Feiping Nie

List of Publications by Year
in descending order

431 **papers**	19,465 **citations**

14655
66 **h-index**

22166
113 **g-index**

431 **all docs**	431 **docs citations**	431 **times ranked**	9659 **citing authors**

#	Article	IF	Citations
1	Joint Embedding Learning and Sparse Regression: A Framework for Unsupervised Feature Selection. IEEE Transactions on Cybernetics, 2014, 44, 793-804.	9.5	552
2	Clustering and projected clustering with adaptive neighbors. , 2014, , .		524
3	Learning a Mahalanobis distance metric for data clustering and classification. Pattern Recognition, 2008, 41, 3600-3612.	8.1	500
4	Flexible Manifold Embedding: A Framework for Semi-Supervised and Unsupervised Dimension Reduction. IEEE Transactions on Image Processing, 2010, 19, 1921-1932.	9.8	439
5	A Multimedia Retrieval Framework Based on Semi-Supervised Ranking and Relevance Feedback. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2012, 34, 723-742.	13.9	426
6	Discriminative Least Squares Regression for Multiclass Classification and Feature Selection. IEEE Transactions on Neural Networks and Learning Systems, 2012, 23, 1738-1754.	11.3	359
7	Multi-view Subspace Clustering. , 2015, , .		328
8	Multiview Consensus Graph Clustering. IEEE Transactions on Image Processing, 2019, 28, 1261-1270.	9.8	310
9	Multi-Class Active Learning by Uncertainty Sampling with Diversity Maximization. International Journal of Computer Vision, 2015, 113, 113-127.	15.6	296
10	Image Clustering Using Local Discriminant Models and Global Integration. IEEE Transactions on Image Processing, 2010, 19, 2761-2773.	9.8	295
11	A Semisupervised Recurrent Convolutional Attention Model for Human Activity Recognition. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 1747-1756.	11.3	269
12	Auto-Weighted Multi-View Learning for Image Clustering and Semi-Supervised Classification. IEEE Transactions on Image Processing, 2018, 27, 1501-1511.	9.8	267
13	Self-weighted Multiview Clustering with Multiple Graphs. , 2017, , .		265
14	Spectral Embedded Clustering: A Framework for In-Sample and Out-of-Sample Spectral Clustering. IEEE Transactions on Neural Networks, 2011, 22, 1796-1808.	4.2	246
15	Trace Ratio Problem Revisited. IEEE Transactions on Neural Networks, 2009, 20, 729-735.	4.2	238
16	Robust Manifold Nonnegative Matrix Factorization. ACM Transactions on Knowledge Discovery From Data, 2014, 8, 1-21.	3.5	208
17	Revisiting Co-Saliency Detection: A Novel Approach Based on Two-Stage Multi-View Spectral Rotation Co-clustering. IEEE Transactions on Image Processing, 2017, 26, 3196-3209.	9.8	204
18	Detecting Coherent Groups in Crowd Scenes by Multiview Clustering. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, 42, 46-58.	13.9	201

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19	Feature selection with multi-view data: A survey. Information Fusion, 2019, 50, 158-167.	19.1	200
20	Rank-Constrained Spectral Clustering With Flexible Embedding. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 6073-6082.	11.3	195
21	Dynamic Affinity Graph Construction for Spectral Clustering Using Multiple Features. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 6323-6332.	11.3	191
22	Compound Rank-<inline-formula> <tex-math notation="LaTeX">k </tex-math> </inline-formula> Projections for Bilinear Analysis. IEEE Transactions on Neural Networks and Learning Systems, 2016, 27, 1502-1513.	11.3	184
23	Web Image Annotation Via Subspace-Sparsity Collaborated Feature Selection. IEEE Transactions on Multimedia, 2012, 14, 1021-1030.	7.2	171
24	Adaptive Unsupervised Feature Selection With Structure Regularization. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 944-956.	11.3	167
25	A unified framework for semi-supervised dimensionality reduction. Pattern Recognition, 2008, 41, 2789-2799.	8.1	166
26	Heterogeneous image feature integration via multi-modal spectral clustering. , 2011, , .		166
27	Robust Object Co-Segmentation Using Background Prior. IEEE Transactions on Image Processing, 2018, 27, 1639-1651.	9.8	155
28	Ranking with local regression and global alignment for cross media retrieval. , 2009, , .		153
29	Multitask Spectral Clustering by Exploring Intertask Correlation. IEEE Transactions on Cybernetics, 2015, 45, 1083-1094.	9.5	150
30	Identifying quantitative trait loci via group-sparse multitask regression and feature selection: an imaging genetics study of the ADNI cohort. Bioinformatics, 2012, 28, 229-237.	4.1	149
31	Semi-supervised orthogonal discriminant analysis via label propagation. Pattern Recognition, 2009, 42, 2615-2627.	8.1	134
32	Effective Discriminative Feature Selection With Nontrivial Solution. IEEE Transactions on Neural Networks and Learning Systems, 2016, 27, 796-808.	11.3	130
33	Discriminating Joint Feature Analysis for Multimedia Data Understanding. IEEE Transactions on Multimedia, 2012, 14, 1662-1672.	7.2	129
34	Beyond Trace Ratio: Weighted Harmonic Mean of Trace Ratios for Multiclass Discriminant Analysis. IEEE Transactions on Knowledge and Data Engineering, 2017, 29, 2100-2110.	5.7	128
35	Multi-View Unsupervised Feature Selection with Adaptive Similarity and View Weight. IEEE Transactions on Knowledge and Data Engineering, 2017, 29, 1998-2011.	5.7	127
36	Feature Selection via Global Redundancy Minimization. IEEE Transactions on Knowledge and Data Engineering, 2015, 27, 2743-2755.	5.7	126

