

Zhihui Lai

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

159
papers

3,513
citations

35
h-index

54
g-index

176
ext. papers

4,295
ext. citations

5.4
avg, IF

5.99
L-index

#	Paper	IF	Citations
159	Multilinear sparse principal component analysis. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2014 , 25, 1942-50	10.3	158
158	Approximate Orthogonal Sparse Embedding for Dimensionality Reduction. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2016 , 27, 723-35	10.3	135
157	Joint sparse principal component analysis. <i>Pattern Recognition</i> , 2017 , 61, 524-536	7.7	128
156	A Locality-Constrained and Label Embedding Dictionary Learning Algorithm for Image Classification. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2017 , 28, 278-293	10.3	110
155	Using the idea of the sparse representation to perform coarse-to-fine face recognition. <i>Information Sciences</i> , 2013 , 238, 138-148	7.7	108
154	Low-Rank Preserving Projections. <i>IEEE Transactions on Cybernetics</i> , 2016 , 46, 1900-13	10.2	107
153	Face recognition by sparse discriminant analysis via joint L2,1-norm minimization. <i>Pattern Recognition</i> , 2014 , 47, 2447-2453	7.7	101
152	Sparse tensor discriminant analysis. <i>IEEE Transactions on Image Processing</i> , 2013 , 22, 3904-15	8.7	100
151	Discriminative Elastic-Net Regularized Linear Regression. <i>IEEE Transactions on Image Processing</i> , 2017 , 26, 1466-1481	8.7	92
150	Integrating conventional and inverse representation for face recognition. <i>IEEE Transactions on Cybernetics</i> , 2014 , 44, 1738-46	10.2	88
149	Joint Tensor Feature Analysis For Visual Object Recognition. <i>IEEE Transactions on Cybernetics</i> , 2015 , 45, 2425-36	10.2	81
148	. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2014 , 24, 1651-1662	6.4	80
147	Low-Rank Embedding for Robust Image Feature Extraction. <i>IEEE Transactions on Image Processing</i> , 2017 , 26, 2905-2917	8.7	79
146	Robust Semi-Supervised Subspace Clustering via Non-Negative Low-Rank Representation. <i>IEEE Transactions on Cybernetics</i> , 2016 , 46, 1828-38	10.2	76
145	Structured optimal graph based sparse feature extraction for semi-supervised learning. <i>Signal Processing</i> , 2020 , 170, 107456	4.4	76
144	Rotational Invariant Dimensionality Reduction Algorithms. <i>IEEE Transactions on Cybernetics</i> , 2017 , 47, 3733-3746	10.2	72
143	Sparse alignment for robust tensor learning. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2014 , 25, 1779-92	10.3	60

