Zhihui Lai

List of Publications by Year in Descending Order

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	Fast Deep Asymmetric Hashing for Image Retrieval. *Lecture Notes in Computer Science*, **2022**, 411-420	0.9	
158	Low-Rank Correlation Analysis for Discriminative Subspace Learning. *Lecture Notes in Computer Science*, **2022**, 87-100	0.9	
157	Weighted Double-Low-Rank Decomposition With Application to Fabric Defect Detection. *IEEE Transactions on Automation Science and Engineering*, **2021**, 18, 1170-1190	4.9	7
156	Dual robust regression for pattern classification. *Information Sciences*, **2021**, 546, 1014-1029	7.7	3
155	Relaxed local preserving regression for image feature extraction. *Multimedia Tools and Applications*, **2021**, 80, 3729-3748	2.5	1
154	Projected fuzzy C-means clustering with locality preservation. *Pattern Recognition*, **2021**, 113, 107748	7.7	14
153	Principles for constructing three-way approximations of fuzzy sets: A comparative evaluation based on unsupervised learning. *Fuzzy Sets and Systems*, **2021**, 413, 74-98	3.7	12
152	Low-rank adaptive graph embedding for unsupervised feature extraction. *Pattern Recognition*, **2021**, 113, 107758	7.7	13
151	Target redirected regression with dynamic neighborhood structure. *Information Sciences*, **2021**, 544, 564-584	7.7	5
150	Locality Preserving Robust Regression for Jointly Sparse Subspace Learning. *IEEE Transactions on Circuits and Systems for Video Technology*, **2021**, 31, 2274-2287	6.4	3
149	Robust Face Alignment by Multi-Order High-Precision Hourglass Network. *IEEE Transactions on Image Processing*, **2021**, 30, 121-133	8.7	7
148	WaveCNet: Wavelet Integrated CNNs to Suppress Aliasing Effect for Noise-Robust Image Classification. *IEEE Transactions on Image Processing*, **2021**, 30, 7074-7089	8.7	6
147	Salience-Guided Iterative Asymmetric Mutual Hashing for Fast Person Re-Identification. *IEEE Transactions on Image Processing*, **2021**, 30, 7776-7789	8.7	4
146	Two-dimensional jointly sparse robust discriminant regression. *Signal Processing: Image Communication*, **2021**, 98, 116391	2.8	0
145	Robust sparse low-rank embedding for image dimension reduction. *Applied Soft Computing Journal*, **2021**, 113, 107907	7.5	3
144	. *IEEE Transactions on Multimedia*, **2021**, 1-1	6.6	1
143	Robust Facial Landmark Detection by Multiorder Multiconstraint Deep Networks. *IEEE Transactions on Neural Networks and Learning Systems*, **2021**, PP,	10.3	3

142	. *IEEE Transactions on Multimedia*, **2021**, 1-1	6.6	0
141	Learning Dynamic Relationships for Facial Expression Recognition Based on Graph Convolutional Network. *IEEE Transactions on Image Processing*, **2021**, 30, 7143-7155	8.7	1
140	. *IEEE Transactions on Multimedia*, **2021**, 1-1	6.6	1
139	Robust Jointly Sparse Fuzzy Clustering with Neighborhood Structure Preservation. *IEEE Transactions on Fuzzy Systems*, **2021**, 1-1	8.3	2
138	Joint Optimal Transport With Convex Regularization for Robust Image Classification. *IEEE Transactions on Cybernetics*, **2020**, PP,	10.2	2
137	Discriminative low-rank projection for robust subspace learning. *International Journal of Machine Learning and Cybernetics*, **2020**, 11, 2247-2260	3.8	5
136	Image decomposition based matrix regression with applications to robust face recognition. *Pattern Recognition*, **2020**, 102, 107204	7.7	9
135	Low-rank discriminative regression learning for image classification. *Neural Networks*, **2020**, 125, 245-257	9.1	5
