 , 165, 23-31	5.4	91
478	Nonnegative Matrix and Tensor Factorization [Lecture Notes]. <i>IEEE Signal Processing Magazine</i> , 2008 , 25, 142-145	9.4	91
477	Non-negative matrix factorization with ϵ -divergence. <i>Pattern Recognition Letters</i> , 2008 , 29, 1433-1440	4.7	90
476	Nonnegative tensor factorization for continuous EEG classification. <i>International Journal of Neural Systems</i> , 2007 , 17, 305-17	6.2	89
475	Noninvasive BCIs: Multiway Signal-Processing Array Decompositions. <i>Computer</i> , 2008 , 41, 34-42	1.6	87
474	MULTISCALE ENTROPY ANALYSIS OF EEG FROM PATIENTS UNDER DIFFERENT PATHOLOGICAL CONDITIONS. <i>Fractals</i> , 2007 , 15, 399-404	3.2	87
473	Generalizing the column-row matrix decomposition to multi-way arrays. <i>Linear Algebra and Its Applications</i> , 2010 , 433, 557-573	0.9	86
472	Efficient Nonnegative Tucker Decompositions: Algorithms and Uniqueness. <i>IEEE Transactions on Image Processing</i> , 2015 , 24, 4990-5003	8.7	85
471	Flexible Independent Component Analysis. <i>Journal of Signal Processing Systems</i> , 2000 , 26, 25-38		83
470	SSVEP recognition using common feature analysis in brain-computer interface. <i>Journal of Neuroscience Methods</i> , 2015 , 244, 8-15	3	76
469	Removal of ballistocardiogram artifacts from simultaneously recorded EEG and fMRI data using independent component analysis. <i>IEEE Transactions on Biomedical Engineering</i> , 2006 , 53, 1294-308	5	76
468	Aggregation of sparse linear discriminant analyses for event-related potential classification in brain-computer interface. <i>International Journal of Neural Systems</i> , 2014 , 24, 1450003	6.2	75

467	Tensor Networks for Dimensionality Reduction and Large-scale Optimization: Part 2 Applications and Future Perspectives. <i>Foundations and Trends in Machine Learning</i> , 2017 , 9, 249-429	32.9	74
466	Natural gradient algorithm for blind separation of overdetermined mixture with additive noise. <i>IEEE Signal Processing Letters</i> , 1999 , 6, 293-295	3.2	73
465	Fast Alternating LS Algorithms for High Order CANDECOMP/PARAFAC Tensor Factorizations. <i>IEEE Transactions on Signal Processing</i> , 2013 , 61, 4834-4846	4.8	71
464	PARAFAC algorithms for large-scale problems. <i>Neurocomputing</i> , 2011 , 74, 1970-1984	5.4	70
463	Internal Feature Selection Method of CSP Based on L1-Norm and Dempster-Shafer Theory. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2021 , 32, 4814-4825	10.3	70
462	Bimodal BCI using simultaneously NIRS and EEG. <i>IEEE Transactions on Biomedical Engineering</i> , 2014 , 61, 1274-84	5	68
461	Nonnegative Matrix and Tensor Factorizations : An algorithmic perspective. <i>IEEE Signal Processing Magazine</i> , 2014 , 31, 54-65	9.4	68
460	Canonical Polyadic Decomposition Based on a Single Mode Blind Source Separation. <i>IEEE Signal Processing Letters</i> , 2012 , 19, 523-526	3.2	68
459	Multilayer nonnegative matrix factorisation. <i>Electronics Letters</i> , 2006 , 42, 947	1.1	68
458	Improved SFFS method for channel selection in motor imagery based BCI. <i>Neurocomputing</i> , 2016 , 207, 519-527	5.4	67
457	Equivariant nonstationary source separation. <i>Neural Networks</i> , 2002 , 15, 121-30	9.1	66
456	Low Complexity Damped Gauss–Newton Algorithms for CANDECOMP/PARAFAC. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2013 , 34, 126-147	1.5	65
455	From blind signal extraction to blind instantaneous signal separation: criteria, algorithms, and stability. <i>IEEE Transactions on Neural Networks</i> , 2004 , 15, 859-73		65