142	Approximate Low-Rank Projection Learning for Feature Extraction. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2018 , 29, 5228-5241	10.3	56
141	Learning a Nonnegative Sparse Graph for Linear Regression. <i>IEEE Transactions on Image Processing</i> , 2015 , 24, 2760-71	8.7	56
140	Regularized Label Relaxation Linear Regression. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2018 , 29, 1006-1018	10.3	54
139	Sparse approximation to the eigensubspace for discrimination. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2012 , 23, 1948-60	10.3	53
138	A framework of joint graph embedding and sparse regression for dimensionality reduction. <i>IEEE Transactions on Image Processing</i> , 2015 , 24, 1341-55	8.7	48
137	Robust Latent Subspace Learning for Image Classification. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2018 , 29, 2502-2515	10.3	48
136	Scalable Supervised Asymmetric Hashing With Semantic and Latent Factor Embedding. <i>IEEE Transactions on Image Processing</i> , 2019 , 28, 4803-4818	8.7	48
135	A Truncated Nuclear Norm Regularization Method Based on Weighted Residual Error for Matrix Completion. <i>IEEE Transactions on Image Processing</i> , 2016 , 25, 316-30	8.7	45
134	Modified principal component analysis: an integration of multiple similarity subspace models. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2014 , 25, 1538-52	10.3	44
133	Sparse two-dimensional local discriminant projections for feature extraction. <i>Neurocomputing</i> , 2011 , 74, 629-637	5.4	44
132	Robust Discriminant Regression for Feature Extraction. <i>IEEE Transactions on Cybernetics</i> , 2018 , 48, 2472-2484	10.3	43
131	Multigranulation rough-fuzzy clustering based on shadowed sets. <i>Information Sciences</i> , 2020 , 507, 553-573	7.7	40
130	Local graph embedding based on maximum margin criterion via fuzzy set. <i>Fuzzy Sets and Systems</i> , 2017 , 318, 120-131	3.7	39
129	The L2,1-norm-based unsupervised optimal feature selection with applications to action recognition. <i>Pattern Recognition</i> , 2016 , 60, 515-530	7.7	39
128	Jointly Sparse Hashing for Image Retrieval. <i>IEEE Transactions on Image Processing</i> , 2018 ,	8.7	37
127	Nonnegative Discriminant Matrix Factorization. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2017 , 27, 1392-1405	6.4	35
126	Generalized Parameter-Adjusted Stochastic Resonance of Duffing Oscillator and Its Application to Weak-Signal Detection. <i>Sensors</i> , 2015 , 15, 21327-49	3.8	35
125	Two-dimensional local graph embedding discriminant analysis (2DLGEDA) with its application to face and palm biometrics. <i>Neurocomputing</i> , 2009 , 73, 197-203	5.4	35

124	Low-Rank 2-D Neighborhood Preserving Projection for Enhanced Robust Image Representation. <i>IEEE Transactions on Cybernetics</i> , 2019 , 49, 1859-1872	10.2	35
123	Generalized Robust Regression for Jointly Sparse Subspace Learning. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2019 , 29, 756-772	6.4	34
122	Manifold discriminant regression learning for image classification. <i>Neurocomputing</i> , 2015 , 166, 475-486	5.4	32
121	. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2014 , 24, 2034-2048	6.4	28
120	Two-dimensional color uncorrelated discriminant analysis for face recognition. <i>Neurocomputing</i> , 2013 , 113, 251-261	5.4	27
119	Noisy low-tubal-rank tensor completion. <i>Neurocomputing</i> , 2019 , 330, 267-279	5.4	26
118	Granular maximum decision entropy-based monotonic uncertainty measure for attribute reduction. <i>International Journal of Approximate Reasoning</i> , 2019 , 104, 9-24	3.6	26
117	Orthogonal self-guided similarity preserving projection for classification and clustering. <i>Neural Networks</i> , 2017 , 88, 1-8	9.1	25
116	Multi-scale gist feature manifold for building recognition. <i>Neurocomputing</i> , 2011 , 74, 2929-2940	5.4	25
115	Neighborhood preserving neural network for fault detection. <i>Neural Networks</i> , 2019 , 109, 6-18	9.1	25
114	Breast cancer discriminant feature analysis for diagnosis via jointly sparse learning. <i>Neurocomputing</i> , 2016 , 177, 198-205	5.4	24
113	Adaptive Locality Preserving Regression. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2020 , 30, 75-88	6.4	24
112	Maximum decision entropy-based attribute reduction in decision-theoretic rough set model. <i>Knowledge-Based Systems</i> , 2018 , 143, 179-191	7.3	24
111	Flexible Affinity Matrix Learning for Unsupervised and Semisupervised Classification. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2019 , 30, 1133-1149	10.3	23
110	. <i>IEEE Transactions on Multimedia</i> , 2017 , 19, 2391-2403	6.6	22
109	Multiple metric learning based on bar-shape descriptor for person re-identification. <i>Pattern Recognition</i> , 2017 , 71, 218-234	7.7	20
108	Robust principal component analysis via optimal mean by joint $\ell_{2,1}$ and Schatten p-norms minimization. <i>Neurocomputing</i> , 2018 , 283, 205-213	5.4	19
107	Supervised discrete discriminant hashing for image retrieval. <i>Pattern Recognition</i> , 2018 , 78, 79-90	7.7	18

