Andrzej Cichocki

List of Publications by Year in Descending Order

538 papers	**18,797** citations	**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	Multi-view optimization of time-frequency common spatial patterns for brain-computer interfaces. *Journal of Neuroscience Methods*, **2022**, 365, 109378	3	3
537	S3LRR: A Unified Model for Joint Discriminative Subspace Identification and Semi-supervised EEG Emotion Recognition. *IEEE Transactions on Instrumentation and Measurement*, **2022**, 1-1	5.2	1
536	Data augmentation for Convolutional LSTM based brain computer interface system. *Applied Soft Computing Journal*, **2022**, 108811	7.5	0
535	Bispectrum-based Hybrid Neural Network for Motor Imagery Classification.. *Journal of Neuroscience Methods*, **2022**, 109593	3	0
534	OGSSL: A Semi-Supervised Classification Model Coupled With Optimal Graph Learning for EEG Emotion Recognition.. *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, **2022**, 30, 1288-1297	4.8	1
533	Evoked Response Potentials **2022**, 2475-2478		
532	A Novel Classification Framework Using the Graph Representations of Electroencephalogram for Motor Imagery based Brain-Computer Interface.. *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, **2021**, PP,	4.8	7
531	Cross Tensor Approximation Methods for Compression and Dimensionality Reduction. *IEEE Access*, **2021**, 1-1	3.5	0
530	Bicriteria Sparse Nonnegative Matrix Factorization via Two-Timescale Duplex Neurodynamic Optimization. *IEEE Transactions on Neural Networks and Learning Systems*, **2021**, PP,	10.3	8
529	Robust Similarity Measurement Based on a Novel Time Filter for SSVEPs Detection. *IEEE Transactions on Neural Networks and Learning Systems*, **2021**, PP,	10.3	14
528	. *IEEE Transactions on Instrumentation and Measurement*, **2021**, 1-1	5.2	2
527	Randomized algorithms for fast computation of low rank tensor ring model. *Machine Learning: Science and Technology*, **2021**, 2, 011001	5.1	4
526	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	10.3	70
525	Krylov-Levenberg-Marquardt Algorithm for Structured Tucker Tensor Decompositions. *IEEE Journal on Selected Topics in Signal Processing*, **2021**, 15, 550-559	7.5	3
524	Adaptive Rank Selection for Tensor Ring Decomposition. *IEEE Journal on Selected Topics in Signal Processing*, **2021**, 15, 454-463	7.5	3
523	Measures of resting state EEG rhythms for clinical trials in Alzheimer's disease: Recommendations of an expert panel. *Alzheimeris and Dementia*, **2021**, 17, 1528-1553	1.2	12
522	Matrix and tensor completion using tensor ring decomposition with sparse representation. *Machine Learning: Science and Technology*, **2021**, 2, 035008	5.1	2

521	Optimization of Model Training Based on Iterative Minimum Covariance Determinant In Motor-Imagery BCI. *International Journal of Neural Systems*, **2021**, 31, 2150030	6.2	12
520	MERACLE: Constructive Layer-Wise Conversion of a Tensor Train into a MERA. *Communications on Applied Mathematics and Computation*, **2021**, 3, 257-279	0.9	
519	Deep Learning in EEG: Advance of the Last Ten-Year Critical Period. *IEEE Transactions on Cognitive and Developmental Systems*, **2021**, 1-1	3	11
518	. *IEEE Access*, **2021**, 9, 28684-28706	3.5	7
517	The Influence of Visual Attention on The Performance of A Novel Tactile P300 Brain-Computer Interface with Cheeks-Stim Paradigm. *International Journal of Neural Systems*, **2021**, 31, 2150004	6.2	5
516	Effects of Skin Friction on Tactile P300 Brain-Computer Interface Performance. *Computational Intelligence and Neuroscience*, **2021**, 2021, 6694310	3	1
515	Future Trends for Human-AI Collaboration: A Comprehensive Taxonomy of AI/AGI Using Multiple Intelligences and Learning Styles. *Computational Intelligence and Neuroscience*, **2021**, 2021, 1-21	3	4
514	Evaluation of color modulation in visual P300-speller using new stimulus patterns. *Cognitive Neurodynamics*, **2021**, 15, 873-886	4.2	3
513	On the robustness of EEG tensor completion methods. *Science China Technological Sciences*, **2021**, 64, 1828-1842	3.5	1
512	Feature Selection Combining Filter and Wrapper Methods for Motor-Imagery Based Brain-Computer Interfaces. *International Journal of Neural Systems*, **2021**, 31, 2150040	6.2	3
511	Image Completion in Embedded Space Using Multistage Tensor Ring Decomposition. *Frontiers in Artificial Intelligence*, **2021**, 4, 687176	3	0
510	Enhancing P300 based character recognition performance using a combination of ensemble classifiers and a fuzzy fusion method. *Journal of Neuroscience Methods*, **2021**, 362, 109300	3	0
509	. *IEEE Access*, **2021**, 9, 3165-3173	3.5	0
508	. *IEEE Transactions on Cognitive and Developmental Systems*, **2021**, 1-1	3	10
507	Learning Common Time-Frequency-Spatial Patterns for Motor Imagery Classification. *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, **2021**, 29, 699-707	4.8	16
506	Feature selection method based on Menger curvature and LDA theory for a P300 brain-computer interface.. *Journal of Neural Engineering*, **2021**,	5	1
505	Matrix and Tensor Completion in Multiway Delay Embedded Space Using Tensor Train, With Application to Signal Reconstruction. *IEEE Signal Processing Letters*, **2020**, 27, 810-814	3.2	9
504	Joint Semi-Supervised Feature Auto-Weighting and Classification Model for EEG-Based Cross-Subject Sleep Quality Evaluation **2020**,		3

503	Tensor Networks for Latent Variable Analysis: Novel Algorithms for Tensor Train Approximation. *IEEE Transactions on Neural Networks and Learning Systems*, **2020**, 31, 4622-4636	10.3	9
502	Effects of Visual Attention on Tactile P300 BCI. *Computational Intelligence and Neuroscience*, **2020**, 2020, 6549189	3	2
501	Comparison of the ERP-Based BCI Performance Among Chromatic (RGB) Semitransparent Face Patterns. *Frontiers in Neuroscience*, **2020**, 14, 54	5.1	10
500	Multiband entropy-based feature-extraction method for automatic identification of epileptic focus based on high-frequency components in interictal iEEG. *Scientific Reports*, **2020**, 10, 7044	4.9	14
499	Canonical polyadic decomposition (CPD) of big tensors with low multilinear rank. *Multimedia Tools and Applications*, **2020**, 80, 22987	2.5	1
498	Multikernel Capsule Network for Schizophrenia Identification. *IEEE Transactions on Cybernetics*, **2020**, PP,	10.2	7
497	Stable Low-Rank Tensor Decomposition for Compression of Convolutional Neural Network. *Lecture Notes in Computer Science*, **2020**, 522-539	0.9	12
496	Novel hybrid brain-computer interface system based on motor imagery and P300. *Cognitive Neurodynamics*, **2020**, 14, 253-265	4.2	17
495	Face Representations via Tensorfaces of Various Complexities. *Neural Computation*, **2020**, 32, 281-329	2.9	1
494	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	4.8	63
493	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	4.8	16
492	A joint optimization framework to semi-supervised RVFL and ELM networks for efficient data classification. *Applied Soft Computing Journal*, **2020**, 97, 106756	7.5	14
491	Weighted Krylov-Levenberg-Marquardt Method for Canonical Polyadic Tensor Decomposition **2020**,		1
490	Block Hankel Tensor ARIMA for Multiple Short Time Series Forecasting. *Proceedings of the AAAI Conference on Artificial Intelligence*, **2020**, 34, 5758-5766	5	15
489	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
488	BCI-Based Rehabilitation on the Stroke in Sequela Stage. *Neural Plasticity*, **2020**, 2020, 8882764	3.3	8
487	Quadratic programming over ellipsoids with applications to constrained linear regression and tensor decomposition. *Neural Computing and Applications*, **2020**, 32, 7097-7120	4.8	3
486	Tensor Networks for Latent Variable Analysis: Higher Order Canonical Polyadic Decomposition. *IEEE Transactions on Neural Networks and Learning Systems*, **2020**, 31, 2174-2188	10.3	3

