

# RafaÅ, Zdunek

## List of Publications by Year in descending order

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77  
papers

2,848  
citations

394286

19  
h-index

302012

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g-index

95  
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95  
docs citations

95  
times ranked

2270  
citing authors

#	ARTICLE	IF	CITATIONS
1	Incremental Nonnegative Tucker Decomposition with Block-Coordinate Descent and Recursive Approaches. <i>Symmetry</i> , 2022, 14, 113.	1.1	5
2	Image completion with approximate convex hull tensor decomposition. <i>Signal Processing: Image Communication</i> , 2021, 95, 116276.	1.8	2
3	Fast hierarchical tucker decomposition with single-mode preservation and tensor subspace analysis for feature extraction from augmented multimodal data. <i>Neurocomputing</i> , 2021, 445, 231-243.	3.5	5
4	On-Off Scheduling for Electric Vehicle Charging in Two-Links Charging Stations Using Binary Optimization Approaches. <i>Sensors</i> , 2021, 21, 7149.	2.1	4
5	Classification of Copper Minerals by Handheld Laser-Induced Breakdown Spectroscopy and Nonnegative Tensor Factorisation. <i>Sensors</i> , 2020, 20, 5152.	2.1	3
6	Image Completion with Hybrid Interpolation in Tensor Representation. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 797.	1.3	5
7	Trust-Region Strategy with Cauchy Point for Nonnegative Tensor Factorization with Beta-Divergence. <i>Smart Innovation, Systems and Technologies</i> , 2020, , 315-325.	0.5	1
8	Fast Recursive Nonnegative Standard and Hierarchical Tucker Decomposition. <i>IEEE Signal Processing Letters</i> , 2019, 26, 1265-1269.	2.1	7
9	Recognition of Pharmacological Bi-Heterocyclic Compounds by Using Terahertz Time Domain Spectroscopy and Chemometrics. <i>Sensors</i> , 2019, 19, 3349.	2.1	8
10	Distributed and Randomized Tensor Train Decomposition for Feature Extraction. , 2019, , .		7
11	Image Completion with Filtered Alternating Least Squares Tucker Decomposition. , 2019, , .		1
12	Linked CP tensor decomposition algorithms for shared and individual feature extraction. <i>Signal Processing: Image Communication</i> , 2019, 73, 37-52.	1.8	6
13	Segmented convex-hull algorithms for near-separable NMF and NTF. <i>Neurocomputing</i> , 2019, 331, 150-164.	3.5	9
14	Distributed geometric nonnegative matrix factorization and hierarchical alternating least squares-based nonnegative tensor factorization with the MapReduce paradigm. <i>Concurrency Computation Practice and Experience</i> , 2018, 30, e4473.	1.4	5
15	Feature-Fusion HALS-based Algorithm for Linked CP Decomposition Model in Application to Joint EMG/MMG Signal Classification. , 2018, , .		1
16	Randomized Nonnegative Tensor Factorization for Feature Extraction from High-dimensional Signals. , 2018, , .		4
17	Distributed Nonnegative Matrix Factorization with HALS Algorithm on Apache Spark. <i>Lecture Notes in Computer Science</i> , 2018, , 333-342.	1.0	2
18	Modified HALS Algorithm for Image Completion and Recommendation System. <i>Advances in Intelligent Systems and Computing</i> , 2018, , 17-27.	0.5	3