134	Generalized Embedding Regression: A Framework for Supervised Feature Extraction. *IEEE Transactions on Neural Networks and Learning Systems*, **2020**, PP,	10.3	3
133	Nuclear-Norm-Based Jointly Sparse Regression for Two-Dimensional Image Regression. *Lecture Notes in Computer Science*, **2020**, 355-368	0.9	
132	Sparse Feature Learning. *Information Fusion and Data Science*, **2020**, 103-133	0.3	
131	Tensor-Based Feature Learning. *Information Fusion and Data Science*, **2020**, 161-193	0.3	
130	Low Rank Feature Learning. *Information Fusion and Data Science*, **2020**, 135-160	0.3	
129	Structured optimal graph based sparse feature extraction for semi-supervised learning. *Signal Processing*, **2020**, 170, 107456	4.4	76
128	. *IEEE Transactions on Multimedia*, **2020**, 22, 2873-2888	6.6	0
127	Robust Flexible Preserving Embedding. *IEEE Transactions on Cybernetics*, **2020**, 50, 4495-4507	10.2	11
126	Robust face alignment by cascaded regression and de-occlusion. *Neural Networks*, **2020**, 123, 261-272	9.1	14
125	Discriminative dual-stream deep hashing for large-scale image retrieval. *Information Processing and Management*, **2020**, 57, 102288	6.3	7

124	. *IEEE Transactions on Multimedia*, **2020**, 1-1	6.6	5
123	Relaxed Locality Preserving Supervised Discrete Hashing. *IEEE Transactions on Big Data*, **2020**, 1-1	3.2	0
122	Adaptive Locality Preserving Regression. *IEEE Transactions on Circuits and Systems for Video Technology*, **2020**, 30, 75-88	6.4	24
121	Double Relaxed Regression for Image Classification. *IEEE Transactions on Circuits and Systems for Video Technology*, **2020**, 30, 307-319	6.4	11
120	Multigranulation rough-fuzzy clustering based on shadowed sets. *Information Sciences*, **2020**, 507, 553-573	7.7	40
119	. *IEEE Transactions on Multimedia*, **2020**, 22, 1298-1309	6.6	1
118	Constrained shadowed sets and fast optimization algorithm. *International Journal of Intelligent Systems*, **2019**, 34, 2655-2675	8.4	9
117	Bilinear Supervised Hashing Based on 2D Image Features. *IEEE Transactions on Circuits and Systems for Video Technology*, **2019**, 1-1	6.4	6
116	Constrained three-way approximations of fuzzy sets: From the perspective of minimal distance. *Information Sciences*, **2019**, 502, 247-267	7.7	10
115	Principal Component Analysis based on Nuclear norm Minimization. *Neural Networks*, **2019**, 118, 1-16	9.1	16
114	Robust Jointly Sparse Regression with Generalized Orthogonal Learning for Image Feature Selection. *Pattern Recognition*, **2019**, 93, 164-178	7.7	15
113	Robust Locally Discriminant Analysis via Capped Norm. *IEEE Access*, **2019**, 7, 4641-4652	3.5	3
112	Flexible Affinity Matrix Learning for Unsupervised and Semisupervised Classification. *IEEE Transactions on Neural Networks and Learning Systems*, **2019**, 30, 1133-1149	10.3	23
111	Structurally Incoherent Low-Rank 2DLPP for Image Classification. *IEEE Transactions on Circuits and Systems for Video Technology*, **2019**, 29, 1701-1714	6.4	16
110	Generalized Robust Regression for Jointly Sparse Subspace Learning. *IEEE Transactions on Circuits and Systems for Video Technology*, **2019**, 29, 756-772	6.4	34
109	An improve face representation and recognition method based on graph regularized non-negative matrix factorization. *Multimedia Tools and Applications*, **2019**, 78, 22109-22126	2.5	2
108	Robust Low-tubal-rank Tensor Completion **2019**,		6
107	. *IEEE Transactions on Multimedia*, **2019**, 21, 3038-3052	6.6	3