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37	Multiview Clustering: A Scalable and Parameter-Free Bipartite Graph Fusion Method. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 330-344.	13.9	125
38	Image Classification by Cross-Media Active Learning With Privileged Information. IEEE Transactions on Multimedia, 2016, 18, 2494-2502.	7.2	124
39	Multi-view spectral clustering via integrating nonnegative embedding and spectral embedding. Information Fusion, 2020, 55, 251-259.	19.1	123
40	Fast and Orthogonal Locality Preserving Projections for Dimensionality Reduction. IEEE Transactions on Image Processing, 2017, 26, 5019-5030.	9.8	122
41	A generalized power iteration method for solving quadratic problem on the Stiefel manifold. Science China Information Sciences, 2017, 60, 1.	4.3	120
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43	A general graph-based semi-supervised learning with novel class discovery. Neural Computing and Applications, 2010, 19, 549-555.	5.6	116
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45	Joint Schatten $$p$$ p -norm and $$ell _p$$ â„“ p -norm robust matrix completion for missing value recovery. Knowledge and Information Systems, 2015, 42, 525-544.	3.2	114
46	Spectral Embedded Adaptive Neighbors Clustering. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 1265-1271.	11.3	114
47	Multiview Clustering via Adaptively Weighted Procrustes. , 2018, , .		112
48	Generalized Uncorrelated Regression with Adaptive Graph for Unsupervised Feature Selection. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 1587-1595.	11.3	112
49	Semi-Supervised Classification via Local Spline Regression. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2010, 32, 2039-2053.	13.9	107
50	A generative probability model of joint label fusion for multi-atlas based brain segmentation. Medical Image Analysis, 2014, 18, 881-890.	11.6	107
51	Optimized Graph Learning Using Partial Tags and Multiple Features for Image and Video Annotation. IEEE Transactions on Image Processing, 2016, 25, 4999-5011.	9.8	107
52	Person Reidentification via Multi-Feature Fusion With Adaptive Graph Learning. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 1592-1601.	11.3	107
53	Nonlinear Dimensionality Reduction with Local Spline Embedding. IEEE Transactions on Knowledge and Data Engineering, 2009, 21, 1285-1298.	5.7	105
54	Re-Weighted Discriminatively Embedded K -Means for Multi-View Clustering. IEEE Transactions on Image Processing, 2017, 26, 3016-3027.	9.8	104