#	ARTICLE	IF	CITATIONS
19	Image Completion with Smooth Nonnegative Matrix Factorization. Lecture Notes in Computer Science, 2018, , 62-72.	1.0	3
20	Image Completion with Nonnegative Matrix Factorization Under Separability Assumption. Lecture Notes in Computer Science, 2018, , 116-126.	1.0	2
21	Electromyography and mechanomyography signal recognition: Experimental analysis using multi-way array decomposition methods. Biocybernetics and Biomedical Engineering, 2017, 37, 103-113.	3.3	34
22	Distributed Nonnegative Matrix Factorization with HALS Algorithm on MapReduce. Lecture Notes in Computer Science, 2017, , 211-222.	1.0	7
23	Nonnegative factorization of spectrogram for local damage detection of belt conveyor gearboxes. IFAC-PapersOnLine, 2017, 50, 4714-4718.	0.5	7
24	XRAY Algorithm for Separable Nonnegative Tensor Factorization. Lecture Notes in Computer Science, 2017, , 246-256.	1.0	0
25	Automatic tuning of hyperparameters for NMF-based face recognition system. , 2016, , .		1
26	Unsupervised verification of laser-induced breakdown spectroscopy dataset clustering. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2016, 126, 84-92.	1.5	4
27	Extraction of Dynamic Nonnegative Features from Multidimensional Nonstationary Signals. Lecture Notes in Computer Science, 2016, , 557-566.	1.0	1
28	Smooth nonnegative matrix and tensor factorizations for robust multi-way data analysis. Signal Processing, 2015, 113, 234-249.	2.1	87
29	Image Classification with Nonnegative Matrix Factorization Based on Spectral Projected Gradient. Springer Series in Bio-/neuroinformatics, 2015, , 31-50.	0.1	5
30	Regularized nonnegative matrix factorization: Geometrical interpretation and application to spectral unmixing. International Journal of Applied Mathematics and Computer Science, 2014, 24, 233-247.	1.5	10
31	Alternating direction method for approximating smooth feature vectors in Nonnegative Matrix Factorization. , 2014, , .		6
32	B-Spline Smoothing of Feature Vectors in Nonnegative Matrix Factorization. Lecture Notes in Computer Science, 2014, , 72-81.	1.0	5
33	Improved Convolutional and Under-Determined Blind Audio Source Separation with MRF Smoothing. Cognitive Computation, 2013, 5, 493-503.	3.6	8
34	From basis components to complex structural patterns. , 2013, , .		9
35	GNMF with Newton-Based Methods. Lecture Notes in Computer Science, 2013, , 90-97.	1.0	2
36	Hyperspectral image unmixing with Nonnegative Matrix Factorization. , 2012, , .		2

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37	Spectral Signal Unmixing with Interior-Point Nonnegative Matrix Factorization. Lecture Notes in Computer Science, 2012, , 65-72.	1.0	2
38	Trust-Region Algorithm for Nonnegative Matrix Factorization with Alpha- and Beta-divergences. Lecture Notes in Computer Science, 2012, , 226-235.	1.0	2
39	Initialization of Nonnegative Matrix Factorization with Vertices of Convex Polytope. Lecture Notes in Computer Science, 2012, , 448-455.	1.0	12
40	Approximation of Feature Vectors in Nonnegative Matrix Factorization with Gaussian Radial Basis Functions. Lecture Notes in Computer Science, 2012, , 616-623.	1.0	6
41	Nesterov's Iterations for NMF-Based Supervised Classification of Texture Patterns. Lecture Notes in Computer Science, 2012, , 478-485.	1.0	2
42	Symmetric Nonnegative Matrix Factorization: Algorithms and Applications to Probabilistic Clustering. IEEE Transactions on Neural Networks, 2011, 22, 2117-2131.	4.8	202
43	Regularized Active Set Least Squares Algorithm for Nonnegative Matrix Factorization in Application to Raman Spectra Separation. Lecture Notes in Computer Science, 2011, , 492-499.	1.0	4
44	Regularized NNLS Algorithms for Nonnegative Matrix Factorization with Application to Text Document Clustering. Advances in Intelligent and Soft Computing, 2011, , 757-766.	0.2	4
45	Uni-orthogonal Nonnegative Tucker Decomposition for Supervised Image Classification. Lecture Notes in Computer Science, 2011, , 88-97.	1.0	1
46	Sequential Coordinate-Wise DNMF for Face Recognition. Lecture Notes in Computer Science, 2010, , 563-570.	1.0	1
47	UMTS Base Station Location Planning with Invasive Weed Optimization. Lecture Notes in Computer Science, 2010, , 698-705.	1.0	6
48	Improved FOCUSS Method With Conjugate Gradient Iterations. IEEE Transactions on Signal Processing, 2009, 57, 399-404.	3.2	42
49	On image reconstruction algorithms for binary electromagnetic geotomography. Theoretical Computer Science, 2008, 406, 160-170.	0.5	2
50	Nonnegative matrix factorization with quadratic programming. Neurocomputing, 2008, 71, 2309-2320.	3.5	32
51	Nonnegative Matrix and Tensor Factorization [Lecture Notes]. IEEE Signal Processing Magazine, 2008, 25, 142-145.	4.6	118
52	Improved M-FOCUSS Algorithm With Overlapping Blocks for Locally Smooth Sparse Signals. IEEE Transactions on Signal Processing, 2008, 56, 4752-4761.	3.2	53
53	Advances in Nonnegative Matrix and Tensor Factorization. Computational Intelligence and Neuroscience, 2008, 2008, 1-3.	1.1	19
54	Fast Nonnegative Matrix Factorization Algorithms Using Projected Gradient Approaches for Large-Scale Problems. Computational Intelligence and Neuroscience, 2008, 2008, 1-13.	1.1	40