485	Efficient representations of EEG signals for SSVEP frequency recognition based on deep multiset CCA. *Neurocomputing*, **2020**, 378, 36-44	5.4	22
484	Manifold Modeling in Embedded Space: An Interpretable Alternative to Deep Image Prior. *IEEE Transactions on Neural Networks and Learning Systems*, **2020**, PP,	10.3	6
483	Learning Efficient Tensor Representations with Ring-structured Networks **2019**,		19
482	Sensitivity in Tensor Decomposition. *IEEE Signal Processing Letters*, **2019**, 26, 1653-1657	3.2	3
481	An Optimized Channel Selection Method Based on Multifrequency CSP-Rank for Motor Imagery-Based BCI System. *Computational Intelligence and Neuroscience*, **2019**, 2019, 8068357	3	32
480	Joint Structured Graph Learning and Clustering Based on Concept Factorization **2019**,		2
479	Flexible Non-negative Matrix Factorization with Adaptively Learned Graph Regularization **2019**,		3
478	A Hybrid System for Distinguishing between Brain Death and Coma Using Diverse EEG Features. *Sensors*, **2019**, 19,	3.8	6
477	Effect of a combination of flip and zooming stimuli on the performance of a visual brain-computer interface for spelling. *Biomedizinische Technik*, **2019**, 64, 29-38	1.3	3
476	Temporally Constrained Sparse Group Spatial Patterns for Motor Imagery BCI. *IEEE Transactions on Cybernetics*, **2019**, 49, 3322-3332	10.2	134
475	Joint Structured Graph Learning and Unsupervised Feature Selection **2019**,		1
474	Correlation-based channel selection and regularized feature optimization for MI-based BCI. *Neural Networks*, **2019**, 118, 262-270	9.1	127
473	Error Preserving Correction: A Method for CP Decomposition at a Target Error Bound. *IEEE Transactions on Signal Processing*, **2019**, 67, 1175-1190	4.8	11
472	Regularized Group Sparse Discriminant Analysis for P300-Based Brain-Computer Interface. *International Journal of Neural Systems*, **2019**, 29, 1950002	6.2	25
471	EmotionMeter: A Multimodal Framework for Recognizing Human Emotions. *IEEE Transactions on Cybernetics*, **2019**, 49, 1110-1122	10.2	198
470	Sparse Group Representation Model for Motor Imagery EEG Classification. *IEEE Journal of Biomedical and Health Informatics*, **2019**, 23, 631-641	7.2	107
469	Towards correlation-based time window selection method for motor imagery BCIs. *Neural Networks*, **2018**, 102, 87-95	9.1	98
468	Whole Brain fMRI Pattern Analysis Based on Tensor Neural Network. *IEEE Access*, **2018**, 6, 29297-29305	3.5	10

467	Fundamental tensor operations for large-scale data analysis using tensor network formats. *Multidimensional Systems and Signal Processing*, **2018**, 29, 921-960	1.8	19
466	The Effects of Audiovisual Inputs on Solving the Cocktail Party Problem in the Human Brain: An fMRI Study. *Cerebral Cortex*, **2018**, 28, 3623-3637	5.1	12
465	Tensor Networks for Dimensionality Reduction, Big Data and Deep Learning. *Studies in Computational Intelligence*, **2018**, 3-49	0.8	5
464	Information Theoretic Approaches for Motor-Imagery BCI Systems: Review and Experimental Comparison. *Entropy*, **2018**, 20,	2.8	15
463	Multi-kernel extreme learning machine for EEG classification in brain-computer interfaces. *Expert Systems With Applications*, **2018**, 96, 302-310	7.8	155
462	Task-Independent EEG Identification via Low-Rank Matrix Decomposition **2018**,		3
461	Medical Image De-noising Using Deep Networks **2018**,		2
460	Learning the Hierarchical Parts of Objects by Deep Non-Smooth Nonnegative Matrix Factorization. *IEEE Access*, **2018**, 6, 58096-58105	3.5	14
459	A Robust PCA Approach With Noise Structure Learning and Spatial–Spectral Low-Rank Modeling for Hyperspectral Image Restoration. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2018**, 11, 3863-3879	4.7	14
458	Canonical Polyadic Decomposition With Auxiliary Information for Brain-Computer Interface. *IEEE Journal of Biomedical and Health Informatics*, **2017**, 21, 263-271	7.2	13
457	Rate of Convergence of the FOCUSS Algorithm. *IEEE Transactions on Neural Networks and Learning Systems*, **2017**, 28, 1276-1289	10.3	5
456	Blind Source Separation of Single Channel Mixture Using Tensorization and Tensor Diagonalization. *Lecture Notes in Computer Science*, **2017**, 36-46	0.9	2
455	An improved P300 pattern in BCI to catch user's attention. *Journal of Neural Engineering*, **2017**, 14, 036001		46
454	Neural networks for computing best rank-one approximations of tensors and its applications. *Neurocomputing*, **2017**, 267, 114-133	5.4	24
453	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	32.9	74
452	Non-orthogonal tensor diagonalization. *Signal Processing*, **2017**, 138, 313-320	4.4	6
451	Numerical CP decomposition of some difficult tensors. *Journal of Computational and Applied Mathematics*, **2017**, 317, 362-370	2.4	12
450	Partitioned Hierarchical alternating least squares algorithm for CP tensor decomposition **2017**,		2

449	Sparse Bayesian multiway canonical correlation analysis for EEG pattern recognition. *Neurocomputing*, **2017**, 225, 103-110	5.4	43
448	An augmented Lagrangian algorithm for decomposition of symmetric tensors of order-4 **2017**,		1
447	Optimization of Alpha-Beta Log-Det Divergences and their Application in the Spatial Filtering of Two Class Motor Imagery Movements. *Entropy*, **2017**, 19, 89	2.8	14
446	A New Generation of Brain-Computer Interfaces Driven by Discovery of Latent EEG-fMRI Linkages Using Tensor Decomposition. *Frontiers in Neuroscience*, **2017**, 11, 246	5.1	16
445	Smooth PARAFAC Decomposition for Tensor Completion. *IEEE Transactions on Signal Processing*, **2016**, 64, 5423-5436	4.8	124
444	Nonnegative Tensor Train Decompositions for Multi-domain Feature Extraction and Clustering. *Lecture Notes in Computer Science*, **2016**, 87-95	0.9	6
443	Tensor completion via functional smooth component deflation **2016**,		6
442	Regularized Computation of Approximate Pseudoinverse of Large Matrices Using Low-Rank Tensor Train Decompositions. *SIAM Journal on Matrix Analysis and Applications*, **2016**, 37, 598-623	1.5	15
441	Removal of EEG artifacts for BCI applications using fully Bayesian tensor completion **2016**,		9
440	Total Variation Regularized Tensor RPCA for Background Subtraction From Compressive Measurements. *IEEE Transactions on Image Processing*, **2016**, 25, 4075-90	8.7	102
439	An exploration of spatial auditory BCI paradigms with different sounds: music notes versus beeps. *Cognitive Neurodynamics*, **2016**, 10, 201-9	4.2	10
438	Fast nonnegative tensor factorization based on accelerated proximal gradient and low-rank approximation. *Neurocomputing*, **2016**, 198, 148-154	5.4	38
437	Biomedical Signal Processing: From a Conceptual Framework to Clinical Applications [Scanning the Issue]. *Proceedings of the IEEE*, **2016**, 104, 220-222	14.3	8
436	Discriminative Feature Extraction via Multivariate Linear Regression for SSVEP-Based BCI. *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, **2016**, 24, 532-41	4.8	99
435	. *Proceedings of the IEEE*, **2016**, 104, 310-331	14.3	121
434	Bayesian Robust Tensor Factorization for Incomplete Multiway Data. *IEEE Transactions on Neural Networks and Learning Systems*, **2016**, 27, 736-48	10.3	115
433	Sparse Bayesian Classification of EEG for Brain-Computer Interface. *IEEE Transactions on Neural Networks and Learning Systems*, **2016**, 27, 2256-2267	10.3	171
432	Group Component Analysis for Multiblock Data: Common and Individual Feature Extraction. *IEEE Transactions on Neural Networks and Learning Systems*, **2016**, 27, 2426-2439	10.3	102

431	A Six-Step Framework on Biomedical Signal Analysis for Tackling Noncommunicable Diseases: Current and Future Perspectives. *JMIR Biomedical Engineering*, **2016**, 1, e1	1.3	15
430	Usefulness of Quasi-L1 Norm-Based Nonnegative Matrix Factorization Algorithm to Estimate Background Signal using Environmental Electromagnetic Field Measurements at ELF Band. *IEEJ Transactions on Fundamentals and Materials*, **2016**, 136, 241-251	0.2	2
429	Exploring Combinations of Different Color and Facial Expression Stimuli for Gaze-Independent BCIs. *Frontiers in Computational Neuroscience*, **2016**, 10, 5	3.5	10
428	Effects of Background Music on Objective and Subjective Performance Measures in an Auditory BCI. *Frontiers in Computational Neuroscience*, **2016**, 10, 105	3.5	11
427	Optimizing the Face Paradigm of BCI System by Modified Mismatch Negative Paradigm. *Frontiers in Neuroscience*, **2016**, 10, 444	5.1	8
426	Partitioned Alternating Least Squares Technique for Canonical Polyadic Tensor Decomposition. *IEEE Signal Processing Letters*, **2016**, 23, 993-997	3.2	8
425	**2016**,		5
424	. *IEEE Transactions on Cognitive and Developmental Systems*, **2016**, 8, 298-308	3	25
423	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	32.9	151
422	Improved SFFS method for channel selection in motor imagery based BCI. *Neurocomputing*, **2016**, 207, 519-527	5.4	67
421	The Uncinate Fasciculus as a Predictor of Conversion from Amnestic Mild Cognitive Impairment to Alzheimer Disease. *Journal of Neuroimaging*, **2015**, 25, 748-53	2.8	20
420	Convergence analysis of the FOCUSS algorithm. *IEEE Transactions on Neural Networks and Learning Systems*, **2015**, 26, 601-13	10.3	13
419	Feature learning from incomplete EEG with denoising autoencoder. *Neurocomputing*, **2015**, 165, 23-31	5.4	91
418	A Contrast Function Based on Generalized Divergences for Solving the Permutation Problem in Convolved Speech Mixtures. *IEEE/ACM Transactions on Audio Speech and Language Processing*, **2015**, 23, 1713-1726	3.6	8
417	Estimating a Few Extreme Singular Values and Vectors for Large-Scale Matrices in Tensor Train Format. *SIAM Journal on Matrix Analysis and Applications*, **2015**, 36, 994-1014	1.5	17
416	A P300 brain-computer interface based on a modification of the mismatch negativity paradigm. *International Journal of Neural Systems*, **2015**, 25, 1550011	6.2	97
415	Image Classification with Nonnegative Matrix Factorization Based on Spectral Projected Gradient. *Springer Series in Bio-/neuroinformatics*, **2015**, 31-50		5
414	Common components analysis via linked blind source separation **2015**,		3