454	Multway Canonical Correlation Analysis for Frequency Components Recognition in SSVEP-Based BCIs. <i>Lecture Notes in Computer Science</i> , 2011 , 287-295	0.9	64
453	An optimized ERP brain-computer interface based on facial expression changes. <i>Journal of Neural Engineering</i> , 2014 , 11, 036004	5	63
452	Sequential blind signal extraction in order specified by stochastic properties. <i>Electronics Letters</i> , 1997 , 33, 64	1.1	63
451	The Study of Generic Model Set for Reducing Calibration Time in P300-Based Brain-Computer Interface. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2020 , 28, 3-12	4.8	63
450	A Minor Component Analysis Algorithm. <i>Neural Networks</i> , 1997 , 10, 291-297	9.1	62

449	Blind separation of nonstationary sources in noisy mixtures. <i>Electronics Letters</i> , 2000 , 36, 848	1.1	62
448	Nonholonomic orthogonal learning algorithms for blind source separation. <i>Neural Computation</i> , 2000 , 12, 1463-84	2.9	61
447	Nonnegative matrix factorization with constrained second-order optimization. <i>Signal Processing</i> , 2007 , 87, 1904-1916	4.4	60
446	Neural networks for blind separation with unknown number of sources. <i>Neurocomputing</i> , 1999 , 24, 55-93	3.4	60
445	Enhanced Motor Imagery Training Using a Hybrid BCI With Feedback. <i>IEEE Transactions on Biomedical Engineering</i> , 2015 , 62, 1706-17	5	59
444	Second Order Nonstationary Source Separation. <i>Journal of Signal Processing Systems</i> , 2002 , 32, 93-104		59
443	Two Efficient Algorithms for Approximately Orthogonal Nonnegative Matrix Factorization. <i>IEEE Signal Processing Letters</i> , 2015 , 22, 843-846	3.2	58
442	Multilayer nonnegative matrix factorization using projected gradient approaches. <i>International Journal of Neural Systems</i> , 2007 , 17, 431-46	6.2	58
441	Smooth nonnegative matrix and tensor factorizations for robust multi-way data analysis. <i>Signal Processing</i> , 2015 , 113, 234-249	4.4	57
440	GOM-Face: GKP, EOG, and EMG-based multimodal interface with application to humanoid robot control. <i>IEEE Transactions on Biomedical Engineering</i> , 2014 , 61, 453-62	5	57
439	EEG-based asynchronous BCI control of a car in 3D virtual reality environments. <i>Science Bulletin</i> , 2009 , 54, 78-87		57
438	Robust techniques for independent component analysis (ICA) with noisy data. <i>Neurocomputing</i> , 1998 , 22, 113-129	5.4	57
437	EEG paroxysmal gamma waves during Bhramari Pranayama: a yoga breathing technique. <i>Consciousness and Cognition</i> , 2009 , 18, 977-88	2.6	56
436	Multi-domain feature extraction for small event-related potentials through nonnegative multi-way array decomposition from low dense array EEG. <i>International Journal of Neural Systems</i> , 2013 , 23, 1350006	6.2	52
435	Multidimensional compressed sensing and their applications. <i>Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery</i> , 2013 , 3, 355-380	6.9	50
434	K-hyperline clustering learning for sparse component analysis. <i>Signal Processing</i> , 2009 , 89, 1011-1022	4.4	50
433	Convolutional Blind Source Separation in the Frequency Domain Based on Sparse Representation. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2007 , 15, 1551-1563		50
432	Multway array decomposition analysis of EEGs in Alzheimer's disease. <i>Journal of Neuroscience Methods</i> , 2012 , 207, 41-50	3	47

- 431 Extended HALS algorithm for nonnegative Tucker decomposition and its applications for multiway analysis and classification. *Neurocomputing*, **2011**, 74, 1956-1969 5.4 47
