Haesun Park

List of Publications by Year
in descending order

49 papers	4,755 citations	471509 17 h-index	454955 30 g-index
53 all docs	53 docs citations	53 times ranked	4051 citing authors

#	ARTICLE	IF	CITATIONS
1	Orthogonal nonnegative matrix t-factorizations for clustering. , 2006, , .		768
2	Sparse non-negative matrix factorizations via alternating non-negativity-constrained least squares for microarray data analysis. Bioinformatics, 2007, 23, 1495-1502.	4.1	699
3	Nonnegative Matrix Factorization Based on Alternating Nonnegativity Constrained Least Squares and Active Set Method. SIAM Journal on Matrix Analysis and Applications, 2008, 30, 713-730.	1.4	486
4	Generalizing discriminant analysis using the generalized singular value decomposition. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2004, 26, 995-1006.	13.9	305
5	Symmetric Nonnegative Matrix Factorization for Graph Clustering. , 2012, , .		257
6	Algorithms for nonnegative matrix and tensor factorizations: a unified view based on block coordinate descent framework. Journal of Global Optimization, 2014, 58, 285-319.	1.8	250
7	Fast Nonnegative Matrix Factorization: An Active-Set-Like Method and Comparisons. SIAM Journal of Scientific Computing, 2011, 33, 3261-3281.	2.8	248
8	UTOPIAN: User-Driven Topic Modeling Based on Interactive Nonnegative Matrix Factorization. IEEE Transactions on Visualization and Computer Graphics, 2013, 19, 1992-2001.	4.4	192
9	SymNMF: nonnegative low-rank approximation of a similarity matrix for graph clustering. Journal of Global Optimization, 2015, 62, 545-574.	1.8	148
10	Toward Faster Nonnegative Matrix Factorization: A New Algorithm and Comparisons. , 2008, , .		144
11	Structure Preserving Dimension Reduction for Clustered Text Data Based on the Generalized Singular Value Decomposition. SIAM Journal on Matrix Analysis and Applications, 2003, 25, 165-179.	1.4	141
12	A comparison of generalized linear discriminant analysis algorithms. Pattern Recognition, 2008, 41, 1083-1097.	8.1	131
13	Hierarchical Clustering of Hyperspectral Images Using Rank-Two Nonnegative Matrix Factorization. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 2066-2078.	6.3	95
14	iVisClassifier: An interactive visual analytics system for classification based on supervised dimension reduction. , 2010, , .		93
15	Nonlinear Discriminant Analysis Using Kernel Functions and the Generalized Singular Value Decomposition. SIAM Journal on Matrix Analysis and Applications, 2005, 27, 87-102.	1.4	63
16	Nonnegative Matrix Factorization for Interactive Topic Modeling and Document Clustering. , 2015, , 215-243.		62
17	Bounded matrix factorization for recommender system. Knowledge and Information Systems, 2014, 39, 491-511.	3.2	49
18	Fast rank-2 nonnegative matrix factorization for hierarchical document clustering. , 2013, , .		48

#	Article	IF	Citations
19	Simultaneous Discovery of Common and Discriminative Topics via Joint Nonnegative Matrix Factorization. , 2015, , .		48
20	Group Sparsity in Nonnegative Matrix Factorization. , 2012, , .		43
21	Fast Nonnegative Tensor Factorization with an Active-Set-Like Method. , 2012, , 311-326.		37
22	Multiclass classifiers based on dimension reduction with generalized LDA. Pattern Recognition, 2007, 40, 2939-2945.	8.1	35
23	Feature extraction via generalized uncorrelated linear discriminant analysis. , 2004, , .		34
24	Outlier Detection for Text Data. , 2017, , 489-497.		31
25	MPI-FAUN: An MPI-Based Framework for Alternating-Updating Nonnegative Matrix Factorization. IEEE Transactions on Knowledge and Data Engineering, 2018, 30, 544-558.	5.7	28
26	Fast bregman divergence NMF using taylor expansion and coordinate descent. , 2012, , .		27
27	A high-performance parallel algorithm for nonnegative matrix factorization. , 2016, , .		26
28	DC-NMF: nonnegative matrix factorization based on divide-and-conquer for fast clustering and topic modeling. Journal of Global Optimization, 2017, 68, 777-798.	1.8	23
29	MEGA. Proceedings of the VLDB Endowment, 2020, 13, 698-711.	3.8	23
30	TASTE. , 2020, 2020, 193-203.		22
31	Hypergraph Random Walks, Laplacians, and Clustering. , 2020, , .		21
32	Non-negative Tensor Factorization Based on Alternating Large-scale Non-negativity-constrained Least Squares. , 2007, , .		20
33	Weakly supervised nonnegative matrix factorization for user-driven clustering. Data Mining and Knowledge Discovery, 2015, 29, 1598-1621.	3.7	19
34	Sparse nonnegative matrix factorization for protein sequence motif discovery. Expert Systems With Applications, 2011, 38, 13198-13207.	7.6	16
35	ArchiText: Interactive Hierarchical Topic Modeling. IEEE Transactions on Visualization and Computer Graphics, 2020, 27, 1-1.	4.4	16
36	A high-performance parallel algorithm for nonnegative matrix factorization. ACM SIGPLAN Notices, 2016, 51, 1-11.	0.2	16

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37	Behavioral clusters in dynamic graphs. Parallel Computing, 2015, 47, 38-50.	2.1	13
38	Hybrid clustering based on content and connection structure using joint nonnegative matrix factorization. Journal of Global Optimization, 2019, 74, 861-877.	1.8	12
39	SUSTain. , 2018, 2018, 2080-2089.		11
40	Supervised Raman spectra estimation based on nonnegative rank deficient least squares. , 2010, , .		9
41	Bounded Matrix Low Rank Approximation. , 2012, , .		9
42	Hierarchical community detection via rank-2 symmetric nonnegative matrix factorization. Computational Social Networks, 2017, 4, 7.	2.1	9
43	TopicSifter: Interactive Search Space Reduction through Targeted Topic Modeling. , 2019, , .		8
44	Integer Matrix Approximation and Data Mining. Journal of Scientific Computing, 2018, 75, 198-224.	2.3	4
45	An Alternating Rank-<i>k</i> Nonnegative Least Squares Framework (ARkNLS) for Nonnegative Matrix Factorization. SIAM Journal on Matrix Analysis and Applications, 2021, 42, 1451-1479.	1.4	4
46	Hybrid Clustering of Single-Cell Gene Expression and Spatial Information via Integrated NMF and K-Means. Frontiers in Genetics, 2021, 12, 763263.	2.3	3
47	Distributed-Memory Parallel Symmetric Nonnegative Matrix Factorization. , 2020, , .		2
48	ORCA: Outlier detection and Robust Clustering for Attributed graphs. Journal of Global Optimization, 2021, 81, 967-989.	1.8	1
49	Hierarchical ordering with partial pairwise hierarchical relationships on the macaque brain data sets. PLoS ONE, 2017, 12, e0177373.	2.5	0