413	Efficient Nonnegative Tucker Decompositions: Algorithms and Uniqueness. *IEEE Transactions on Image Processing*, **2015**, 24, 4990-5003	8.7	85
412	Tensor Deflation for CANDECOMP/PARAFAC.Part I: Alternating Subspace Update Algorithm. *IEEE Transactions on Signal Processing*, **2015**, 63, 5924-5938	4.8	12
411	Optimizing spatial patterns with sparse filter bands for motor-imagery based brain-computer interface. *Journal of Neuroscience Methods*, **2015**, 255, 85-91	3	167
410	EEG Correlates of Voice and Face Emotional Judgments in the Human Brain. *Cognitive Computation*, **2015**, 7, 11-19	4.4	4
409	SSVEP recognition using common feature analysis in brain-computer interface. *Journal of Neuroscience Methods*, **2015**, 244, 8-15	3	76
408	A survey of the dummy face and human face stimuli used in BCI paradigm. *Journal of Neuroscience Methods*, **2015**, 239, 18-27	3	25
407	A theta-band EEG based index for early diagnosis of Alzheimer's disease. *Journal of Alzheimeris Disease*, **2015**, 43, 1175-84	4.3	16
406	A fast automatic low-rank determination algorithm for noisy matrix completion **2015**,		4
405	Methods for transition toward computer assisted cognitive examination. *Methods of Information in Medicine*, **2015**, 54, 256-61	1.5	1
404	Log-Determinant Divergences Revisited: Alpha-Beta and Gamma Log-Det Divergences. *Entropy*, **2015**, 17, 2988-3034	2.8	29
403	Low rank tensor deconvolution **2015**,		4
402	Epileptic EEG visualization and sonification based on linear discriminate analysis. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2015**, 2015, 4466-9	0.9	3
401	Tensor Deflation for CANDECOMP/PARAFAC.Part II: Initialization and Error Analysis. *IEEE Transactions on Signal Processing*, **2015**, 63, 5939-5950	4.8	5
400	Stable, Robust, and Super Fast Reconstruction of Tensors Using Multi-Way Projections. *IEEE Transactions on Signal Processing*, **2015**, 63, 780-793	4.8	31
399	Tensor Decompositions for Signal Processing Applications: From two-way to multiway component analysis. *IEEE Signal Processing Magazine*, **2015**, 32, 145-163	9.4	635
398	Two Efficient Algorithms for Approximately Orthogonal Nonnegative Matrix Factorization. *IEEE Signal Processing Letters*, **2015**, 22, 843-846	3.2	58
397	Smooth nonnegative matrix and tensor factorizations for robust multi-way data analysis. *Signal Processing*, **2015**, 113, 234-249	4.4	57
396	Enhanced Motor Imagery Training Using a Hybrid BCI With Feedback. *IEEE Transactions on Biomedical Engineering*, **2015**, 62, 1706-17	5	59

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395	Bayesian CP Factorization of Incomplete Tensors with Automatic Rank Determination. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2015**, 37, 1751-63	13.3	314
394	A hybrid feature selection approach for the early diagnosis of Alzheimer's disease. *Journal of Neural Engineering*, **2015**, 12, 016018	5	29
393	A novel EOG/EEG hybrid human-machine interface adopting eye movements and ERPs: application to robot control. *IEEE Transactions on Biomedical Engineering*, **2015**, 62, 876-89	5	125
392	Rank Splitting for CANDECOMP/PARAFAC. *Lecture Notes in Computer Science*, **2015**, 31-40	0.9	1
391	Unsupervised Learning Algorithms and Latent Variable Models: PCA/SVD, CCA/PLS, ICA, NMF, etc.. *Academic Press Library in Signal Processing*, **2014**, 1, 1151-1238		1
390	Multifactor sparse feature extraction using Convolutive Nonnegative Tucker Decomposition. *Neurocomputing*, **2014**, 129, 17-24	5.4	9
389	Bimodal BCI using simultaneously NIRS and EEG. *IEEE Transactions on Biomedical Engineering*, **2014**, 61, 1274-84	5	68
388	An optimized ERP brain-computer interface based on facial expression changes. *Journal of Neural Engineering*, **2014**, 11, 036004	5	63
387	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	6.2	94
386	Frequency recognition in SSVEP-based BCI using multiset canonical correlation analysis. *International Journal of Neural Systems*, **2014**, 24, 1450013	6.2	238
385	Low-rank approximation based non-negative multi-way array decomposition on event-related potentials. *International Journal of Neural Systems*, **2014**, 24, 1440005	6.2	19
384	Aggregation of sparse linear discriminant analyses for event-related potential classification in brain-computer interface. *International Journal of Neural Systems*, **2014**, 24, 1450003	6.2	75
383	**2014**,		2
382	Multi-tensor completion for estimating missing values in video data **2014**,		2
381	Extracting commuting patterns in railway networks through matrix decompositions **2014**,		3
380	Predicting traffic speed in urban transportation subnetworks for multiple horizons **2014**,		11
379	On Fast algorithms for orthogonal Tucker decomposition **2014**,		13
378	Deflation method for CANDECOMP/PARAFAC tensor decomposition **2014**,		3

377	Tensor-variate Gaussian processes regression and its application to video surveillance **2014**,		9
376	Multilinear and nonlinear generalizations of partial least squares: an overview of recent advances. *Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery*, **2014**, 4, 104-115	6.9	5
375	Hybrid-BCI: Classification of auditory and visual related potentials **2014**,		7
374	Cyborg Intelligence: Towards Bio-Machine Intelligent Systems. *IEEE Intelligent Systems*, **2014**, 29, 2-4	4.2	7
373	Revising algorithm for nonnegative matrix factorization based on minimizing quasi-L1 norm **2014**,		4
372	Multilinear tensor rank estimation via Sparse Tucker Decomposition **2014**,		9
371	GOM-Face: GKP, EOG, and EMG-based multimodal interface with application to humanoid robot control. *IEEE Transactions on Biomedical Engineering*, **2014**, 61, 453-62	5	57
370	Source Separation and Applications [From the Guest Editors]. *IEEE Signal Processing Magazine*, **2014**, 31, 16-17	9.4	7
369	Nonnegative Matrix and Tensor Factorizations : An algorithmic perspective. *IEEE Signal Processing Magazine*, **2014**, 31, 54-65	9.4	68
368	Individual Classification of Emotions Using EEG. *Journal of Biomedical Science and Engineering*, **2014**, 07, 604-620	0.7	42
367	Big Data Matrix Singular Value Decomposition Based on Low-Rank Tensor Train Decomposition. *Lecture Notes in Computer Science*, **2014**, 121-130	0.9	2
366	Fast Nonnegative Tensor Factorization by Using Accelerated Proximal Gradient. *Lecture Notes in Computer Science*, **2014**, 459-468	0.9	4
365	Deep Learning of Multifractal Attributes from Motor Imagery Induced EEG. *Lecture Notes in Computer Science*, **2014**, 503-510	0.9	19
364	Linked Tucker2 Decomposition for Flexible Multi-block Data Analysis. *Lecture Notes in Computer Science*, **2014**, 111-118	0.9	3
363	B-Spline Smoothing of Feature Vectors in Nonnegative Matrix Factorization. *Lecture Notes in Computer Science*, **2014**, 72-81	0.9	3
362	From Auditory and Visual to Immersive Neurofeedback: Application to Diagnosis of Alzheimers Disease **2014**, 63-97		4
361	Spatial-temporal discriminant analysis for ERP-based brain-computer interface. *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, **2013**, 21, 233-43	4.8	124
360	A Two-Stage MMSE Beamformer for Underdetermined Signal Separation. *IEEE Signal Processing Letters*, **2013**, 20, 1227-1230	3.2	11

| 359 | Higher order partial least squares (HOPLS): a generalized multilinear regression method. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2013**, 35, 1660-73 | 13.3 | 124 |

| 358 | Patients' consciousness analysis using dynamic approximate entropy and MEMD method **2013**, | | 3 |

| 357 | Multidimensional compressed sensing and their applications. *Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery*, **2013**, 3, 355-380 | 6.9 | 50 |

| 356 | Fast Alternating LS Algorithms for High Order CANDECOMP/PARAFAC Tensor Factorizations. *IEEE Transactions on Signal Processing*, **2013**, 61, 4834-4846 | 4.8 | 71 |

| 355 | Computing sparse representations of multidimensional signals using Kronecker bases. *Neural Computation*, **2013**, 25, 186-220 | 2.9 | 101 |

| 354 | Noninvasive diagnosis of melanoma with tensor decomposition-based feature extraction from clinical color image. *Biomedical Signal Processing and Control*, **2013**, 8, 755-763 | 4.9 | 8 |

| 353 | Advances in Electroencephalography Signal Processing [Life Sciences]. *IEEE Signal Processing Magazine*, **2013**, 30, 170-176 | 9.4 | 10 |