- 430 Neural networks for blind decorrelation of signals. *IEEE Transactions on Signal Processing*, **1997**, 45, 2829-2842 4.8 47
- 429 An improved P300 pattern in BCI to catch user's attention. *Journal of Neural Engineering*, **2017**, 14, 036001 4.6
- 428 Kernelization of Tensor-Based Models for Multiway Data Analysis: Processing of Multidimensional Structured Data. *IEEE Signal Processing Magazine*, **2013**, 30, 137-148 9.4 46
- 427 EMD APPROACH TO MULTICHANNEL EEG DATA THE AMPLITUDE AND PHASE COMPONENTS CLUSTERING ANALYSIS. *Journal of Circuits, Systems and Computers*, **2010**, 19, 215-229 0.9 45
- 426 A Multiplicative Algorithm for Convolutional Non-Negative Matrix Factorization Based on Squared Euclidean Distance. *IEEE Transactions on Signal Processing*, **2009**, 57, 2858-2864 4.8 45
- 425 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 6.2 44
- 424 Neural networks for computing eigenvalues and eigenvectors. *Biological Cybernetics*, **1992**, 68, 155-164 2.8 44
- 423 Sparse Bayesian multiway canonical correlation analysis for EEG pattern recognition. *Neurocomputing*, **2017**, 225, 103-110 5.4 43
- 422 Information geometry of divergence functions. *Bulletin of the Polish Academy of Sciences: Technical Sciences*, **2010**, 58, 183-195 4.2
- 421 Individual Classification of Emotions Using EEG. *Journal of Biomedical Science and Engineering*, **2014**, 07, 604-620 0.7 42
- 420 Bispectrum-Based Channel Selection for Motor Imagery Based Brain-Computer Interfacing. *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, **2020**, 28, 2153-2163 4.8 42
- 419 Fast nonnegative tensor factorization based on accelerated proximal gradient and low-rank approximation. *Neurocomputing*, **2016**, 198, 148-154 5.4 38
- 418 Improved M-FOCUSS Algorithm With Overlapping Blocks for Locally Smooth Sparse Signals. *IEEE Transactions on Signal Processing*, **2008**, 56, 4752-4761 4.8 38
- 417 Non-negative Matrix Factorization with Orthogonality Constraints and its Application to Raman Spectroscopy. *Journal of Signal Processing Systems*, **2007**, 48, 83-97 3.8
- 416 An empirical EEG analysis in brain death diagnosis for adults. *Cognitive Neurodynamics*, **2008**, 2, 257-71 4.2 38
- 415 Blind estimation of channel parameters and source components for EEG signals: a sparse factorization approach. *IEEE Transactions on Neural Networks*, **2006**, 17, 419-31 3.7
- 414 A robust approach to independent component analysis of signals with high-level noise measurements. *IEEE Transactions on Neural Networks*, **2003**, 14, 631-45 3.7

413	On-line Algorithm for Blind Signal Extraction of Arbitrarily Distributed, but Temporally Correlated Sources Using Second Order Statistics 2000 , 12, 91-98		37
412	An iterative inversion approach to blind source separation. <i>IEEE Transactions on Neural Networks</i> , 2000 , 11, 1423-37		37
411	Non-negative Matrix Factorization with Quasi-Newton Optimization. <i>Lecture Notes in Computer Science</i> , 2006 , 870-879	0.9	37
410	Kernel nonnegative matrix factorization for spectral EEG feature extraction. <i>Neurocomputing</i> , 2009 , 72, 3182-3190	5.4	36
409	Non-Negative Tensor Factorization using Alpha and Beta Divergences 2007 ,		36
408	. <i>IEEE Transactions on Power Systems</i> , 1994 , 9, 612-618	7	36
407	On neural blind separation with noise suppression and redundancy reduction. <i>International Journal of Neural Systems</i> , 1997 , 8, 219-37	6.2	35
406	Self-adaptive blind source separation based on activation functions adaptation. <i>IEEE Transactions on Neural Networks</i> , 2004 , 15, 233-44		35
