

Jian Yang

List of Publications by Year in descending order

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132
papers

12,758
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53939

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all docs

134
docs citations

134
times ranked

7799
citing authors

#	ARTICLE	IF	CITATIONS
1	Global Convergence Guarantees of (A)GIST for a Family of Nonconvex Sparse Learning Problems. IEEE Transactions on Cybernetics, 2022, 52, 3276-3288.	6.2	15
2	Joint Optimal Transport With Convex Regularization for Robust Image Classification. IEEE Transactions on Cybernetics, 2022, 52, 1553-1564.	6.2	15
3	Hierarchical Deep CNN Feature Set-Based Representation Learning for Robust Cross-Resolution Face Recognition. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 2550-2560.	5.6	28
4	Autoencoder-Based Latent Block-Diagonal Representation for Subspace Clustering. IEEE Transactions on Cybernetics, 2022, 52, 5408-5418.	6.2	9
5	\hat{l} -Norm-Based Robust Regression With Applications to Image Analysis. IEEE Transactions on Cybernetics, 2021, 51, 3371-3383.	6.2	7
6	Dual robust regression for pattern classification. Information Sciences, 2021, 546, 1014-1029.	4.0	10
7	Constructing multilayer locality-constrained matrix regression framework for noise robust face super-resolution. Pattern Recognition, 2021, 110, 107539.	5.1	29
8	Learnable low-rank latent dictionary for subspace clustering. Pattern Recognition, 2021, 120, 108142.	5.1	17
9	Image decomposition based matrix regression with applications to robust face recognition. Pattern Recognition, 2020, 102, 107204.	5.1	17
10	Nesting-structured nuclear norm minimization for spatially correlated matrix variate. Pattern Recognition, 2019, 91, 147-161.	5.1	1
11	Scalable Proximal Jacobian Iteration Method With Global Convergence Analysis for Nonconvex Unconstrained Composite Optimizations. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 2825-2839.	7.2	22
12	Adaptive weighted nonnegative low-rank representation. Pattern Recognition, 2018, 81, 326-340.	5.1	88
13	Approximate Low-Rank Projection Learning for Feature Extraction. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 5228-5241.	7.2	84
14	An adaptive line search scheme for approximated nuclear norm based matrix regression. Neurocomputing, 2018, 289, 23-31.	3.5	3
15	Marginal Representation Learning With Graph Structure Self-Adaptation. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 4645-4659.	7.2	58
16	Discriminative Block-Diagonal Representation Learning for Image Recognition. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 3111-3125.	7.2	104
17	FSRNet: End-to-End Learning Face Super-Resolution with Facial Priors. , 2018, , .		308
18	Nonparametric Bayesian Correlated Group Regression With Applications to Image Classification. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 5330-5344.	7.2	12

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19	A Locality-Constrained and Label Embedding Dictionary Learning Algorithm for Image Classification. IEEE Transactions on Neural Networks and Learning Systems, 2017, 28, 278-293.	7.2	149
20	Nuclear Norm Based Matrix Regression with Applications to Face Recognition with Occlusion and Illumination Changes. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2017, 39, 156-171.	9.7	273
21	Weighted sparse coding regularized nonconvex matrix regression for robust face recognition. Information Sciences, 2017, 394-395, 1-17.	4.0	27
22	Bi-weighted robust matrix regression for face recognition. Neurocomputing, 2017, 237, 375-387.	3.5	6
23	Kernel orthogonal Procrustes regression for face recognition across pose. Neurocomputing, 2017, 239, 122-129.	3.5	2
24	A Survey of Dictionary Learning Algorithms for Face Recognition. IEEE Access, 2017, 5, 8502-8514.	2.6	115
25	Nonconvex relaxation based matrix regression for face recognition with structural noise and mixed noise. Neurocomputing, 2017, 269, 188-198.	3.5	21
26	Learning robust and discriminative low-rank representations for face recognition with occlusion. Pattern Recognition, 2017, 66, 129-143.	5.1	95
27	Fisher discrimination dictionary pair learning for image classification. Neurocomputing, 2017, 269, 13-20.	3.5	26
28	A New Discriminative Sparse Representation Method for Robust Face Recognition via l_2 Regularization. IEEE Transactions on Neural Networks and Learning Systems, 2017, 28, 2233-2242.	7.2	151
29	Category-specific object segmentation via unsupervised discriminant shape. Pattern Recognition, 2017, 64, 202-214.	5.1	2
30	Robust Face Hallucination via Locality-Constrained Nuclear Norm Regularized Regression. Lecture Notes in Computer Science, 2017, , 249-258.	1.0	0
31	Adaptive noise dictionary construction via IRRPCA for face recognition. Pattern Recognition, 2016, 59, 26-41.	5.1	13
32	Tree-Structured Nuclear Norm Approximation With Applications to Robust Face Recognition. IEEE Transactions on Image Processing, 2016, 25, 5757-5767.	6.0	15
33	Learning Fast Low-Rank Projection for Image Classification. IEEE Transactions on Image Processing, 2016, 25, 4803-4814.	6.0	26
34	Can the Virtual Labels Obtained by Traditional LP Approaches Be Well Encoded in WLR?. IEEE Transactions on Neural Networks and Learning Systems, 2016, 27, 1591-1598.	7.2	18
35	Robust Joint Feature Weights Learning Framework. IEEE Transactions on Knowledge and Data Engineering, 2016, 28, 1327-1339.	4.0	27
36	Approximately symmetrical face images for image preprocessing in face recognition and sparse representation based classification. Pattern Recognition, 2016, 54, 68-82.	5.1	135