106	Scalable Supervised Asymmetric Hashing With Semantic and Latent Factor Embedding. *IEEE Transactions on Image Processing*, **2019**, 28, 4803-4818	8.7	48
105	Robust Embedding Regression for Face Recognition. *Lecture Notes in Computer Science*, **2019**, 102-113	0.9	
104	Binary sparse signal recovery algorithms based on logic observation. *Pattern Recognition*, **2019**, 90, 147-160	7.7	7
103	Deep Supervised Hashing With Anchor Graph **2019**,		9
102	Noisy low-tubal-rank tensor completion. *Neurocomputing*, **2019**, 330, 267-279	5.4	26
101	Fashion Outfit Style Retrieval Based on Hashing Method. *Advances in Intelligent Systems and Computing*, **2019**, 187-195	0.4	2
100	Granular maximum decision entropy-based monotonic uncertainty measure for attribute reduction. *International Journal of Approximate Reasoning*, **2019**, 104, 9-24	3.6	26
99	Neighborhood preserving neural network for fault detection. *Neural Networks*, **2019**, 109, 6-18	9.1	25
98	Low-Rank 2-D Neighborhood Preserving Projection for Enhanced Robust Image Representation. *IEEE Transactions on Cybernetics*, **2019**, 49, 1859-1872	10.2	35
97	Horizontal and Vertical Nuclear Norm-Based 2DLDA for Image Representation. *IEEE Transactions on Circuits and Systems for Video Technology*, **2019**, 29, 941-955	6.4	12
96	Approximate Low-Rank Projection Learning for Feature Extraction. *IEEE Transactions on Neural Networks and Learning Systems*, **2018**, 29, 5228-5241	10.3	56
95	Supervised discrete discriminant hashing for image retrieval. *Pattern Recognition*, **2018**, 78, 79-90	7.7	18
94	Joint Sparse Locality Preserving Projections. *Lecture Notes in Computer Science*, **2018**, 125-133	0.9	2
93	Robust principal component analysis via optimal mean by joint ℓ2,1 and Schatten p-norms minimization. *Neurocomputing*, **2018**, 283, 205-213	5.4	19
92	Robust jointly sparse regression and its applications. *Journal of Ambient Intelligence and Humanized Computing*, **2018**, 9, 1797-1807	3.7	
91	New semi-supervised classification using a multi-modal feature joint L21-norm based sparse representation. *Signal Processing: Image Communication*, **2018**, 65, 94-106	2.8	3
90	Nuclear norm based two-dimensional sparse principal component analysis. *International Journal of Wavelets, Multiresolution and Information Processing*, **2018**, 16, 1840002	0.9	6
89	Unsupervised multi-manifold linear differential projection(UMLDP) for face recognition. *Multimedia Tools and Applications*, **2018**, 77, 3795-3811	2.5	

88	Local sparsity preserving projection and its application to biometric recognition. *Multimedia Tools and Applications*, **2018**, 77, 1069-1092	2.5	12
87	Regularized Label Relaxation Linear Regression. *IEEE Transactions on Neural Networks and Learning Systems*, **2018**, 29, 1006-1018	10.3	54
86	Robust Latent Subspace Learning for Image Classification. *IEEE Transactions on Neural Networks and Learning Systems*, **2018**, 29, 2502-2515	10.3	48
85	Medical Image Enhancement Method Based on the Fractional Order Derivative and the Directional Derivative. *International Journal of Pattern Recognition and Artificial Intelligence*, **2018**, 32, 1857001	1.1	12
84	Robust Discriminant Regression for Feature Extraction. *IEEE Transactions on Cybernetics*, **2018**, 48, 2472-2484	10.3	43
83	Robust jointly sparse embedding for dimensionality reduction. *Neurocomputing*, **2018**, 314, 30-38	5.4	4
82	. *IEEE Transactions on Multimedia*, **2018**, 1-1	6.6	15
81	Learning Parts-Based and Global Representation for Image Classification. *IEEE Transactions on Circuits and Systems for Video Technology*, **2018**, 28, 3345-3360	6.4	10