405	Extended SMART Algorithms for Non-negative Matrix Factorization. <i>Lecture Notes in Computer Science</i> , 2006 , 548-562	0.9	35
404	Whether generic model works for rapid ERP-based BCI calibration. <i>Journal of Neuroscience Methods</i> , 2013 , 212, 94-9	3	34
403	Improved FOCUSS Method With Conjugate Gradient Iterations. <i>IEEE Transactions on Signal Processing</i> , 2009 , 57, 399-404	4.8	34
402	Independent component analysis for unaveraged single-trial MEG data decomposition and single-dipole source localization. <i>Neurocomputing</i> , 2002 , 49, 255-277	5.4	34
401	Robust blind source separation algorithms using cumulants. <i>Neurocomputing</i> , 2002 , 49, 87-118	5.4	34
400	Near-lossless multichannel EEG compression based on matrix and tensor decompositions. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2013 , 17, 708-14	7.2	33
399	Extracting information from cortical connectivity patterns estimated from high resolution EEG recordings: a theoretical graph approach. <i>Brain Topography</i> , 2007 , 19, 125-36	4.3	33
398	An Optimized Channel Selection Method Based on Multifrequency CSP-Rank for Motor Imagery-Based BCI System. <i>Computational Intelligence and Neuroscience</i> , 2019 , 2019, 8068357	3	32
397	Analysis and online realization of the CCA approach for blind source separation. <i>IEEE Transactions on Neural Networks</i> , 2007 , 18, 1505-10		32
396	Stable, Robust, and Super Fast Reconstruction of Tensors Using Multi-Way Projections. <i>IEEE Transactions on Signal Processing</i> , 2015 , 63, 780-793	4.8	31

395	Emotional faces boost up steady-state visual responses for brain-computer interface. <i>NeuroReport</i> , 2011 , 22, 121-5	1.7	31
394	Complex Blind Source Extraction From Noisy Mixtures Using Second-Order Statistics. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2010 , 57, 1404-1416	3.9	31
393	Techniques for early detection of Alzheimer's disease using spontaneous EEG recordings. <i>Physiological Measurement</i> , 2007 , 28, 335-47	2.9	31
392	CANDECOMP/PARAFAC Decomposition of High-Order Tensors Through Tensor Reshaping. <i>IEEE Transactions on Signal Processing</i> , 2013 , 61, 4847-4860	4.8	30
391	. <i>IEEE Transactions on Circuits and Systems Part 2: Express Briefs</i> , 1992 , 39, 619-633		30
390	Log-Determinant Divergences Revisited: Alpha-Beta and Gamma Log-Det Divergences. <i>Entropy</i> , 2015 , 17, 2988-3034	2.8	29
389	A hybrid feature selection approach for the early diagnosis of Alzheimer's disease. <i>Journal of Neural Engineering</i> , 2015 , 12, 016018	5	29
388	Nonnegative matrix factorization with quadratic programming. <i>Neurocomputing</i> , 2008 , 71, 2309-2320	5.4	29
387	Fast nonnegative matrix factorization algorithms using projected gradient approaches for large-scale problems. <i>Computational Intelligence and Neuroscience</i> , 2008 , 2008, 939567	3	29
386	Blind Second-Order Source Extraction of Instantaneous Noisy Mixtures. <i>IEEE Transactions on Circuits and Systems Part 2: Express Briefs</i> , 2006 , 53, 931-935		28
385	On a new blind signal extraction algorithm: different criteria and stability analysis. <i>IEEE Signal Processing Letters</i> , 2002 , 9, 233-236	3.2	28
384	A new nonlinear similarity measure for multichannel signals. <i>Neural Networks</i> , 2008 , 21, 222-31	9.1	27
383	Regularized Alternating Least Squares Algorithms for Non-negative Matrix/Tensor Factorization. <i>Lecture Notes in Computer Science</i> , 2007 , 793-802	0.9	27
