Norikazu Takahashi

List of Publications by Year
in descending order

58	517	840585	713332
papers	citations	11 h-index	21 g-index

61	61	61	273
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A novel update rule of HALS algorithm for nonnegative matrix factorization and Zangwillâ€™s global convergence. Journal of Global Optimization, 2022, 84, 755-781.	1.1	1
2	An Algorithm for Randomized Nonnegative Matrix Factorization and Its Global Convergence. , 2021, , .		0
3	Distributed HALS Algorithm for NMF based on Simple Average Consensus Algorithm. , 2021, , .		0
4	Distributed Algorithm for Principal Component Analysis Based on Power Method and Average Consensus Algorithm. , 2020, , .		0
5	A Genetic Algorithm for Finding Regular Graphs with Minimum Average Shortest Path Length. , 2020, , .		1
6	Element-Wise Alternating Least Squares Algorithm for Nonnegative Matrix Factorization on One-Hot Encoded Data. Communications in Computer and Information Science, 2020, , 342-350.	0.4	3
7	A Novel NMF Algorithm for Detecting Clusters in Directed Networks. , 2019, , .		5
8	Reconstruction of CT Images Using Iterative Least-Squares Methods with Nonnegative Constraint. Journal of Signal Processing, 2019, 23, 41-48.	0.2	2
9	A Damped Newton Algorithm for Nonnegative Matrix Factorization Based on Alpha-Divergence. , 2019, , .		3
10	A Distributed HALS Algorithm for Euclidean Distance-Based Nonnegative Matrix Factorization. , 2019, , .		3
11	An Infinity Norm-Based Pseudo-Decentralized Discrete-Time Algorithm for Computing Algebraic Connectivity. , 2019, , .		1
12	Mutual Relationship between the Neural Network Model and Linear Complexity for Pseudorandom Binary Number Sequence. , 2019, , .		1
13	Band-restricted diagonally dominant matrices: Computational complexity and application. Journal of Computer and System Sciences, 2019, 101, 100-111.	0.9	0
14	A unified global convergence analysis of multiplicative update rules for nonnegative matrix factorization. Computational Optimization and Applications, 2018, 71, 221-250.	0.9	12
15	Depth-First Search Algorithms for Finding a Generalized Moore Graph. , 2018, , .		5
16	A Simple Sufficient Condition for Convergence of Projected Consensus Algorithm. , 2018, 2, 537-542.		4
17	Maximizing Algebraic Connectivity in the Space of Graphs With a Fixed Number of Vertices and Edges. IEEE Transactions on Control of Network Systems, 2017, 4, 359-368.	2.4	28
18	A Novel Newton-Type Algorithm for Nonnegative Matrix Factorization with Alpha-Divergence. Lecture Notes in Computer Science, 2017, , 335-344.	1.0	3

#	Article	IF	Citations
19	Graphs that locally maximize clustering coefficient in the space of graphs with a fixed degree sequence. Discrete Applied Mathematics, 2017, 217, 525-535.	0.5	1
20	Gauss-Seidel HALS Algorithm for Nonnegative Matrix Factorization with Sparseness and Smoothness Constraints. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2017, E100.A, 2925-2935.	0.2	6
21	A new decentralized discrete-time algorithm for estimating algebraic connectivity of multiagent networks. , 2016, , .		5
22	Multiplicative update for a class of constrained optimization problems related to NMF and its global convergence. , 2016, , .		5
23	Special section on recent progress in nonlinear theory and its applications. Nonlinear Theory and Its Applications IEICE, 2015, 6, 453-453.	0.4	1
24	Global convergence of a modified HALS algorithm for nonnegative matrix factorization. , 2015, , .		11
25	Global convergence of modified multiplicative updates for nonnegative matrix factorization. Computational Optimization and Applications, 2014, 57, 417-440.	0.9	28
26	New classes of clustering coefficient locally maximizing graphs. Discrete Applied Mathematics, 2014, 162, 202-213.	0.5	5
27	A Modified Multiplicative Update Algorithm for Convex Quadratic Programming Problems with Nonnegativity Constraints. IEICE Proceeding Series, 2014, 1, 431-434.	0.0	0
28	A New Continuous-Time Algorithm for Calculating Algebraic Connectivity of Multi-Agent Networks. IEICE Proceeding Series, 2014, 1, 45-48.	0.0	1
29	Boundedness of modified multiplicative updates for nonnegative matrix factorization. , 2013, , .		3
30	Explicit proof of an inequality related to the Omega-matrix. Nonlinear Theory and Its Applications IEICE, 2013, 4, 430-450.	0.4	1
31	Some properties of solution curves of a class of nonlinear equations and the number of solutions. Nonlinear Theory and Its Applications IEICE, 2012, 3, 301-335.	0.4	2
32	Information Theoretic Limit of Single-Frame Super-Resolution. , 2012, , .		0
33	Maximum clustering coefficient of graphs with given number of vertices and edges. Nonlinear Theory and Its Applications IEICE, 2011, 2, 443-457.	0.4	4
34	Global asymptotic stability of nonlinear circuits related to maximum flow problems. Nonlinear Theory and Its Applications IEICE, 2011, 2, 432-442.	0.4	0
35	A Modified Multiplicative Update Algorithm for Euclidean Distance-Based Nonnegative Matrix Factorization and Its Global Convergence. Lecture Notes in Computer Science, 2011, , 655-662.	1.0	9
36	Sufficient conditions for one-dimensional cellular neural networks to perform connected component detection. Nonlinear Analysis: Real World Applications, 2010, 11, 4202-4213.	0.9	3