106	Projective robust nonnegative factorization. <i>Information Sciences</i> , 2016 , 364-365, 16-32	7.7	18
105	K-local hyperplane distance nearest neighbor classifier oriented local discriminant analysis. <i>Information Sciences</i> , 2013 , 232, 11-26	7.7	17
104	Fuzzy local maximal marginal embedding for feature extraction. <i>Soft Computing</i> , 2012 , 16, 77-87	3.5	17
103	Principal Component Analysis based on Nuclear norm Minimization. <i>Neural Networks</i> , 2019 , 118, 1-16	9.1	16
102	Structurally Incoherent Low-Rank 2DLPP for Image Classification. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2019 , 29, 1701-1714	6.4	16
101	Robust Jointly Sparse Regression with Generalized Orthogonal Learning for Image Feature Selection. <i>Pattern Recognition</i> , 2019 , 93, 164-178	7.7	15
100	. <i>IEEE Transactions on Multimedia</i> , 2018 , 1-1	6.6	15
99	Low-rank and sparse embedding for dimensionality reduction. <i>Neural Networks</i> , 2018 , 108, 202-216	9.1	15
98	Feature extraction using two-dimensional local graph embedding based on maximum margin criterion. <i>Applied Mathematics and Computation</i> , 2011 , 217, 9659-9668	2.7	14
97	Robust face alignment by cascaded regression and de-occlusion. <i>Neural Networks</i> , 2020 , 123, 261-272	9.1	14
96	Projected fuzzy C-means clustering with locality preservation. <i>Pattern Recognition</i> , 2021 , 113, 107748	7.7	14
95	Locality preserving embedding for face and handwriting digital recognition. <i>Neural Computing and Applications</i> , 2011 , 20, 565-573	4.8	13
94	Adaptive linear discriminant regression classification for face recognition 2016 , 55, 78-84		13
93	Low-rank adaptive graph embedding for unsupervised feature extraction. <i>Pattern Recognition</i> , 2021 , 113, 107758	7.7	13
92	Local sparsity preserving projection and its application to biometric recognition. <i>Multimedia Tools and Applications</i> , 2018 , 77, 1069-1092	2.5	12
91	Medical Image Enhancement Method Based on the Fractional Order Derivative and the Directional Derivative. <i>International Journal of Pattern Recognition and Artificial Intelligence</i> , 2018 , 32, 1857001	1.1	12
90	Local sparse representation projections for face recognition. <i>Neural Computing and Applications</i> , 2013 , 23, 2231-2239	4.8	12
89	Horizontal and Vertical Nuclear Norm-Based 2DLDA for Image Representation. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2019 , 29, 941-955	6.4	12