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56	Locality Adaptive Discriminant Analysis. , 2017, , .		101
57	On the equivalent of low-rank linear regressions and linear discriminant analysis based regressions. , 2013, , .		98
58	Multiple view semi-supervised dimensionality reduction. Pattern Recognition, 2010, 43, 720-730.	8.1	96
59	Fast Spectral Clustering With Anchor Graph for Large Hyperspectral Images. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 2003-2007.	3.1	96
60	Robust 2DPCA With Non-greedy <inline-formula> <tex-math notation="LaTeX">$\ell _{1}$ </tex-math></inline-formula>-Norm Maximization for Image Analysis. IEEE Transactions on Cybernetics, 2015, 45, 1108-1112.	9.5	94
61	A Non-Greedy Algorithm for L1-Norm LDA. IEEE Transactions on Image Processing, 2017, 26, 684-695.	9.8	94
62	Semi-Supervised Dimension Reduction Using Trace Ratio Criterion. IEEE Transactions on Neural Networks and Learning Systems, 2012, 23, 519-526.	11.3	91
63	Learning a 3D Human Pose Distance Metric from Geometric Pose Descriptor. IEEE Transactions on Visualization and Computer Graphics, 2011, 17, 1676-1689.	4.4	90
64	Semisupervised Dimensionality Reduction and Classification Through Virtual Label Regression. IEEE Transactions on Systems, Man, and Cybernetics, 2011, 41, 675-685.	5.0	88
65	Discriminatively Embedded K-Means for Multi-view Clustering. , 2016, , .		88
66	A general kernelization framework for learning algorithms based on kernel PCA. Neurocomputing, 2010, 73, 959-967.	5.9	85
67	$\ell _{2,p}$ -Norm Based PCA for Image Recognition. IEEE Transactions on Image Processing, 2018, 27, 1336-1346.	9.8	83
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70	Adaptive-weighting discriminative regression for multi-view classification. Pattern Recognition, 2019, 88, 236-245.	8.1	78
71	Deep Binary Reconstruction for Cross-Modal Hashing. IEEE Transactions on Multimedia, 2019, 21, 973-985.	7.2	77
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73	Sparse multi-task regression and feature selection to identify brain imaging predictors for memory performance. , 2011, , 557-562.		72
74	Discriminative Embedded Clustering: A Framework for Grouping High-Dimensional Data. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 1287-1299.	11.3	72
75	Extracting the optimal dimensionality for local tensor discriminant analysis. Pattern Recognition, 2009, 42, 105-114.	8.1	71
76	Scalable Multi-View Semi-Supervised Classification via Adaptive Regression. IEEE Transactions on Image Processing, 2017, 26, 4283-4296.	9.8	71
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78	A New Formulation of Linear Discriminant Analysis for Robust Dimensionality Reduction. IEEE Transactions on Knowledge and Data Engineering, 2019, 31, 629-640.	5.7	70
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80	Heterogeneous Visual Features Fusion via Sparse Multimodal Machine. , 2013, , .		67
81	Angle 2DPCA: A New Formulation for 2DPCA. IEEE Transactions on Cybernetics, 2018, 48, 1672-1678.	9.5	67
82	Multiple rank multi-linear SVM for matrix data classification. Pattern Recognition, 2014, 47, 454-469.	8.1	65
83	Semi-supervised Feature Selection via Rescaled Linear Regression. , 2017, , .		65
84	Harnessing Lab Knowledge for Real-World Action Recognition. International Journal of Computer Vision, 2014, 109, 60-73.	15.6	63
85	Convex Sparse PCA for Unsupervised Feature Learning. ACM Transactions on Knowledge Discovery From Data, 2017, 11, 1-16.	3.5	63
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88	Spectral Clustering by Joint Spectral Embedding and Spectral Rotation. IEEE Transactions on Cybernetics, 2020, 50, 247-258.	9.5	60
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90	Semi-Supervised Feature Selection via Sparse Rescaled Linear Square Regression. IEEE Transactions on Knowledge and Data Engineering, 2020, 32, 165-176.	5.7	59