| 352 | Whether generic model works for rapid ERP-based BCI calibration. *Journal of Neuroscience Methods*, **2013**, 212, 94-9 | 3 | 34 |

| 351 | 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, 165-72 | 3 | 25 |

| 350 | Common spatial patterns for steady-state somatosensory evoked potentials. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2013**, 2013, 2255-8 | 0.9 | 4 |

| 349 | EOG/ERP hybrid human-machine interface for robot control **2013**, | | 2 |

| 348 | Near-lossless multichannel EEG compression based on matrix and tensor decompositions. *IEEE Journal of Biomedical and Health Informatics*, **2013**, 17, 708-14 | 7.2 | 33 |

| 347 | CANDECOMP/PARAFAC Decomposition of High-Order Tensors Through Tensor Reshaping. *IEEE Transactions on Signal Processing*, **2013**, 61, 4847-4860 | 4.8 | 30 |

| 346 | 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 | 6.2 | 52 |

| 345 | Non-Linear Canonical Correlation Analysis Using Alpha-Beta Divergence. *Entropy*, **2013**, 15, 2788-2804 | 2.8 | 11 |

| 344 | L1-regularized Multiway canonical correlation analysis for SSVEP-based BCI. *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, **2013**, 21, 887-96 | 4.8 | 168 |

| 343 | Kernel-based tensor partial least squares for reconstruction of limb movements **2013**, | | 4 |

| 342 | Tensor completion throughmultiple Kronecker product decomposition **2013**, | | 5 |

341	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
340	Low Complexity Damped Gauss--Newton Algorithms for CANDECOMP/PARAFAC. *SIAM Journal on Matrix Analysis and Applications*, **2013**, 34, 126-147	1.5	65
339	A further improvement of a fast damped Gauss-Newton algorithm for candecomp-parafac tensor decomposition **2013**,		9
338	A greedy algorithm for model selection of tensor decompositions **2013**,		4
337	Accelerated canonical polyadic decomposition using mode reduction. *IEEE Transactions on Neural Networks and Learning Systems*, **2013**, 24, 2051-62	10.3	13
336	From basis components to complex structural patterns **2013**,		6
335	An Affective BCI Using Multiple ERP Components Associated to Facial Emotion Processing. *Springer Briefs in Electrical and Computer Engineering*, **2013**, 61-72	0.4	4
334	GNMF with Newton-Based Methods. *Lecture Notes in Computer Science*, **2013**, 90-97	0.9	1
333	Real-Time Wireless Sonification of Brain Signals **2013**, 175-181		2
332	Spectral Power Estimation for Unevenly Spaced Motor Imagery Data. *Lecture Notes in Computer Science*, **2013**, 168-175	0.9	1
331	Multiway array decomposition analysis of EEGs in Alzheimer's disease. *Journal of Neuroscience Methods*, **2012**, 207, 41-50	3	47
330	Tongue-rudder: a glossokinetic-potential-based tongue-machine interface. *IEEE Transactions on Biomedical Engineering*, **2012**, 59, 290-9	5	20
329	Tensor classification for P300-based brain computer interface **2012**,		7
328	Canonical Polyadic Decomposition: From 3-way to N-Way **2012**,		2
327	A novel BCI based on ERP components sensitive to configural processing of human faces. *Journal of Neural Engineering*, **2012**, 9, 026018	5	115
326	Sequential nonnegative tucker decomposition on multi-way array of time-frequency transformed event-related potentials **2012**,		2
325	**2012**,		1
324	Fast and unique Tucker decompositions via multiway blind source separation. *Bulletin of the Polish Academy of Sciences: Technical Sciences*, **2012**, 60, 389-405		12

323	Canonical Polyadic Decomposition Based on a Single Mode Blind Source Separation. *IEEE Signal Processing Letters*, **2012**, 19, 523-526	3.2	68
322	Linked PARAFAC/CP Tensor Decomposition and Its Fast Implementation for Multi-block Tensor Analysis. *Lecture Notes in Computer Science*, **2012**, 84-91	0.9	14
321	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	3.7	106
320	Diagnosis of Alzheimer's disease from EEG by means of synchrony measures in optimized frequency bands. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2012**, 2012, 4266-70	0.9	18
319	Seeking an appropriate alternative least squares algorithm for nonnegative tensor factorizations. *Neural Computing and Applications*, **2012**, 21, 623-637	4.8	6
318	Non-linear filter based outer product expansion with reference signal for EEG analysis **2012**,		1
317	Regularized CSP with Fisher's criterion to improve classification of single-trial ERPs for BCI **2012**,		4
316	Low-rank blind nonnegative matrix deconvolution **2012**,		3
315	Quantifying statistical interdependence, part III: N > 2 point processes. *Neural Computation*, **2012**, 24, 408-54	2.9	6
314	Regularization using geometric information between sensors capturing features from brain signals **2012**,		2
313	Block sparse representations of tensors using Kronecker bases **2012**,		22
312	Fast Nonnegative Matrix/Tensor Factorization Based on Low-Rank Approximation. *IEEE Transactions on Signal Processing*, **2012**, 60, 2928-2940	4.8	125
311	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
310	Audio representations of multi-channel EEG: a new tool for diagnosis of brain disorders. *American Journal of Neurodegenerative Disease*, **2012**, 1, 292-304	2.5	4
309	On Revealing Replicating Structures in Multiway Data: A Novel Tensor Decomposition Approach. *Lecture Notes in Computer Science*, **2012**, 297-305	0.9	10
308	Multi-domain Feature of Event-Related Potential Extracted by Nonnegative Tensor Factorization: 5 vs. 14 Electrodes EEG Data. *Lecture Notes in Computer Science*, **2012**, 502-510	0.9	6
307	Feature Extraction by Nonnegative Tucker Decomposition from EEG Data Including Testing and Training Observations. *Lecture Notes in Computer Science*, **2012**, 166-173	0.9	2
306	Inferring Brain Networks through Graphical Models with Hidden Variables. *Lecture Notes in Computer Science*, **2012**, 194-201	0.9	8

305	On Connection between the Convolutive and Ordinary Nonnegative Matrix Factorizations. *Lecture Notes in Computer Science*, **2012**, 288-296	0.9	2
304	On the Early Diagnosis of Alzheimer's Disease from EEG Signals: A Mini-Review **2011**, 709-716		13
303	A Novel Oddball Paradigm for Affective BCIs Using Emotional Faces as Stimuli. *Lecture Notes in Computer Science*, **2011**, 279-286	0.9	5
302	Symmetric nonnegative matrix factorization: algorithms and applications to probabilistic clustering. *IEEE Transactions on Neural Networks*, **2011**, 22, 2117-31		135
301	Rational variety mapping for contrast-enhanced nonlinear unsupervised segmentation of multispectral images of unstained specimen. *American Journal of Pathology*, **2011**, 179, 547-54	5.8	7
300	Improving the specificity of EEG for diagnosing Alzheimer's disease. *International Journal of Alzheimeris Disease*, **2011**, 2011, 259069	3.7	10
299	Slowing and Loss of Complexity in Alzheimer's EEG: Two Sides of the Same Coin?. *International Journal of Alzheimeris Disease*, **2011**, 2011, 539621	3.7	96
298	Emotional faces boost up steady-state visual responses for brain-computer interface. *NeuroReport*, **2011**, 22, 121-5	1.7	31
297	Comment on Blind source separation based on endpoint estimation with applications to the MLSP 2006 data competition *Neurocomputing*, **2011**, 74, 863-865	5.4	
296	Interactive component extraction from fEEG, fNIRS and peripheral biosignals for affective brain machine interfacing paradigms. *Computers in Human Behavior*, **2011**, 27, 1512-1518	7.7	9
295	Emotional empathy transition patterns from human brain responses in interactive communication situations. *AI and Society*, **2011**, 26, 301-315	2.1	0
294	Determining the number of sources in high-density EEG recordings of event-related potentials by model order selection **2011**,		2
293	Multi-channel EEG compression based on matrix and tensor decompositions **2011**,		13
292	Damped Gauss-Newton algorithm for nonnegative Tucker decomposition **2011**,		6
291	PARAFAC algorithms for large-scale problems. *Neurocomputing*, **2011**, 74, 1970-1984	5.4	70
290	Extended HALS algorithm for nonnegative Tucker decomposition and its applications for multiway analysis and classification. *Neurocomputing*, **2011**, 74, 1956-1969	5.4	47
289	Kurtosis-based blind source extraction of complex non-circular signals with application in EEG artifact removal in real-time. *Frontiers in Neuroscience*, **2011**, 5, 105	5.1	16
288	Novel hierarchical ALS algorithm for nonnegative tensor factorization **2011**,		1