88	Principles for constructing three-way approximations of fuzzy sets: A comparative evaluation based on unsupervised learning. <i>Fuzzy Sets and Systems</i> , 2021 , 413, 74-98	3.7	12
87	Active AU Based Patch Weighting for Facial Expression Recognition. <i>Sensors</i> , 2017 , 17,	3.8	11
86	Robust Flexible Preserving Embedding. <i>IEEE Transactions on Cybernetics</i> , 2020 , 50, 4495-4507	10.2	11
85	Double Relaxed Regression for Image Classification. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2020 , 30, 307-319	6.4	11
84	Constrained three-way approximations of fuzzy sets: From the perspective of minimal distance. <i>Information Sciences</i> , 2019 , 502, 247-267	7.7	10
83	Learning Parts-Based and Global Representation for Image Classification. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2018 , 28, 3345-3360	6.4	10
82	Constrained shadowed sets and fast optimization algorithm. <i>International Journal of Intelligent Systems</i> , 2019 , 34, 2655-2675	8.4	9
81	Image decomposition based matrix regression with applications to robust face recognition. <i>Pattern Recognition</i> , 2020 , 102, 107204	7.7	9
80	Optimal Feature Selection for Robust Classification via $l_{2,1}$ -Norms Regularization 2014 ,		9
79	Sparse Local Discriminant Projections for Feature Extraction 2010 ,		9
78	Case study of 3D fingerprints applications. <i>PLoS ONE</i> , 2017 , 12, e0175261	3.7	9
77	Deep Supervised Hashing With Anchor Graph 2019 ,		9
76	Rough possibilistic C-means clustering based on multigranulation approximation regions and shadowed sets. <i>Knowledge-Based Systems</i> , 2018 , 160, 144-166	7.3	9
75	Feature extraction based on fuzzy class mean embedding (FCME) with its application to face and palm biometrics. <i>Machine Vision and Applications</i> , 2012 , 23, 985-997	2.8	8
74	Global Sparse Representation Projections for Feature Extraction and Classification 2009 ,		8
73	Rough-Fuzzy Clustering Based on Two-Stage Three-Way Approximations. <i>IEEE Access</i> , 2018 , 6, 27541-27554	3.4	7
72	Discriminative dual-stream deep hashing for large-scale image retrieval. <i>Information Processing and Management</i> , 2020 , 57, 102288	6.3	7
71	Binary sparse signal recovery algorithms based on logic observation. <i>Pattern Recognition</i> , 2019 , 90, 147-160	1.6	7

70	Weighted Double-Low-Rank Decomposition With Application to Fabric Defect Detection. <i>IEEE Transactions on Automation Science and Engineering</i> , 2021 , 18, 1170-1190	4.9	7
69	Robust Face Alignment by Multi-Order High-Precision Hourglass Network. <i>IEEE Transactions on Image Processing</i> , 2021 , 30, 121-133	8.7	7
68	. <i>IEEE Access</i> , 2017 , 5, 9823-9830	3.5	6
67	Bilinear Supervised Hashing Based on 2D Image Features. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2019 , 1-1	6.4	6
66	Nuclear norm based two-dimensional sparse principal component analysis. <i>International Journal of Wavelets, Multiresolution and Information Processing</i> , 2018 , 16, 1840002	0.9	6
65	Robust Low-tubal-rank Tensor Completion 2019 ,		6
64	Fisher Difference Discriminant Analysis: Determining the Effective Discriminant Subspace Dimensions for Face Recognition. <i>Neural Processing Letters</i> , 2012 , 35, 203-220	2.4	6
63	Locally Minimizing Embedding and Globally Maximizing Variance: Unsupervised Linear Difference Projection for Dimensionality Reduction. <i>Neural Processing Letters</i> , 2011 , 33, 267-282	2.4	6
62	Maximal local interclass embedding with application to face recognition. <i>Machine Vision and Applications</i> , 2011 , 22, 619-627	2.8	6
61	WaveCNet: Wavelet Integrated CNNs to Suppress Aliasing Effect for Noise-Robust Image Classification. <i>IEEE Transactions on Image Processing</i> , 2021 , 30, 7074-7089	8.7	6
60	Directional Gaussian Model for Automatic Speeding Event Detection. <i>IEEE Transactions on Information Forensics and Security</i> , 2017 , 12, 2292-2307	8	5
59	Band selection for Gabor feature based hyperspectral palmprint recognition 2015 ,		5
58	Discriminative low-rank projection for robust subspace learning. <i>International Journal of Machine Learning and Cybernetics</i> , 2020 , 11, 2247-2260	3.8	5
57	Low-rank discriminative regression learning for image classification. <i>Neural Networks</i> , 2020 , 125, 245-257.1		5
56	Sparse nonlocal priors based two-phase approach for mixed noise removal. <i>Signal Processing</i> , 2015 , 116, 101-111	4.4	5
55	. <i>IEEE Transactions on Multimedia</i> , 2020 , 1-1	6.6	5
54	Target redirected regression with dynamic neighborhood structure. <i>Information Sciences</i> , 2021 , 544, 564-584	7.7	5
53	Robust jointly sparse embedding for dimensionality reduction. <i>Neurocomputing</i> , 2018 , 314, 30-38	5.4	4