80	Rough-Fuzzy Clustering Based on Two-Stage Three-Way Approximations. *IEEE Access*, **2018**, 6, 27541-27554	3.9	7
79	Low-rank and sparse embedding for dimensionality reduction. *Neural Networks*, **2018**, 108, 202-216	9.1	15
78	Robust Discriminative Principal Component Analysis. *Lecture Notes in Computer Science*, **2018**, 231-238	0.9	1
77	An integrated optimisation algorithm for feature extraction, dictionary learning and classification. *Neurocomputing*, **2018**, 275, 2740-2751	5.4	4
76	Maximum decision entropy-based attribute reduction in decision-theoretic rough set model. *Knowledge-Based Systems*, **2018**, 143, 179-191	7.3	24
75	Jointly Sparse Reconstructed Regression Learning. *Lecture Notes in Computer Science*, **2018**, 597-609	0.9	
74	Jointly Sparse Hashing for Image Retrieval. *IEEE Transactions on Image Processing*, **2018**,	8.7	37
73	Rough possibilistic C-means clustering based on multigranulation approximation regions and shadowed sets. *Knowledge-Based Systems*, **2018**, 160, 144-166	7.3	9
72	A Locality-Constrained and Label Embedding Dictionary Learning Algorithm for Image Classification. *IEEE Transactions on Neural Networks and Learning Systems*, **2017**, 28, 278-293	10.3	110
71	Local graph embedding based on maximum margin criterion via fuzzy set. *Fuzzy Sets and Systems*, **2017**, 318, 120-131	3.7	39

70	Nonnegative Discriminant Matrix Factorization. *IEEE Transactions on Circuits and Systems for Video Technology*, **2017**, 27, 1392-1405	6.4	35
69	Rotational Invariant Dimensionality Reduction Algorithms. *IEEE Transactions on Cybernetics*, **2017**, 47, 3733-3746	10.2	72
68	Discriminative Elastic-Net Regularized Linear Regression. *IEEE Transactions on Image Processing*, **2017**, 26, 1466-1481	8.7	92
67	Orthogonal self-guided similarity preserving projection for classification and clustering. *Neural Networks*, **2017**, 88, 1-8	9.1	25
66	Nuclear norm regularized coding with local position-patch and nonlocal similarity for face hallucination **2017**, 64, 107-120		3
65	Low-Rank Embedding for Robust Image Feature Extraction. *IEEE Transactions on Image Processing*, **2017**, 26, 2905-2917	8.7	79
64	Saliency-Based Person Re-identification by Probability Histogram. *Lecture Notes in Computer Science*, **2017**, 315-329	0.9	
63	. *IEEE Transactions on Multimedia*, **2017**, 19, 2391-2403	6.6	22
62	. *IEEE Access*, **2017**, 5, 9823-9830	3.5	6
61	Directional Gaussian Model for Automatic Speeding Event Detection. *IEEE Transactions on Information Forensics and Security*, **2017**, 12, 2292-2307	8	5
60	Multiple metric learning based on bar-shape descriptor for person re-identification. *Pattern Recognition*, **2017**, 71, 218-234	7.7	20
59	Dimension reduction using kernel collaborative representation based projection. *AEU - International Journal of Electronics and Communications*, **2017**, 81, 23-30	2.8	2
58	Joint sparse principal component analysis. *Pattern Recognition*, **2017**, 61, 524-536	7.7	128
57	Robust Jointly Sparse Regression for Image Feature Selection **2017**,		1
56	Active AU Based Patch Weighting for Facial Expression Recognition. *Sensors*, **2017**, 17,	3.8	11
55	Case study of 3D fingerprints applications. *PLoS ONE*, **2017**, 12, e0175261	3.7	9
54	Robust Semi-Supervised Subspace Clustering via Non-Negative Low-Rank Representation. *IEEE Transactions on Cybernetics*, **2016**, 46, 1828-38	10.2	76