287	Optimization of EEG frequency bands for improved diagnosis of Alzheimer disease. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2011**, 2011, 6087-91	0.9	22
286	Fast damped gauss-newton algorithm for sparse and nonnegative tensor factorization **2011**,		11
285	EEG auditory steady state responses classification for the novel BCI. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2011**, 2011, 4576-9	0.9	15
284	Analysis of environmental electromagnetic signal using nonnegative Matrix Factorization minimizing quasi-L1 norm **2011**,		3
283	Generalized Alpha-Beta Divergences and Their Application to Robust Nonnegative Matrix Factorization. *Entropy*, **2011**, 13, 134-170	2.8	121
282	Multiway Canonical Correlation Analysis for Frequency Components Recognition in SSVEP-Based BCIs. *Lecture Notes in Computer Science*, **2011**, 287-295	0.9	64
281	Suitable ICA Algorithm for Extracting Saccade-Related EEG Signals **2011**, 689-693		
280	Towards Affective BCI/BMI Paradigms ⬭Analysis of fEEG and fNIRS Brain Responses to Emotional Speech and Facial Videos **2011**, 671-675		
279	Modeling Transient Oscillations in the EEG of Patients with Mild Cognitive Impairment **2011**, 723-727		
278	Imagery Movement Paradigm User Adaptation Improvement with Quasi-movements Phenomenon **2011**, 677-681		
277	A Two Stage Algorithm for K-Mode Convolutive Nonnegative Tucker Decomposition. *Lecture Notes in Computer Science*, **2011**, 663-670	0.9	
276	Research on Relationship between Saccadic Eye Movements and EEG Signals in the Case of Free Movements and Cued Movements. *Lecture Notes in Computer Science*, **2011**, 322-328	0.9	
275	Blind extraction of global signal from multi-channel noisy observations. *IEEE Transactions on Neural Networks*, **2010**, 21, 1472-81		12
274	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
273	Diagnosis of Alzheimer's disease from EEG signals: where are we standing?. *Current Alzheimer Research*, **2010**, 7, 487-505	3	280
272	Families of Alpha- Beta- and Gamma- Divergences: Flexible and Robust Measures of Similarities. *Entropy*, **2010**, 12, 1532-1568	2.8	208
271	Information geometry of divergence functions. *Bulletin of the Polish Academy of Sciences: Technical Sciences*, **2010**, 58, 183-195		42
270	Optimization of SSVEP brain responses with application to eight-command Brain-Computer Interface. *Neuroscience Letters*, **2010**, 469, 34-8	3.3	124

269	Steady-state visually evoked potentials: focus on essential paradigms and future perspectives. *Progress in Neurobiology*, **2010**, 90, 418-38	10.9	651
268	A comparative study of synchrony measures for the early diagnosis of Alzheimer's disease based on EEG. *NeuroImage*, **2010**, 49, 668-93	7.9	297
267	Detecting the number of clusters in n-way probabilistic clustering. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2010**, 32, 2006-21	13.3	108
266	Complex Blind Source Extraction From Noisy Mixtures Using Second-Order Statistics. *IEEE Transactions on Circuits and Systems I: Regular Papers*, **2010**, 57, 1404-1416	3.9	31
265	A tensorial approach to single trial recognition for Brain Computer Interface **2010**,		1
264	Classification of scenes based on multiway feature extraction **2010**,		1
263	Tensor decompositions for feature extraction and classification of high dimensional datasets. *Nonlinear Theory and Its Applications IEICE*, **2010**, 1, 37-68	0.6	121
262	Generalized optimal spatial filtering using a kernel approach with application to EEG classification. *Cognitive Neurodynamics*, **2010**, 4, 355-8	4.2	16
261	Generalizing the column-row matrix decomposition to multi-way arrays. *Linear Algebra and Its Applications*, **2010**, 433, 557-573	0.9	86
260	Sequential Coordinate-Wise DNMF for Face Recognition. *Lecture Notes in Computer Science*, **2010**, 563-570	0.9	1
259	Extract Mismatch Negativity and P3a through Two-Dimensional Nonnegative Decomposition on Time-Frequency Represented Event-Related Potentials. *Lecture Notes in Computer Science*, **2010**, 385-391	0.9	2
258	Nonlinear Band Expansion and 3D Nonnegative Tensor Factorization for Blind Decomposition of Magnetic Resonance Image of the Brain. *Lecture Notes in Computer Science*, **2010**, 490-497	0.9	1
257	Classifying Healthy Children and Children with Attention Deficit through Features Derived from Sparse and Nonnegative Tensor Factorization Using Event-Related Potential. *Lecture Notes in Computer Science*, **2010**, 620-628	0.9	5
256	Tensor Based Simultaneous Feature Extraction and Sample Weighting for EEG Classification. *Lecture Notes in Computer Science*, **2010**, 26-33	0.9	4
255	Novel Alternating Least Squares Algorithm for Nonnegative Matrix and Tensor Factorizations. *Lecture Notes in Computer Science*, **2010**, 262-269	0.9	2
254	A Tongue-Machine Interface: Detection of Tongue Positions by Glossokinetic Potentials. *Lecture Notes in Computer Science*, **2010**, 34-41	0.9	1
253	Research on Relationship between Saccade-Related EEG Signals and Selection of Electrode Position by Independent Component Analysis. *Lecture Notes in Computer Science*, **2010**, 74-81	0.9	
252	Robust Channel Identification Using FOCUSS Method. *Lecture Notes in Electrical Engineering*, **2010**, 471-477	1.1	

251	Quantifying statistical interdependence by message passing on graphs-part II: multidimensional point processes. *Neural Computation*, **2009**, 21, 2203-68	2.9	17
250	EEG synchrony analysis for early diagnosis of Alzheimer's disease: a study with several synchrony measures and EEG data sets. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2009**, 2009, 2224-7	0.9	26
249	Block decomposition for very large-scale nonnegative tensor factorization **2009**,		7
248	Quantifying statistical interdependence by message passing on graphs-part I: one-dimensional point processes. *Neural Computation*, **2009**, 21, 2152-202	2.9	18
247	Estimation of sparse nonnegative sources from noisy overcomplete mixtures using MAP. *Neural Computation*, **2009**, 21, 3487-518	2.9	10
246	Efficient method for Tucker3 model selection. *Electronics Letters*, **2009**, 45, 805	1.1	12
245	Single-class SVM and directed transfer function approach to the localization of the region containing epileptic focus. *Neurocomputing*, **2009**, 72, 1575-1583	5.4	16
244	Kernel nonnegative matrix factorization for spectral EEG feature extraction. *Neurocomputing*, **2009**, 72, 3182-3190	5.4	36
243	Bump time-frequency toolbox: a toolbox for time-frequency oscillatory bursts extraction in electrophysiological signals. *BMC Neuroscience*, **2009**, 10, 46	3.2	20
242	Blind decomposition of low-dimensional multi-spectral image by sparse component analysis. *Journal of Chemometrics*, **2009**, 23, 590-597	1.6	9
241	EEG paroxysmal gamma waves during Bhramari Pranayama: a yoga breathing technique. *Consciousness and Cognition*, **2009**, 18, 977-88	2.6	56
240	EEG-based asynchronous BCI control of a car in 3D virtual reality environments. *Science Bulletin*, **2009**, 54, 78-87		57
239	On the synchrony of steady state visual evoked potentials and oscillatory burst events. *Cognitive Neurodynamics*, **2009**, 3, 251-61	4.2	16
238	K-hyperline clustering learning for sparse component analysis. *Signal Processing*, **2009**, 89, 1011-1022	4.4	50
237	Blind decomposition of infrared spectra using flexible component analysis. *Chemometrics and Intelligent Laboratory Systems*, **2009**, 97, 170-178	3.8	4
236	Blind multispectral image decomposition by 3D nonnegative tensor factorization. *Optics Letters*, **2009**, 34, 2210-2	3	9
235	Improved FOCUSS Method With Conjugate Gradient Iterations. *IEEE Transactions on Signal Processing*, **2009**, 57, 399-404	4.8	34
234	A Multiplicative Algorithm for Convolutive Non-Negative Matrix Factorization Based on Squared Euclidean Distance. *IEEE Transactions on Signal Processing*, **2009**, 57, 2858-2864	4.8	45

215	Noninvasive BCIs: Multiway Signal-Processing Array Decompositions. *Computer*, **2008**, 41, 34-42	1.6	87
214	Nonnegative matrix factorization with quadratic programming. *Neurocomputing*, **2008**, 71, 2309-2320	5.4	29
213	Sparse blind identification and separation by using adaptive K-orthodrome clustering. *Neurocomputing*, **2008**, 71, 2321-2329	5.4	5
212	Effectiveness of global signal elimination from environmental electromagnetic signals for earthquake prediction **2008**,		1
211	Equivalence probability and sparsity of two sparse solutions in sparse representation. *IEEE Transactions on Neural Networks*, **2008**, 19, 2009-21		18
210	Fast and Efficient Algorithms for Nonnegative Tucker Decomposition. *Lecture Notes in Computer Science*, **2008**, 772-782	0.9	11
209	When is non-negative matrix decomposition unique? **2008**,		5
208	Nonnegative Matrix and Tensor Factorization [Lecture Notes]. *IEEE Signal Processing Magazine*, **2008**, 25, 142-145	9.4	91
207	Flexible HALS algorithms for sparse non-negative matrix/tensor factorization **2008**,		24
206	Blind Source Separation Based on Generalised Canonical Correlation Analysis and Its Adaptive Realization **2008**,		5
205	Improved M-FOCUSS Algorithm With Overlapping Blocks for Locally Smooth Sparse Signals. *IEEE Transactions on Signal Processing*, **2008**, 56, 4752-4761	4.8	38
204	Simple and efficient algorithm for distributed compressed sensing **2008**,		3
203	Incremental Common Spatial Pattern algorithm for BCI **2008**,		6
202	Improvement of Earthquake Prediction by using Global Signal Elimination from Environmental Electromagnetic Signals **2008**,		2
201	Nonnegative Tucker decomposition with alpha-divergence **2008**,		18
200	EEG windowed statistical wavelet scoring for evaluation and discrimination of muscular artifacts. *Physiological Measurement*, **2008**, 29, 1435-52	2.9	23
199	A note on Lewicki-Sejnowski gradient for learning overcomplete representations. *Neural Computation*, **2008**, 20, 636-43	2.9	22
198	Fast nonnegative matrix factorization algorithms using projected gradient approaches for large-scale problems. *Computational Intelligence and Neuroscience*, **2008**, 2008, 939567	3	29