52	Graph embedding discriminant analysis for face recognition. <i>Neural Computing and Applications</i> , 2014 , 24, 1697-1706	4.8	4
51	Face Recognition Based on Wavelet Transform, Singular Value Decomposition and Kernel Principal Component Analysis 2008 ,		4
50	Local Maximal Marginal Embedding with Application to Face Recognition 2008 ,		4
49	Saliency-Guided Iterative Asymmetric Mutual Hashing for Fast Person Re-Identification. <i>IEEE Transactions on Image Processing</i> , 2021 , 30, 7776-7789	8.7	4
48	An integrated optimisation algorithm for feature extraction, dictionary learning and classification. <i>Neurocomputing</i> , 2018 , 275, 2740-2751	5.4	4
47	Nuclear norm regularized coding with local position-patch and nonlocal similarity for face hallucination 2017 , 64, 107-120		3
46	Robust Locally Discriminant Analysis via Capped Norm. <i>IEEE Access</i> , 2019 , 7, 4641-4652	3.5	3
45	New semi-supervised classification using a multi-modal feature joint L21-norm based sparse representation. <i>Signal Processing: Image Communication</i> , 2018 , 65, 94-106	2.8	3
44	. <i>IEEE Transactions on Multimedia</i> , 2019 , 21, 3038-3052	6.6	3
43	Dynamic transition embedding for image feature extraction and recognition. <i>Neural Computing and Applications</i> , 2012 , 21, 1905-1915	4.8	3
42	Generalized Embedding Regression: A Framework for Supervised Feature Extraction. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2020 , PP,	10.3	3
41	Dual robust regression for pattern classification. <i>Information Sciences</i> , 2021 , 546, 1014-1029	7.7	3
40	Locality Preserving Robust Regression for Jointly Sparse Subspace Learning. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2021 , 31, 2274-2287	6.4	3
39	Robust sparse low-rank embedding for image dimension reduction. <i>Applied Soft Computing Journal</i> , 2021 , 113, 107907	7.5	3
38	Robust Facial Landmark Detection by Multiorder Multiconstraint Deep Networks. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2021 , PP,	10.3	3
37	Joint Optimal Transport With Convex Regularization for Robust Image Classification. <i>IEEE Transactions on Cybernetics</i> , 2020 , PP,	10.2	2
36	Joint Sparse Locality Preserving Projections. <i>Lecture Notes in Computer Science</i> , 2018 , 125-133	0.9	2
35	An improve face representation and recognition method based on graph regularized non-negative matrix factorization. <i>Multimedia Tools and Applications</i> , 2019 , 78, 22109-22126	2.5	2