382	EEG synchrony analysis for early diagnosis of Alzheimer's disease: a study with several synchrony measures and EEG data sets. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2009 , 2009, 2224-7	0.9	26
381	. <i>IEEE Transactions on Signal Processing</i> , 2006 , 54, 1028-1040	4.8	26
380	A common neural-network model for unsupervised exploratory data analysis and independent component analysis. <i>IEEE Transactions on Neural Networks</i> , 1998 , 9, 1495-501		26
379	A survey of the dummy face and human face stimuli used in BCI paradigm. <i>Journal of Neuroscience Methods</i> , 2015 , 239, 18-27	3	25
378	Validating rationale of group-level component analysis based on estimating number of sources in EEG through model order selection. <i>Journal of Neuroscience Methods</i> , 2013 , 212, 165-72	3	25

377	Multichannel EEG brain activity pattern analysis in time-frequency domain with nonnegative matrix factorization support. <i>International Congress Series</i> , 2007 , 1301, 266-269		25
376	Blind source extraction based on a linear predictor. <i>IET Signal Processing</i> , 2007 , 1, 29-34	1.7	25
375	. <i>IEEE Transactions on Cognitive and Developmental Systems</i> , 2016 , 8, 298-308	3	25
374	Regularized Group Sparse Discriminant Analysis for P300-Based Brain-Computer Interface. <i>International Journal of Neural Systems</i> , 2019 , 29, 1950002	6.2	25
373	Neural networks for computing best rank-one approximations of tensors and its applications. <i>Neurocomputing</i> , 2017 , 267, 114-133	5.4	24
372	Flexible HALS algorithms for sparse non-negative matrix/tensor factorization 2008 ,		24
371	Probability estimation for recoverability analysis of blind source separation based on sparse representation. <i>IEEE Transactions on Information Theory</i> , 2006 , 52, 3139-3152	2.8	24
370	Simplified neural networks for solving linear least squares and total least squares problems in real time. <i>IEEE Transactions on Neural Networks</i> , 1994 , 5, 910-23		24
369	Neural networks for solving linear inequality systems. <i>Parallel Computing</i> , 1997 , 22, 1455-1475	1	23
368	EEG windowed statistical wavelet scoring for evaluation and discrimination of muscular artifacts. <i>Physiological Measurement</i> , 2008 , 29, 1435-52	2.9	23
367	. <i>IEEE Transactions on Signal Processing</i> , 2007 , 55, 962-977	4.8	23
366	Estimate of causality between independent cortical spatial patterns during movement volition in spinal cord injured patients. <i>Brain Topography</i> , 2007 , 19, 107-23	4.3	23
365	Second-order statistics based blind source separation using a bank of subband filters 2003 , 13, 252-274		23
364	Neural network for singular value decomposition. <i>Electronics Letters</i> , 1992 , 28, 784	1.1	23
363	Optimization of EEG frequency bands for improved diagnosis of Alzheimer disease. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2011 , 2011, 6087-91	0.9	22
362	Block sparse representations of tensors using Kronecker bases 2012 ,		22
361	A note on Lewicki-Sejnowski gradient for learning overcomplete representations. <i>Neural Computation</i> , 2008 , 20, 636-43	2.9	22
360	A new neural network for solving linear programming problems. <i>European Journal of Operational Research</i> , 1996 , 93, 244-256	5.6	22

359	New learning algorithm for blind separation of sources. <i>Electronics Letters</i> , 1992 , 28, 1986	1.1	22
358	Efficient representations of EEG signals for SSVEP frequency recognition based on deep multiset CCA. <i>Neurocomputing</i> , 2020 , 378, 36-44	5.4	22
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