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91	Optimal graph learning with partial tags and multiple features for image and video annotation. , 2015, , .		57
92	Object Co-segmentation via Graph Optimized-Flexible Manifold Ranking. , 2016, , .		57
93	Identifying AD-Sensitive and Cognition-Relevant Imaging Biomarkers via Joint Classification and Regression. Lecture Notes in Computer Science, 2011, 14, 115-123.	1.3	57
94	Scalable Graph-Based Clustering With Nonnegative Relaxation for Large Hyperspectral Image. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 7352-7364.	6.3	56
95	Deep Fuzzy K-Means With Adaptive Loss and Entropy Regularization. IEEE Transactions on Fuzzy Systems, 2020, 28, 2814-2824.	9.8	56
96	Self-weighted Robust LDA for Multiclass Classification with Edge Classes. ACM Transactions on Intelligent Systems and Technology, 2021, 12, 1-19.	4.5	56
97	Predicting Protein–Protein Interactions from Multimodal Biological Data Sources via Nonnegative Matrix Tri-Factorization. Journal of Computational Biology, 2013, 20, 344-358.	1.6	55
98	Auto-weighted multi-view co-clustering via fast matrix factorization. Pattern Recognition, 2020, 102, 107207.	8.1	55
99	Towards Robust Discriminative Projections Learning via Non-Greedy -Norm MinMax. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 2086-2100.	13.9	53
100	Orthogonal vs. uncorrelated least squares discriminant analysis for feature extraction. Pattern Recognition Letters, 2012, 33, 485-491.	4.2	52
101	Initialization Independent Clustering With Actively Self-Training Method. IEEE Transactions on Systems, Man, and Cybernetics, 2012, 42, 17-27.	5.0	52
102	Unsupervised Single and Multiple Views Feature Extraction with Structured Graph. IEEE Transactions on Knowledge and Data Engineering, 2017, 29, 2347-2359.	5.7	51
103	A General Framework for Auto-Weighted Feature Selection via Global Redundancy Minimization. IEEE Transactions on Image Processing, 2019, 28, 2428-2438.	9.8	50
104	Improved MinMax Cut Graph Clustering with Nonnegative Relaxation. Lecture Notes in Computer Science, 2010, , 451-466.	1.3	49
105	Efficient Image Classification via Multiple Rank Regression. IEEE Transactions on Image Processing, 2013, 22, 340-352.	9.8	48
106	Submanifold-Preserving Discriminant Analysis With an Auto-Optimized Graph. IEEE Transactions on Cybernetics, 2020, 50, 3682-3695.	9.5	48
107	Parameter-Free Weighted Multi-View Projected Clustering with Structured Graph Learning. IEEE Transactions on Knowledge and Data Engineering, 2020, 32, 2014-2025.	5.7	48
108	Multi-View Scaling Support Vector Machines for Classification and Feature Selection. IEEE Transactions on Knowledge and Data Engineering, 2020, 32, 1419-1430.	5.7	48

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109	Supervised Feature Selection With Orthogonal Regression and Feature Weighting. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 1831-1838.	11.3	48
110	Orthogonal locality minimizing globality maximizing projections for feature extraction. Optical Engineering, 2009, 48, 017202.	1.0	47
111	Multi-modal classification of neurodegenerative disease by progressive graph-based transductive learning. Medical Image Analysis, 2017, 39, 218-230.	11.6	47
112	Flexible Manifold Learning With Optimal Graph for Image and Video Representation. IEEE Transactions on Image Processing, 2018, 27, 2664-2675.	9.8	47
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115	Feature Learning Viewpoint of Adaboost and a New Algorithm. IEEE Access, 2019, 7, 149890-149899.	4.2	44
116	Self-Weighted Supervised Discriminative Feature Selection. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 3913-3918.	11.3	43
117	Joint Learning of Fuzzy <italic>k</italic>-Means and Nonnegative Spectral Clustering With Side Information. IEEE Transactions on Image Processing, 2019, 28, 2152-2162.	9.8	43
118	Local Adaptive Projection Framework for Feature Selection of Labeled and Unlabeled Data. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 6362-6373.	11.3	42
119	Spectral Clustering of Large-scale Data by Directly Solving Normalized Cut. , 2018, , .		42
120	Multilevel projections with adaptive neighbor graph for unsupervised multi-view feature selection. Information Fusion, 2021, 70, 129-140.	19.1	42
121	Embedding new data points for manifold learning via coordinate propagation. Knowledge and Information Systems, 2009, 19, 159-184.	3.2	41
122	On the eigenvectors of p-Laplacian. Machine Learning, 2010, 81, 37-51.	5.4	41
123	Dyadic transfer learning for cross-domain image classification. , 2011, , .		41
124	Fast spectral clustering learning with hierarchical bipartite graph for large-scale data. Pattern Recognition Letters, 2020, 130, 345-352.	4.2	41
125	Adaptive Weighted Sparse Principal Component Analysis for Robust Unsupervised Feature Selection. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 2153-2163.	11.3	41
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127	Matrix Completion Based on Non-Convex Low-Rank Approximation. IEEE Transactions on Image Processing, 2019, 28, 2378-2388.	9.8	40
128	Saliency Detection via a Multiple Self-Weighted Graph-Based Manifold Ranking. IEEE Transactions on Multimedia, 2020, 22, 885-896.	7.2	40
129	Weighted bilateral K-means algorithm for fast co-clustering and fast spectral clustering. Pattern Recognition, 2021, 109, 107560.	8.1	40
130	Low Rank Regularization: A review. Neural Networks, 2021, 136, 218-232.	5.9	40
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134	Classification by semi-supervised discriminative regularization. Neurocomputing, 2010, 73, 1641-1651.	5.9	37
135	Robust Capped Norm Nonnegative Matrix Factorization. , 2015, , .		37
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137	Two-Dimensional Whitening Reconstruction for Enhancing Robustness of Principal Component Analysis. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2016, 38, 2130-2136.	13.9	36
138	Structured Graph Optimization for Unsupervised Feature Selection. IEEE Transactions on Knowledge and Data Engineering, 2019, , 1-1.	5.7	36
139	Fast Multi-View Clustering via Nonnegative and Orthogonal Factorization. IEEE Transactions on Image Processing, 2021, 30, 2575-2586.	9.8	36
140	Interactive Natural Image Segmentation via Spline Regression. IEEE Transactions on Image Processing, 2009, 18, 1623-1632.	9.8	35
141	Multi-Class L2,1-Norm Support Vector Machine. , 2011, , .		35
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143	Exploiting Combination Effect for Unsupervised Feature Selection by <inline-formula> <tex-math notation="LaTeX">$\ell_{2,0}$ </tex-math> </inline-formula> Norm. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 201-214.	11.3	35
144	Unsupervised Feature Selection via Adaptive Multimeasure Fusion. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 2886-2892.	11.3	35