34	Dimension reduction using kernel collaborative representation based projection. <i>AEU - International Journal of Electronics and Communications</i> , 2017 , 81, 23-30	2.8	2
33	Orthogonal self-guided similarity preserving projections 2015 ,		2
32	Fashion Outfit Style Retrieval Based on Hashing Method. <i>Advances in Intelligent Systems and Computing</i> , 2019 , 187-195	0.4	2
31	Robust Jointly Sparse Fuzzy Clustering with Neighborhood Structure Preservation. <i>IEEE Transactions on Fuzzy Systems</i> , 2021 , 1-1	8.3	2
30	Robust Jointly Sparse Regression for Image Feature Selection 2017 ,		1
29	Optimal representation set construction with a competitive scheme for palmprint and face recognition. <i>International Journal of Computer Mathematics</i> , 2014 , 91, 2341-2358	1.2	1
28	Sparse embedding visual attention system combined with edge information. <i>AEU - International Journal of Electronics and Communications</i> , 2011 , 65, 1061-1068	2.8	1
27	Tangent space discriminant analysis for feature extraction 2010 ,		1
26	Locality Preserving Embedding 2009 ,		1
25	Sparse Nuclear Norm Two Dimensional Principal Component Analysis. <i>Lecture Notes in Computer Science</i> , 2016 , 547-555	0.9	1
24	Robust Discriminative Principal Component Analysis. <i>Lecture Notes in Computer Science</i> , 2018 , 231-238	0.9	1
23	. <i>IEEE Transactions on Multimedia</i> , 2020 , 22, 1298-1309	6.6	1
22	Relaxed local preserving regression for image feature extraction. <i>Multimedia Tools and Applications</i> , 2021 , 80, 3729-3748	2.5	1
21	. <i>IEEE Transactions on Multimedia</i> , 2021 , 1-1	6.6	1
20	Learning Dynamic Relationships for Facial Expression Recognition Based on Graph Convolutional Network. <i>IEEE Transactions on Image Processing</i> , 2021 , 30, 7143-7155	8.7	1
19	. <i>IEEE Transactions on Multimedia</i> , 2021 , 1-1	6.6	1
18	Concentrated hashing with neighborhood embedding for image retrieval and classification. <i>International Journal of Machine Learning and Cybernetics</i> ,1	3.8	0
17	Global structure-guided neighborhood preserving embedding for dimensionality reduction. <i>International Journal of Machine Learning and Cybernetics</i> ,1	3.8	0

16	. <i>IEEE Transactions on Multimedia</i> , 2020 , 22, 2873-2888	6.6	o
15	Relaxed Locality Preserving Supervised Discrete Hashing. <i>IEEE Transactions on Big Data</i> , 2020 , 1-1	3.2	o
14	Two-dimensional jointly sparse robust discriminant regression. <i>Signal Processing: Image Communication</i> , 2021 , 98, 116391	2.8	o
13	. <i>IEEE Transactions on Multimedia</i> , 2021 , 1-1	6.6	o
12	Saliency-Based Person Re-identification by Probability Histogram. <i>Lecture Notes in Computer Science</i> , 2017 , 315-329	0.9	
11	Robust jointly sparse regression and its applications. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2018 , 9, 1797-1807	3.7	
10	Unsupervised multi-manifold linear differential projection(UMLDP) for face recognition. <i>Multimedia Tools and Applications</i> , 2018 , 77, 3795-3811	2.5	
9	Facial Expression Recognition Based on Depth Fusion and Discriminative Association Learning. <i>Neural Processing Letters</i> ,1	2.4	
8	Nuclear-Norm-Based Jointly Sparse Regression for Two-Dimensional Image Regression. <i>Lecture Notes in Computer Science</i> , 2020 , 355-368	0.9	
7	Sparse Feature Learning. <i>Information Fusion and Data Science</i> , 2020 , 103-133	0.3	
6	Robust Embedding Regression for Face Recognition. <i>Lecture Notes in Computer Science</i> , 2019 , 102-113	0.9	
5	Tensor-Based Feature Learning. <i>Information Fusion and Data Science</i> , 2020 , 161-193	0.3	
4	Low Rank Feature Learning. <i>Information Fusion and Data Science</i> , 2020 , 135-160	0.3	
3	Jointly Sparse Reconstructed Regression Learning. <i>Lecture Notes in Computer Science</i> , 2018 , 597-609	0.9	
2	Fast Deep Asymmetric Hashing for Image Retrieval. <i>Lecture Notes in Computer Science</i> , 2022 , 411-420	0.9	
1	Low-Rank Correlation Analysis for Discriminative Subspace Learning. <i>Lecture Notes in Computer Science</i> , 2022 , 87-100	0.9	