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37	Learning discriminative singular value decomposition representation for face recognition. Pattern Recognition, 2016, 50, 1-16.	5.1	21
38	Robust Face Recognition via Multi-Scale Patch-Based Matrix Regression. PLoS ONE, 2016, 11, e0159945.	1.1	4
39	Local feature embedding for supervised image classification. , 2015, , .		0
40	Nuclear Norm-Based 2-DPCA for Extracting Features From Images. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 2247-2260.	7.2	76
41	A Survey of Sparse Representation: Algorithms and Applications. IEEE Access, 2015, 3, 490-530.	2.6	888
42	Matrix Variate Distribution-Induced Sparse Representation for Robust Image Classification. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 2291-2300.	7.2	34
43	Nuclear-L1 norm joint regression for face reconstruction and recognition with mixed noise. Pattern Recognition, 2015, 48, 3811-3824.	5.1	44
44	Bayesian sample steered discriminative regression for biometric image classification. Applied Soft Computing Journal, 2015, 37, 48-59.	4.1	79
45	Mixed noise removal by weighted low rank model. Neurocomputing, 2015, 151, 817-826.	3.5	24
46	Nearest orthogonal matrix representation for face recognition. Neurocomputing, 2015, 151, 471-480.	3.5	16
47	General Regression and Representation Model for Classification. PLoS ONE, 2014, 9, e115214.	1.1	2
48	Nuclear Norm Regularized Sparse Coding. , 2014, , .		10
49	Robust Subspace Segmentation Via Low-Rank Representation. IEEE Transactions on Cybernetics, 2014, 44, 1432-1445.	6.2	120
50	An Improved Linear Discriminant Analysis with L1-Norm for Robust Feature Extraction. , 2014, , .		22
51	Learning image manifold using neighboring similarity integration. , 2014, , .		2
52	Unsupervised Discriminant Canonical Correlation Analysis for Feature Fusion. , 2014, , .		6
53	Learning image manifold via local tensor subspace alignment. Neurocomputing, 2014, 139, 22-33.	3.5	2
54	Median-“mean line based discriminant analysis. Neurocomputing, 2014, 123, 233-246.	3.5	17