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145	Discriminative and Uncorrelated Feature Selection With Constrained Spectral Analysis in Unsupervised Learning. IEEE Transactions on Image Processing, 2020, 29, 2139-2149.	9.8	35
146	Auto-weighted multi-view clustering via spectral embedding. Neurocomputing, 2020, 399, 369-379.	5.9	35
147	Adaptive Local Linear Discriminant Analysis. ACM Transactions on Knowledge Discovery From Data, 2020, 14, 1-19.	3.5	35
148	2D Feature Selection by Sparse Matrix Regression. IEEE Transactions on Image Processing, 2017, 26, 4255-4268.	9.8	34
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156	Unsupervised and Semisupervised Projection With Graph Optimization. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 1547-1559.	11.3	32
157	Semi-supervised sub-manifold discriminant analysis. Pattern Recognition Letters, 2008, 29, 1806-1813.	4.2	31
158	Efficient tree classifiers for large scale datasets. Neurocomputing, 2018, 284, 70-79.	5.9	31
159	Local Regression and Global Information-Embedded Dimension Reduction. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 4882-4893.	11.3	31
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163	Multi-View K-Means Clustering With Adaptive Sparse Memberships and Weight Allocation. IEEE Transactions on Knowledge and Data Engineering, 2022, 34, 816-827.	5.7	30
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165	Nonnegative Matrix Tri-factorization Based High-Order Co-clustering and Its Fast Implementation. , 2011, , .		29
166	Unsupervised and semi-supervised learning via ℓ<inf>1</inf>-norm graph. , 2011, , .		29
167	Structured Doubly Stochastic Matrix for Graph Based Clustering. , 2016, , .		29
168	Spectral clustering based on iterative optimization for large-scale and high-dimensional data. Neurocomputing, 2018, 318, 227-235.	5.9	29
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173	Convex Multiview Semi-Supervised Classification. IEEE Transactions on Image Processing, 2017, 26, 5718-5729.	9.8	28
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175	Discrete Spectral Hashing for Efficient Similarity Retrieval. IEEE Transactions on Image Processing, 2019, 28, 1080-1091.	9.8	28
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182	Linear Discriminative Star Coordinates for Exploring Class and Cluster Separation of High Dimensional Data. Computer Graphics Forum, 2017, 36, 401-410.	3.0	25
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184	Discriminant Analysis via Joint Euler Transform and $\ell_{2,1}$ -Norm. IEEE Transactions on Image Processing, 2018, 27, 5668-5682.	9.8	25
185	Adaptive discriminant analysis for semi-supervised feature selection. Information Sciences, 2021, 566, 178-194.	6.9	25
186	Fuzzy graph clustering. Information Sciences, 2021, 571, 38-49.	6.9	25
187	Semi-Supervised Feature Selection via Insensitive Sparse Regression with Application to Video Semantic Recognition. IEEE Transactions on Knowledge and Data Engineering, 2018, 30, 1943-1956.	5.7	24
188	Dense Multimodal Fusion for Hierarchically Joint Representation. , 2019, , .		24
189	Fast Spectral Embedded Clustering Based on Structured Graph Learning for Large-Scale Hyperspectral Image. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	24
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