197	Tomographic image reconstruction from limited-view projections with Wiener filtered focuss algorithm **2008**,		2
196	. *Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing*, **2008**,	1.6	1
195	A dual-linear predictor approach to blind source extraction for noisy mixtures **2008**,		2
194	An empirical EEG analysis in brain death diagnosis for adults. *Cognitive Neurodynamics*, **2008**, 2, 257-71	4.2	38
193	Split-test Bonferroni correction for QEEG statistical maps. *Biological Cybernetics*, **2008**, 98, 295-303	2.8	19
192	Non-negative matrix factorization with divergence. *Pattern Recognition Letters*, **2008**, 29, 1433-1440	4.7	90
191	A new nonlinear similarity measure for multichannel signals. *Neural Networks*, **2008**, 21, 222-31	9.1	27
190	Emotional States Estimation from Multichannel EEG Maps **2008**, 695-698		5
189	Multi-Command Real-Time Brain Machine Interface Using SSVEP: Feasibility Study for Occipital and Forehead Sensor Locations **2008**, 783-786		1
188	A Comparative Study of Synchrony Measures for the Early Detection of Alzheimer Disease Based on EEG. *Lecture Notes in Computer Science*, **2008**, 112-125	0.9	2
187	EMD Approach to Multichannel EEG Data - The Amplitude and Phase Synchrony Analysis Technique. *Lecture Notes in Computer Science*, **2008**, 122-129	0.9	6
186	CG-M-FOCUSS and Its Application to Distributed Compressed Sensing. *Lecture Notes in Computer Science*, **2008**, 237-245	0.9	8
185	Information Fusion for Perceptual Feedback: A Brain Activity Sonification Approach **2008**, 261-273		5
184	Ocular Artifacts Removal from EEG Using EMD **2008**, 831-835		15
183	Oscillatory Event Synchrony During Steady State Visual Evoked Potentials **2008**, 439-442		2
182	Blind Image Separation Using Nonnegative Matrix Factorization with Gibbs Smoothing. *Lecture Notes in Computer Science*, **2007**, 519-528	0.9	11
181	Signal Modality Characterisation of EEG with Response to Steady-State Auditory and Visual BCI Paradigms. *IEEE International Workshop on Machine Learning for Signal Processing*, **2007**,		2
180	A Novel Measure for Synchrony and its Application to Neural Signals **2007**,		4

179	. *IEEE Transactions on Signal Processing*, **2007**, 55, 962-977	4.8	23
178	An Efficient K-Hyperplane Clustering Algorithm and Its Application to Sparse Component Analysis. *Lecture Notes in Computer Science*, **2007**, 1032-1041	0.9	3
177	Cortical functional connectivity networks in normal and spinal cord injured patients: Evaluation by graph analysis. *Human Brain Mapping*, **2007**, 28, 1334-46	5.9	112
176	Bayesian estimation of the number of principal components. *Signal Processing*, **2007**, 87, 562-568	4.4	17
175	Nonnegative matrix factorization with constrained second-order optimization. *Signal Processing*, **2007**, 87, 1904-1916	4.4	60
174	Convolutive Blind Source Separation in the Frequency Domain Based on Sparse Representation. *IEEE Transactions on Audio Speech and Language Processing*, **2007**, 15, 1551-1563		50
173	Non-negative Matrix Factorization with Orthogonality Constraints and its Application to Raman Spectroscopy. *Journal of Signal Processing Systems*, **2007**, 48, 83-97		38
172	Estimate of causality between independent cortical spatial patterns during movement volition in spinal cord injured patients. *Brain Topography*, **2007**, 19, 107-23	4.3	23
171	Extracting information from cortical connectivity patterns estimated from high resolution EEG recordings: a theoretical graph approach. *Brain Topography*, **2007**, 19, 125-36	4.3	33
170	Algorithms with high order convergence speed for blind source extraction. *Computational Optimization and Applications*, **2007**, 38, 123-131	1.4	3
169	Multilayer nonnegative matrix factorization using projected gradient approaches. *International Journal of Neural Systems*, **2007**, 17, 431-46	6.2	58
168	Fully online multicommand brain-computer interface with visual neurofeedback using SSVEP paradigm. *Computational Intelligence and Neuroscience*, **2007**, 2007, 94561	3	112
167	Research for estimating direction of saccadic eye movements by single trial processing. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society*, **2007**, 2007, 4723-6		6
166	Nonnegative tensor factorization for continuous EEG classification. *International Journal of Neural Systems*, **2007**, 17, 305-17	6.2	89
165	A New Nonlinear Similarity Measure for Multichannel Biological Signals. *Neural Networks (IJCNN), International Joint Conference on*, **2007**,		6
164	Hierarchical ALS Algorithms for Nonnegative Matrix and 3D Tensor Factorization **2007**, 169-176		125
163	Non-Negative Tensor Factorization using Alpha and Beta Divergences **2007**,		36
162	Statistical modeling and analysis of laser-evoked potentials of electrocorticogram recordings from awake humans. *Computational Intelligence and Neuroscience*, **2007**, 2007, 10479	3	8

161	MULTISCALE ENTROPY ANALYSIS OF EEG FROM PATIENTS UNDER DIFFERENT PATHOLOGICAL CONDITIONS. *Fractals*, **2007**, 15, 399-404	3.2	87
160	Extraction of steady state visually evoked potential signal and estimation of distribution map from EEG data. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society*, **2007**, 2007, 5449-52		3
159	Single trial analysis on saccade-related EEG signal **2007**,		1
158	Novel Multi-layer Non-negative Tensor Factorization with Sparsity Constraints. *Lecture Notes in Computer Science*, **2007**, 271-280	0.9	18
157	Regularized Alternating Least Squares Algorithms for Non-negative Matrix/Tensor Factorization. *Lecture Notes in Computer Science*, **2007**, 793-802	0.9	27
156	Relationship between saccade to EEG signals in time-frequency domain **2007**,		1
155	Sparse Component Analysis: a New Tool for Data Mining. *Springer Optimization and Its Applications*, **2007**, 91-116	0.4	14
154	Techniques for early detection of Alzheimer's disease using spontaneous EEG recordings. *Physiological Measurement*, **2007**, 28, 335-47	2.9	31
153	Advances in Blind Source Separation. *Eurasip Journal on Advances in Signal Processing*, **2007**, 2007,	1.9	2
152	Epileptic seizure characterization by Lyapunov exponent of EEG signal. *COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, **2007**, 26, 1276-1287	0.7	20
151	Speech comprehension assessed by electroencephalography: a new method using m-sequence modulation. *Neuroscience Research*, **2007**, 57, 314-8	2.9	5
150	Multichannel EEG brain activity pattern analysis in time-frequency domain with nonnegative matrix factorization support. *International Congress Series*, **2007**, 1301, 266-269		25
149	Speech comprehension assessed by electroencephalography with m-sequence technique. *International Congress Series*, **2007**, 1301, 83-86		
148	Blind source extraction based on a linear predictor. *IET Signal Processing*, **2007**, 1, 29-34	1.7	25
147	Analysis and online realization of the CCA approach for blind source separation. *IEEE Transactions on Neural Networks*, **2007**, 18, 1505-10		32
146	A Unifying Approach to the Derivation of the Class of PNLMS Algorithms **2007**,		5
145	Modified Modulated Hebb-Oja Learning Rule: A Method for Biologically Plausible Principal Component Analysis. *Lecture Notes in Computer Science*, **2007**, 527-536	0.9	1
144	Sparse Super Symmetric Tensor Factorization. *Lecture Notes in Computer Science*, **2007**, 781-790	0.9	2