53	Low-Rank Preserving Projections. *IEEE Transactions on Cybernetics*, **2016**, 46, 1900-13	10.2	107

52	Approximate Orthogonal Sparse Embedding for Dimensionality Reduction. *IEEE Transactions on Neural Networks and Learning Systems*, **2016**, 27, 723-35	10.3	135
51	The L2,1-norm-based unsupervised optimal feature selection with applications to action recognition. *Pattern Recognition*, **2016**, 60, 515-530	7.7	39
50	Breast cancer discriminant feature analysis for diagnosis via jointly sparse learning. *Neurocomputing* , **2016**, 177, 198-205	5.4	24
49	A Truncated Nuclear Norm Regularization Method Based on Weighted Residual Error for Matrix Completion. *IEEE Transactions on Image Processing*, **2016**, 25, 316-30	8.7	45
48	Sparse Nuclear Norm Two Dimensional Principal Component Analysis. *Lecture Notes in Computer Science*, **2016**, 547-555	0.9	1
47	Projective robust nonnegative factorization. *Information Sciences*, **2016**, 364-365, 16-32	7.7	18
46	Adaptive linear discriminant regression classification for face recognition **2016**, 55, 78-84		13
45	Band selection for Gabor feature based hyperspectral palmprint recognition **2015**,		5
44	A framework of joint graph embedding and sparse regression for dimensionality reduction. *IEEE Transactions on Image Processing*, **2015**, 24, 1341-55	8.7	48
43	Manifold discriminant regression learning for image classification. *Neurocomputing*, **2015**, 166, 475-486	5.4	32
42	Joint Tensor Feature Analysis For Visual Object Recognition. *IEEE Transactions on Cybernetics*, **2015**, 45, 2425-36	10.2	81
41	Generalized Parameter-Adjusted Stochastic Resonance of Duffing Oscillator and Its Application to Weak-Signal Detection. *Sensors*, **2015**, 15, 21327-49	3.8	35
40	Sparse nonlocal priors based two-phase approach for mixed noise removal. *Signal Processing*, **2015**, 116, 101-111	4.4	5
39	Learning a Nonnegative Sparse Graph for Linear Regression. *IEEE Transactions on Image Processing*, **2015**, 24, 2760-71	8.7	56
38	Orthogonal self-guided similarity preserving projections **2015**,		2
37	Face recognition by sparse discriminant analysis via joint L2,1-norm minimization. *Pattern Recognition*, **2014**, 47, 2447-2453	7.7	101
36	Sparse alignment for robust tensor learning. *IEEE Transactions on Neural Networks and Learning Systems*, **2014**, 25, 1779-92	10.3	60
35	Integrating conventional and inverse representation for face recognition. *IEEE Transactions on Cybernetics*, **2014**, 44, 1738-46	10.2	88

34	. *IEEE Transactions on Circuits and Systems for Video Technology*, **2014**, 24, 1651-1662	6.4	80
33	Modified principal component analysis: an integration of multiple similarity subspace models. *IEEE Transactions on Neural Networks and Learning Systems*, **2014**, 25, 1538-52	10.3	44
32	Multilinear sparse principal component analysis. *IEEE Transactions on Neural Networks and Learning Systems*, **2014**, 25, 1942-50	10.3	158
31	Optimal Feature Selection for Robust Classification via l2,1-Norms Regularization **2014**,		9
30	Optimal representation set construction with a competitive scheme for palmprint and face recognition. *International Journal of Computer Mathematics*, **2014**, 91, 2341-2358	1.2	1
29	. *IEEE Transactions on Circuits and Systems for Video Technology*, **2014**, 24, 2034-2048	6.4	28
28	Graph embedding discriminant analysis for face recognition. *Neural Computing and Applications*, **2014**, 24, 1697-1706	4.8	4
27	Local sparse representation projections for face recognition. *Neural Computing and Applications*, **2013**, 23, 2231-2239	4.8	12