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55	A General Exponential Framework for Dimensionality Reduction. IEEE Transactions on Image Processing, 2014, 23, 920-930.	6.0	65
56	Integrate the original face image and its mirror image for face recognition. Neurocomputing, 2014, 131, 191-199.	3.5	84
57	Mixed Noise Removal by Weighted Encoding With Sparse Nonlocal Regularization. IEEE Transactions on Image Processing, 2014, 23, 2651-2662.	6.0	182
58	Histogram of visual words based on locally adaptive regression kernels descriptors for image feature extraction. Neurocomputing, 2014, 129, 516-527.	3.5	5
59	Integrating Conventional and Inverse Representation for Face Recognition. IEEE Transactions on Cybernetics, 2014, 44, 1738-1746.	6.2	107
60	Modified Principal Component Analysis: An Integration of Multiple Similarity Subspace Models. IEEE Transactions on Neural Networks and Learning Systems, 2014, 25, 1538-1552.	7.2	54
61	Multilinear Sparse Principal Component Analysis. IEEE Transactions on Neural Networks and Learning Systems, 2014, 25, 1942-1950.	7.2	176
62	A novel sparse representation based framework for face image super-resolution. Neurocomputing, 2014, 134, 92-99.	3.5	38
63	Schatten p-Norm Based Matrix Regression Model for Image Classification. Communications in Computer and Information Science, 2014, , 140-150.	0.4	1
64	Regularized least squares fisher linear discriminant with applications to image recognition. Neurocomputing, 2013, 122, 521-534.	3.5	12
65	Local Structure-Based Image Decomposition for Feature Extraction With Applications to Face Recognition. IEEE Transactions on Image Processing, 2013, 22, 3591-3603.	6.0	40
66	Sparse maximum margin discriminant analysis for feature extraction and gene selection on gene expression data. Computers in Biology and Medicine, 2013, 43, 933-941.	3.9	29
67	Discriminative histograms of local dominant orientation (D-HLDO) for biometric image feature extraction. Pattern Recognition, 2013, 46, 2724-2739.	5.1	49
68	Nuclear Norm Based 2DPCA. , 2013, , .		3
69	Complete large margin linear discriminant analysis using mathematical programming approach. Pattern Recognition, 2013, 46, 1579-1594.	5.1	25
70	K-local hyperplane distance nearest neighbor classifier oriented local discriminant analysis. Information Sciences, 2013, 232, 11-26.	4.0	18
71	Learning protein multi-view features in complex space. Amino Acids, 2013, 44, 1365-1379.	1.2	19
72	Regularized Robust Coding for Face Recognition. IEEE Transactions on Image Processing, 2013, 22, 1753-1766.	6.0	243

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73	Sparse Representation Classifier Steered Discriminative Projection With Applications to Face Recognition. IEEE Transactions on Neural Networks and Learning Systems, 2013, 24, 1023-1035.	7.2	184
74	Sparse tensor discriminant analysis. IEEE Transactions on Image Processing, 2013, 22, 3904-3915.	6.0	110
75	Design and Implementation of a Bimodal Face Recognition System. Lecture Notes in Computer Science, 2013, , 457-464.	1.0	0
76	Learning Compact Representation for Image with Tensor Manifold Perspective. Lecture Notes in Computer Science, 2013, , 664-671.	1.0	0
77	Enhancing Membrane Protein Subcellular Localization Prediction by Parallel Fusion of Multi-View Features. IEEE Transactions on Nanobioscience, 2012, 11, 375-385.	2.2	24
78	Weighted linear embedding: utilizing local and nonlocal information sufficiently. Neural Computing and Applications, 2012, 21, 1845-1853.	3.2	1
79	Dynamic transition embedding for image feature extraction and recognition. Neural Computing and Applications, 2012, 21, 1905-1915.	3.2	4
80	Supervised and Unsupervised Parallel Subspace Learning for Large-Scale Image Recognition. IEEE Transactions on Circuits and Systems for Video Technology, 2012, 22, 1497-1511.	5.6	20
81	Sparse Tensor Discriminant Color Space for Face Verification. IEEE Transactions on Neural Networks and Learning Systems, 2012, 23, 876-888.	7.2	107
82	Sparse Approximation to the Eigensubspace for Discrimination. IEEE Transactions on Neural Networks and Learning Systems, 2012, 23, 1948-1960.	7.2	59
83	Beyond sparsity: The role of L1-optimizer in pattern classification. Pattern Recognition, 2012, 45, 1104-1118.	5.1	216
84	Fusion of Local Features for Face Recognition by Multiple Least Square Solutions. Lecture Notes in Computer Science, 2012, , 9-16.	1.0	1
85	A Two-Phase Test Sample Sparse Representation Method for Use With Face Recognition. IEEE Transactions on Circuits and Systems for Video Technology, 2011, 21, 1255-1262.	5.6	444
86	A Linear Subspace Learning Approach via Low Rank Decomposition. , 2011, , .		1
87	Sparse two-dimensional local discriminant projections for feature extraction. Neurocomputing, 2011, 74, 629-637.	3.5	47
88	Tensor Discriminant Color Space for Face Recognition. IEEE Transactions on Image Processing, 2011, 20, 2490-2501.	6.0	66
89	From classifiers to discriminators: A nearest neighbor rule induced discriminant analysis. Pattern Recognition, 2011, 44, 1387-1402.	5.1	57
90	Kernel feature extraction methods observed from the viewpoint of generating-kernels. Frontiers of Electrical and Electronic Engineering in China: Selected Publications From Chinese Universities, 2011, 6, 43-55.	0.6	3