143	Flexible Component Analysis for Sparse, Smooth, Nonnegative Coding or Representation. *Lecture Notes in Computer Science*, **2007**, 811-820	0.9	10
142	Removal of ballistocardiogram artifacts from simultaneously recorded EEG and fMRI data using independent component analysis. *IEEE Transactions on Biomedical Engineering*, **2006**, 53, 1294-308	5	76
141	Probability estimation for recoverability analysis of blind source separation based on sparse representation. *IEEE Transactions on Information Theory*, **2006**, 52, 3139-3152	2.8	24
140	Removal of ocular artifacts for high resolution EEG studies: a simulation study. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society*, **2006**, 2006, 976-9		2
139	Multilayer nonnegative matrix factorisation. *Electronics Letters*, **2006**, 42, 947	1.1	68
138	Auditory Feedback for Brain Computer Interface Management An EEG Data Sonification Approach. *Lecture Notes in Computer Science*, **2006**, 1232-1239	0.9	13
137	. *IEEE Transactions on Circuits and Systems Part 1: Regular Papers*, **2006**, 53, 114-128		6
136	Blind Second-Order Source Extraction of Instantaneous Noisy Mixtures. *IEEE Transactions on Circuits and Systems Part 2: Express Briefs*, **2006**, 53, 931-935		28
135	Blind estimation of channel parameters and source components for EEG signals: a sparse factorization approach. *IEEE Transactions on Neural Networks*, **2006**, 17, 419-31		37
134	Underdetermined blind source separation based on sparse representation. *IEEE Transactions on Signal Processing*, **2006**, 54, 423-437	4.8	192
133	. *IEEE Transactions on Signal Processing*, **2006**, 54, 1028-1040	4.8	26
132	Nonnegative Matrix Factorization for Motor Imagery EEG Classification. *Lecture Notes in Computer Science*, **2006**, 250-259	0.9	12
131	Single trial method for brain-computer interface. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society*, **2006**, 2006, 5277-81		3
130	Robust Sparse Component Analysis Based on a Generalized Hough Transform. *Eurasip Journal on Advances in Signal Processing*, **2006**, 2007, 1	1.9	6
129	Constrained Projection Approximation Algorithms for Principal Component Analysis. *Neural Processing Letters*, **2006**, 24, 53-65	2.4	3
128	Visualization of Dynamic Brain Activities Based on the Single-Trial MEG and EEG Data Analysis. *Lecture Notes in Computer Science*, **2006**, 531-540	0.9	1
127	Global Noise Elimination from ELF Band Electromagnetic Signals by Independent Component Analysis. *Lecture Notes in Computer Science*, **2006**, 384-391	0.9	0
126	Analysis of Source Sparsity and Recoverability for SCA Based Blind Source Separation. *Lecture Notes in Computer Science*, **2006**, 831-837	0.9	1

125	K-EVD Clustering and Its Applications to Sparse Component Analysis. *Lecture Notes in Computer Science*, **2006**, 90-97	0.9	11
124	Csisz丞 Divergences for Non-negative Matrix Factorization: Family of New Algorithms. *Lecture Notes in Computer Science*, **2006**, 32-39	0.9	111
123	Analysis on EEG Signals in Visually and Auditorily Guided Saccade Task by FICAR. *Lecture Notes in Computer Science*, **2006**, 438-445	0.9	1
122	Extended SMART Algorithms for Non-negative Matrix Factorization. *Lecture Notes in Computer Science*, **2006**, 548-562	0.9	35
121	Non-negative Matrix Factorization with Quasi-Newton Optimization. *Lecture Notes in Computer Science*, **2006**, 870-879	0.9	37
120	A Flexible Method for Envelope Estimation in Empirical Mode Decomposition. *Lecture Notes in Computer Science*, **2006**, 1248-1255	0.9	3
119	K-Hyperplanes Clustering and Its Application to Sparse Component Analysis. *Lecture Notes in Computer Science*, **2006**, 1038-1047	0.9	1
118	Sparse Bump Sonification: A New Tool for Multichannel EEG Diagnosis of Mental Disorders; Application to the Detection of the Early Stage of Alzheimer Disease. *Lecture Notes in Computer Science*, **2006**, 92-101	0.9	6
117	EEG filtering based on blind source separation (BSS) for early detection of Alzheimer's disease. *Clinical Neurophysiology*, **2005**, 116, 729-37	4.3	103
116	Stereophonic noise reduction using a combined sliding subspace projection and adaptive signal enhancement. *IEEE Transactions on Speech and Audio Processing*, **2005**, 13, 309-320		2
115	Combining the extremities on the basis of separation: a new approach to EEG/ERP source localization. *International Congress Series*, **2005**, 1278, 119-122		1
114	Sparse component analysis and blind source separation of underdetermined mixtures. *IEEE Transactions on Neural Networks*, **2005**, 16, 992-6		211
113	Non-negative matrix factorization and its application in blind sparse source separation with less sensors than sources. *COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, **2005**, 24, 695-706	0.7	1
112	Blind Identification and Deconvolution for Noisy Two-Input Two-Output Channels. *Lecture Notes in Computer Science*, **2005**, 502-507	0.9	0
111	Blind source separation of acoustic signals in realistic environments based on ICA in the time-frequency domain. *International Journal of Pervasive Computing and Communications*, **2005**, 1, 89-100	3.3	4
110	ICA and Committee Machine-Based Algorithm for Cursor Control in a BCI System. *Lecture Notes in Computer Science*, **2005**, 973-978	0.9	7
109	Dynamic Brain Sources of Single-Trial Auditory Evoked Potentials Data Using Complex ICA Approach. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society*, **2005**, 2005, 4191-4		
108	Early Detection of Alzheimer Disease by Blind Source Separation, Time Frequency Representation, and Bump Modeling of EEG Signals. *Lecture Notes in Computer Science*, **2005**, 683-692	0.9	18

107	Analysis of sparse representation and blind source separation. *Neural Computation*, **2004**, 16, 1193-234	2.9	215
106	Blind source estimation of FIR channels for binary sources: a grouping decision approach. *Signal Processing*, **2004**, 84, 2245-2263	4.4	7
105	Multichannel blind deconvolution of nonminimum-phase systems using filter decomposition. *IEEE Transactions on Signal Processing*, **2004**, 52, 1430-1442	4.8	16
104	Self-adaptive blind source separation based on activation functions adaptation. *IEEE Transactions on Neural Networks*, **2004**, 15, 233-44		35
103	From blind signal extraction to blind instantaneous signal separation: criteria, algorithms, and stability. *IEEE Transactions on Neural Networks*, **2004**, 15, 859-73		65
102	Blind source extraction from convolutive mixtures in ill-conditioned multi-input multi-output channels. *IEEE Transactions on Circuits and Systems Part 1: Regular Papers*, **2004**, 51, 1814-1822		10
101	Blind Signal Separation and Extraction: Recent Trends, Future Perspectives, and Applications. *Lecture Notes in Computer Science*, **2004**, 30-37	0.9	6
100	Optimization Techniques for Independent Component Analysis with Applications to EEG Data. *Biocomputing*, **2004**, 53-68		3
99	Second-order statistics based blind source separation using a bank of subband filters **2003**, 13, 252-274		23
98	A robust approach to independent component analysis of signals with high-level noise measurements. *IEEE Transactions on Neural Networks*, **2003**, 14, 631-45		37
97	Independent component analysis for unaveraged single-trial MEG data decomposition and single-dipole source localization. *Neurocomputing*, **2002**, 49, 255-277	5.4	34
96	Robust blind source separation algorithms using cumulants. *Neurocomputing*, **2002**, 49, 87-118	5.4	34
95	Blind noise reduction for multisensory signals using ICA and subspace filtering, with application to EEG analysis. *Biological Cybernetics*, **2002**, 86, 293-303	2.8	112
94	Equivariant nonstationary source separation. *Neural Networks*, **2002**, 15, 121-30	9.1	66
93	Geometrical Structures of FIR Manifold and Multichannel Blind Deconvolution. *Journal of Signal Processing Systems*, **2002**, 31, 31-44		6
92	Process-Based E-Service Composition for Modeling and Automating Zero Latency Supply Chains. *Information Systems Frontiers*, **2002**, 4, 33-54	4	3
91	Second Order Nonstationary Source Separation. *Journal of Signal Processing Systems*, **2002**, 32, 93-104		59
90	On a new blind signal extraction algorithm: different criteria and stability analysis. *IEEE Signal Processing Letters*, **2002**, 9, 233-236	3.2	28

89	Robust Blind Source Separation Utilizing Second and Fourth Order Statistics. *Lecture Notes in Computer Science*, **2002**, 1162-1167	0.9	4
88	**2002**,		874
87	Kernel PCA for Feature Extraction and De-Noising in Nonlinear Regression. *Neural Computing and Applications*, **2001**, 10, 231-243	4.8	124
86	Segmentation and tracking of the electro-encephalogram signal using an adaptive recursive bandpass filter. *Medical and Biological Engineering and Computing*, **2001**, 39, 237-48	3.1	6
85	Semiparametric model and superefficiency in blind deconvolution. *Signal Processing*, **2001**, 81, 2535-2553	1.4	10
84	Hyper Radial Basis Function Neural Networks for Interference Cancellation with Nonlinear Processing of Reference Signal **2001**, 11, 204-221		8
83	Noise reduction in brain evoked potentials based on third-order correlations. *IEEE Transactions on Biomedical Engineering*, **2001**, 48, 501-12	5	19
82	Extraction of specific signals with temporal structure. *Neural Computation*, **2001**, 13, 1995-2003	2.9	138
81	ADAPTIVE NOISE CANCELLATION FOR MULTI-SENSORY SIGNALS. *Fluctuation and Noise Letters*, **2001**, 01, R13-R24	1.2	10
80	Algebraic differential decorrelation for nonstationary source separation. *Electronics Letters*, **2001**, 37, 1414	1.1	6
79	Measurement of the elastic magnetic form factor of (3)He at high momentum transfer. *Physical Review Letters*, **2001**, 86, 5446-9	7.4	10
78	Blind equalisation using approximate maximum likelihood source separation. *Electronics Letters*, **2001**, 37, 61	1.1	10
77	The Minimum Entropy and Cumulants Based Contrast Functions for Blind Source Extraction. *Lecture Notes in Computer Science*, **2001**, 786-793	0.9	3
76	Flexible Independent Component Analysis. *Journal of Signal Processing Systems*, **2000**, 26, 25-38		83
75	On-line Algorithm for Blind Signal Extraction of Arbitrarily Distributed, but Temporally Correlated Sources Using Second Order Statistics **2000**, 12, 91-98		37
74	An iterative inversion approach to blind source separation. *IEEE Transactions on Neural Networks*, **2000**, 11, 1423-37		37
73	Adaptive neural networks for robust estimation of signal parameters. *COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, **2000**, 19, 903-912	0.7	0
72	Nonholonomic orthogonal learning algorithms for blind source separation. *Neural Computation*, **2000**, 12, 1463-84	2.9	61