26	K-local hyperplane distance nearest neighbor classifier oriented local discriminant analysis. *Information Sciences*, **2013**, 232, 11-26	7.7	17
25	Using the idea of the sparse representation to perform coarse-to-fine face recognition. *Information Sciences*, **2013**, 238, 138-148	7.7	108
24	Two-dimensional color uncorrelated discriminant analysis for face recognition. *Neurocomputing*, **2013**, 113, 251-261	5.4	27
23	Sparse tensor discriminant analysis. *IEEE Transactions on Image Processing*, **2013**, 22, 3904-15	8.7	100
22	Fuzzy local maximal marginal embedding for feature extraction. *Soft Computing*, **2012**, 16, 77-87	3.5	17
21	Feature extraction based on fuzzy class mean embedding (FCME) with its application to face and palm biometrics. *Machine Vision and Applications*, **2012**, 23, 985-997	2.8	8
20	Dynamic transition embedding for image feature extraction and recognition. *Neural Computing and Applications*, **2012**, 21, 1905-1915	4.8	3
19	Sparse approximation to the eigensubspace for discrimination. *IEEE Transactions on Neural Networks and Learning Systems*, **2012**, 23, 1948-60	10.3	53
18	Fisher Difference Discriminant Analysis: Determining the Effective Discriminant Subspace Dimensions for Face Recognition. *Neural Processing Letters*, **2012**, 35, 203-220	2.4	6
17	Sparse two-dimensional local discriminant projections for feature extraction. *Neurocomputing*, **2011**, 74, 629-637	5.4	44

16	Multi-scale gist feature manifold for building recognition. *Neurocomputing*, **2011**, 74, 2929-2940	5.4	25
15	Sparse embedding visual attention system combined with edge information. *AEU - International Journal of Electronics and Communications*, **2011**, 65, 1061-1068	2.8	1
14	Locally Minimizing Embedding and Globally Maximizing Variance: Unsupervised Linear Difference Projection for Dimensionality Reduction. *Neural Processing Letters*, **2011**, 33, 267-282	2.4	6
13	Locality preserving embedding for face and handwriting digital recognition. *Neural Computing and Applications*, **2011**, 20, 565-573	4.8	13
12	Maximal local interclass embedding with application to face recognition. *Machine Vision and Applications*, **2011**, 22, 619-627	2.8	6
11	Feature extraction using two-dimensional local graph embedding based on maximum margin criterion. *Applied Mathematics and Computation*, **2011**, 217, 9659-9668	2.7	14
10	Tangent space discriminant analysis for feature extraction **2010**,		1
9	Sparse Local Discriminant Projections for Feature Extraction **2010**,		9
8	Locality Preserving Embedding **2009**,		1
7	Two-dimensional local graph embedding discriminant analysis (2DLGEDA) with its application to face and palm biometrics. *Neurocomputing*, **2009**, 73, 197-203	5.4	35
6	Global Sparse Representation Projections for Feature Extraction and Classification **2009**,		8
5	Face Recognition Based on Wavelet Transform, Singular Value Decomposition and Kernel Principal Component Analysis **2008**,		4
4	Local Maximal Marginal Embedding with Application to Face Recognition **2008**,		4
3	Facial Expression Recognition Based on Depth Fusion and Discriminative Association Learning. *Neural Processing Letters*,1	2.4	
2	Concentrated hashing with neighborhood embedding for image retrieval and classification. *International Journal of Machine Learning and Cybernetics*,1	3.8	0
1	Global structure-guided neighborhood preserving embedding for dimensionality reduction. *International Journal of Machine Learning and Cybernetics*,1	3.8	0