#	ARTICLE	IF	CITATIONS
55	Tomographic image reconstruction from limited-view projections with Wiener filtered focus algorithm. , 2008, , .		3
56	Nonnegative Tensor Factorization with Smoothness Constraints. Lecture Notes in Computer Science, 2008, , 300-307.	1.0	0
57	Data Clustering with Semi-binary Nonnegative Matrix Factorization. Lecture Notes in Computer Science, 2008, , 705-716.	1.0	8
58	CG-M-FOCUSS and Its Application to Distributed Compressed Sensing. Lecture Notes in Computer Science, 2008, , 237-245.	1.0	8
59	MULTILAYER NONNEGATIVE MATRIX FACTORIZATION USING PROJECTED GRADIENT APPROACHES. International Journal of Neural Systems, 2007, 17, 431-446.	3.2	75
60	Hierarchical ALS Algorithms for Nonnegative Matrix and 3D Tensor Factorization. , 2007, , 169-176.		180
61	Erratum for "Multilayer nonnegative matrix factorisation". Electronics Letters, 2007, 43, 425.	0.5	0
62	Non-Negative Tensor Factorization using Alpha and Beta Divergences. , 2007, , .		46
63	Novel Multi-layer Non-negative Tensor Factorization with Sparsity Constraints. Lecture Notes in Computer Science, 2007, , 271-280.	1.0	23
64	Regularized Alternating Least Squares Algorithms for Non-negative Matrix/Tensor Factorization. Lecture Notes in Computer Science, 2007, , 793-802.	1.0	39
65	Multichannel EEG brain activity pattern analysis in time-frequency domain with nonnegative matrix factorization support. International Congress Series, 2007, 1301, 266-269.	0.2	29
66	Nonnegative matrix factorization with constrained second-order optimization. Signal Processing, 2007, 87, 1904-1916.	2.1	83
67	Blind Image Separation Using Nonnegative Matrix Factorization with Gibbs Smoothing. Lecture Notes in Computer Science, 2007, , 519-528.	1.0	11
68	Sparse Super Symmetric Tensor Factorization. Lecture Notes in Computer Science, 2007, , 781-790.	1.0	4
69	Flexible Component Analysis for Sparse, Smooth, Nonnegative Coding or Representation. Lecture Notes in Computer Science, 2007, , 811-820.	1.0	17
70	Improved Modeling of Highly Loaded UMTS Network with Nonnegative Constraints. , 2006, , .		2
71	Multilayer nonnegative matrix factorisation. Electronics Letters, 2006, 42, 947.	0.5	107
72	Extended SMART Algorithms for Non-negative Matrix Factorization. Lecture Notes in Computer Science, 2006, , 548-562.	1.0	56

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73	Detection of Subsurface Bubbles with Discrete Electromagnetic Geotomography. Electronic Notes in Discrete Mathematics, 2005, 20, 535-553.	0.4	3
74	Electromagnetic geotomography-selection of measuring frequency. IEEE Sensors Journal, 2005, 5, 242-250.	2.4	18
75	Kaczmarz extended algorithm for tomographic image reconstruction from limited-data. Mathematics and Computers in Simulation, 2004, 65, 579-598.	2.4	74
76	<title>Use of computed tomography methods for investigating electromagnetic wave attenuation distribution in the Earth</title>. , 2001, , .		0
77	Projected Gradient Algorithms. , 0, , 267-294.		0