71	Robust whitening procedure in blind source separation context. *Electronics Letters*, **2000**, 36, 2050	1.1	105
70	Blind separation of nonstationary sources in noisy mixtures. *Electronics Letters*, **2000**, 36, 848	1.1	62
69	Intraoperative neurolytic coeliac plexus block for pain control in pancreatic cancer. *The Pain Clinic*, **2000**, 12, 87-91		
68	Hybrid learning approach to blind deconvolution of linear MIMO systems. *Electronics Letters*, **1999**, 35, 1429	1.1	2
67	Neural networks for blind separation with unknown number of sources. *Neurocomputing*, **1999**, 24, 55-93	5.4	60
66	Learning in dynamic neural networks using signal flow graphs. *International Journal of Circuit Theory and Applications*, **1999**, 27, 209-228	2	1
65	Natural gradient algorithm for blind separation of overdetermined mixture with additive noise. *IEEE Signal Processing Letters*, **1999**, 6, 293-295	3.2	73
64	Self-whitening algorithms for adaptive equalization and deconvolution. *IEEE Transactions on Signal Processing*, **1999**, 47, 1161-1165	4.8	21
63	A Spurious Equilibria-free Learning Algorithm for the Blind Separation of Non-zoer Skewness Signals. *Neural Processing Letters*, **1998**, 7, 61-68	2.4	8
62	Robust techniques for independent component analysis (ICA) with noisy data. *Neurocomputing*, **1998**, 22, 113-129	5.4	57
61	Information-Theoretic approach to blind separation of sources in non-linear mixture. *Signal Processing*, **1998**, 64, 291-300	4.4	107
60	Adaptive blind signal processing-neural network approaches. *Proceedings of the IEEE*, **1998**, 86, 2026-2048	14.3	249
59	Bias removal technique for blind source separation with noisy measurements. *Electronics Letters*, **1998**, 34, 1379	1.1	15
58	A common neural-network model for unsupervised exploratory data analysis and independent component analysis. *IEEE Transactions on Neural Networks*, **1998**, 9, 1495-501		26
57	Cascade neural networks for multichannel blind deconvolution. *Electronics Letters*, **1998**, 34, 1186	1.1	6
56	On neural blind separation with noise suppression and redundancy reduction. *International Journal of Neural Systems*, **1997**, 8, 219-37	6.2	35
55	Sequential blind signal extraction in order specified by stochastic properties. *Electronics Letters*, **1997**, 33, 64	1.1	63
54	Neural networks for blind decorrelation of signals. *IEEE Transactions on Signal Processing*, **1997**, 45, 2829-2842	4.8	47

53	Blind source separation with convolutive noise cancellation. *Neural Computing and Applications*, **1997**, 6, 127-141	4.8	2
52	A Minor Component Analysis Algorithm. *Neural Networks*, **1997**, 10, 291-297	9.1	62
51	Stability Analysis of Learning Algorithms for Blind Source Separation. *Neural Networks*, **1997**, 10, 1345-1351	9.1	192
50	Neural networks for solving linear inequality systems. *Parallel Computing*, **1997**, 22, 1455-1475	1	23
49	Modified Herault–Jutten Algorithms for Blind Separation of Sources **1997**, 7, 80-93		19
48	Fast-convergence filtered regressor algorithms for blind equalisation. *Electronics Letters*, **1996**, 32, 2114	1.1	10
47	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		135
46	A new neural network for solving linear programming problems. *European Journal of Operational Research*, **1996**, 93, 244-256	5.6	22
45	Robust image association by recurrent neural subnetworks. *Neural Processing Letters*, **1996**, 3, 131-138	2.4	5
44	Neural networks for linear inverse problems with incomplete data especially in applications to signal and image reconstruction. *Neurocomputing*, **1995**, 8, 7-41	5.4	19
43	Robust learning algorithm for blind separation of signals. *Electronics Letters*, **1994**, 30, 1386-1387	1.1	127
42	. *IEEE Transactions on Power Systems*, **1994**, 9, 612-618	7	36
41	Simplified neural networks for solving linear least squares and total least squares problems in real time. *IEEE Transactions on Neural Networks*, **1994**, 5, 910-23		24
40	Neural networks for real-time estimation of the basic waveforms of voltages and currents encountered in power systems. *International Journal of Electronics*, **1993**, 74, 307-318	1.2	
39	Robust estimation of principal components by using neural network learning algorithms. *Electronics Letters*, **1993**, 29, 1869	1.1	17
38	New learning algorithm for blind separation of sources. *Electronics Letters*, **1992**, 28, 1986	1.1	22
37	. *IEEE Transactions on Circuits and Systems Part 2: Express Briefs*, **1992**, 39, 619-633		30
36	Neural network for singular value decomposition. *Electronics Letters*, **1992**, 28, 784	1.1	23

35	*. IEEE Transactions on Circuits and Systems Part 1: Regular Papers*, **1992**, 39, 124-138		105
34	Neural networks for computing eigenvalues and eigenvectors. *Biological Cybernetics*, **1992**, 68, 155-164	2.8	44
33	Switched-capacitor neural networks for differential optimization. *International Journal of Circuit Theory and Applications*, **1991**, 19, 161-187	2	14
32	Winner-take-all neural network and its application to minimax optimisation problems. *Electronics Letters*, **1991**, 27, 2026	1.1	9
31	Switched-capacitor transducers with digital or duty-cycle output based on pulse-width modulation technique. *International Journal of Electronics*, **1991**, 71, 265-278	1.2	3
30	*. IEEE Transactions on Instrumentation and Measurement*, **1990**, 39, 797-799	5.2	15
29	Appllication of switched-capacitor self-oscillating circuits to the conversion of RLC parameters into a frequency or digital signal. *Sensors and Actuators A: Physical*, **1990**, 24, 129-137	3.9	12
28	New analogue four-quadrant voltage divider. *Electronics Letters*, **1990**, 26, 1580	1.1	1
27	Technique for compensation of errors in analogue multipliers. *Electronics Letters*, **1989**, 25, 305	1.1	2
26	Design of Adaptive and Nonlinear Analog CMOS Circuits: Building Block Approach **1989**, 445-554		
25	*. IEEE Transactions on Instrumentation and Measurement*, **1988**, 37, 18-24	5.2	4
24	Switched-capacitor function generators. *International Journal of Electronics*, **1988**, 64, 359-375	1.2	3
23	The explicit inverses of general tridiagonal matrices and some applications. *Archiv Fuer Elektrotechnik*, **1986**, 69, 255-260		1
22	*. IEEE Transactions on Instrumentation and Measurement*, **1986**, IM-35, 156-162	5.2	9
21	Simple technique for analysis of SC networks using general-purpose circuit simulation programs. *Electronics Letters*, **1986**, 22, 956	1.1	3
20	Realization of arbitrary linear resistive multiports using a switched-capacitor technique. *International Journal of Electronics*, **1986**, 60, 463-480	1.2	2
19	MOS SC microsystem for generating trigonometrical functions and their inverses. *Electronics Letters*, **1986**, 22, 1056	1.1	2
18	Novel switched-capacitor generalised integrator. *Electronics Letters*, **1985**, 21, 158	1.1	3

LIST OF PUBLICATIONS

17	A sinusoidal frequency multiplying and dividing technique. *International Journal of Electronics*, **1983**, 54, 427-436	1.2	5
16	Nested-feedback-loops realization of 2-D systems. *Circuits, Systems, and Signal Processing*, **1982**, 1, 321-343	1.1	2
15	Synthesis of nonlinear functions using continued fraction expansion. *Electronics Letters*, **1980**, 16, 431	1.1	3
14	Reply: Synthesis of active RC multiport voltage transfer functions with reduced number of operational amplifiers. *Electronics Letters*, **1980**, 16, 333	1.1	
13	Synthesis of n-port networks by a matrix-continuant. *International Journal of Circuit Theory and Applications*, **1979**, 7, 77-86	2	3
12	Realisation of resistive N-port networks using operational amplifiers. *Electronics Letters*, **1978**, 14, 412	1.1	4
11	Synthesis of active RC multiport voltage transfer functions with reduced number of operational amplifiers. *Electronics Letters*, **1978**, 14, 665	1.1	1
10	Analysis of active networks using flow-graph technique. *Electronics Letters*, **1978**, 14, 227	1.1	2
9	Matrix Coates flow graphs. *IEE Journal on Electronic Circuits and Systems*, **1978**, 2, 199		1
8	Synthesis of rational transfer matrices with active RC networks using equal valued grounded capacitors. *International Journal of Electronics*, **1977**, 42, 229-239	1.2	3
7	Analysis of cascade connection of nonalike 2-ports. *IEEE Transactions on Circuits and Systems*, **1977**, 24, 275-277		
6	Analysis of active ladder network by using coates flow graphs and continuants. *International Journal for Numerical Methods in Engineering*, **1977**, 11, 900-904	2.4	1
5	Synthesis of an arbitrary voltage transfer function. *International Journal of Electronics*, **1976**, 41, 73-80	1.2	2
4	Quasi-Newton Algorithms for Nonnegative Matrix Factorization295-335		
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