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37	On clustering coefficients of graphs with the fixed numbers of vertices and edges. , 2009, , .		1
38	Stable Patterns Realized by a Class of One-Dimensional Two-Layer CNNs. IEEE Transactions on Circuits and Systems I: Regular Papers, 2008, 55, 3607-3620.	3.5	5
39	An Efficient Algorithm for Multi-class Support Vector Machines. , 2008, , .		9
40	On asymptotic behavior of state trajectories of piecewise-linear recurrent neural networks generating periodic sequence of binary vectors. , 2008, , .		0
41	Global Convergence of SMO Algorithm for Support Vector Regression. IEEE Transactions on Neural Networks, 2008, 19, 971-982.	4.8	40
42	Global Convergence Analysis of Decomposition Methods for Support Vector Regression. Lecture Notes in Computer Science, 2008, , 663-673.	1.0	1
43	Sufficient Conditions for 1-D CNNs with Opposite-Sign Templates to Perform Connected Component Detection. , 2007, , .		1
44	Global Convergence of Decomposition Learning Methods for Support Vector Machines. IEEE Transactions on Neural Networks, 2006, 17, 1362-1369.	4.8	32
45	Necessary and Sufficient Condition for a Class of Planar Dynamical Systems Related to CNNs to be Completely Stable. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 2006, 53, 727-733.	2.3	10
46	A Novel Sequential Minimal Optimization Algorithm for Support Vector Regression. Lecture Notes in Computer Science, 2006, , 827-836.	1.0	12
47	An Efficient Method for Simplifying Decision Functions of Support Vector Machines. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2006, E89-A, 2795-2802.	0.2	14
48	Necessary and Sufficient Conditions for One-Dimensional Discrete-Time Autonomous Binary Cellular Neural Networks to Be Stable. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2006, E89-A, 3693-3698.	0.2	1
49	Necessary and Sufficient Conditions for a 1-D DBCNN with an Input to Be Stable in terms of Connection Coefficients. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2006, E89-A, 2825-2832.	0.2	0
50	Rigorous Proof of Termination of SMO Algorithm for Support Vector Machines. IEEE Transactions on Neural Networks, 2005, 16, 774-776.	4.8	35
51	A Learning Method for Robust Support Vector Machines. Lecture Notes in Computer Science, 2004, , 474-479.	1.0	0
52	An improvement of the design method of cellular neural networks based on generalized eigenvalue minimization. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2003, 50, 1569-1574.	0.1	7
53	A new sufficient condition for complete stability of cellular neural networks with delay. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2000, 47, 793-799.	0.1	106
54	A test for nonnegativity of real polynomials. Electronics and Communications in Japan, Part III: Fundamental Electronic Science (English Translation of Denshi Tsushin Gakkai Ronbunshi), 1998, 81, 58-65.	0.1	0

#	Article	IF	Citations
55	On the complete stability of nonsymmetric cellular neural networks. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 1998, 45, 754-758.	0.1	61
56	A new sufficient condition for nonsymmetric CNNs to have a stable equilibrium point. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 1997, 44, 1092-1095.	0.1	19
57	On Complete Stability of Three-Cell CNNs with Opposite-Sign Templates. , 0, , .		1
58	A Sufficient Condition for 1-D CNNs with Antisymmetric Templates to Perform Connected Component Detection. , 0, , .		2