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91	Optimal locality preserving least square support vector machine. Frontiers of Electrical and Electronic Engineering in China: Selected Publications From Chinese Universities, 2011, 6, 201-207.	0.6	0
92	Recursive projection twin support vector machine via within-class variance minimization. Pattern Recognition, 2011, 44, 2643-2655.	5.1	169
93	EVALUATE DISSIMILARITY OF SAMPLES IN FEATURE SPACE FOR IMPROVING KPCA. International Journal of Information Technology and Decision Making, 2011, 10, 479-495.	2.3	36
94	Color space normalization: Enhancing the discriminating power of color spaces for face recognition. Pattern Recognition, 2010, 43, 1454-1466.	5.1	95
95	LPP solution schemes for use with face recognition. Pattern Recognition, 2010, 43, 4165-4176.	5.1	169
96	Quotient vs. difference: Comparison between the two discriminant criteria. Neurocomputing, 2010, 73, 1808-1817.	3.5	13
97	Sparse Local Discriminant Projections for Feature Extraction. , 2010, , .		15
98	Metaface learning for sparse representation based face recognition. , 2010, , .		256
99	Global Sparse Representation Projections for Feature Extraction and Classification. , 2009, , .		11
100	Local Graph Embedding Discriminant Analysis for Face Recognition with Single Training Sample Per Person. , 2009, , .		3
101	Non-linear Techniques for Dimension Reduction. , 2009, , 1003-1007.		5
102	Image Pattern Recognition. , 2009, , 726-729.		1
103	Median Fisher Discriminator: a robust feature extraction method with applications to biometrics. Frontiers of Computer Science, 2008, 2, 295-305.	0.6	12
104	An approach for directly extracting features from matrix data and its application in face recognition. Neurocomputing, 2008, 71, 1857-1865.	3.5	98
105	Color Image Discriminant Models and Algorithms for Face Recognition. IEEE Transactions on Neural Networks, 2008, 19, 2088-2098.	4.8	97
106	Minimal local reconstruction error measure based discriminant feature extraction and classification. , 2008, , .		4
107	A THEORETICAL FRAMEWORK FOR MATRIX-BASED FEATURE EXTRACTION ALGORITHMS WITH ITS APPLICATION TO IMAGE RECOGNITION. International Journal of Image and Graphics, 2008, 08, 1-23.	1.2	10
108	New Concept for Discriminator Design: From Classifier to Discriminator. , 2008, , .		0

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109	Globally Maximizing, Locally Minimizing: Unsupervised Discriminant Projection with Applications to Face and Palm Biometrics. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2007, 29, 650-664.	9.7	469
110	Constructing PCA Baseline Algorithms to Reevaluate ICA-Based Face-Recognition Performance. IEEE Transactions on Systems, Man, and Cybernetics, 2007, 37, 1015-1021.	5.5	51
111	Comments on "On Image Matrix Based Feature Extraction Algorithms. IEEE Transactions on Systems, Man, and Cybernetics, 2007, 37, 1373-1374.	5.5	11
112	Horizontal and Vertical 2DPCA-Based Discriminant Analysis for Face Verification on a Large-Scale Database. IEEE Transactions on Information Forensics and Security, 2007, 2, 781-792.	4.5	57
113	Horizontal and Vertical 2DPCA Based Discriminant Analysis for Face Verification Using the FRGC Version 2 Database. Lecture Notes in Computer Science, 2007, , 838-847.	1.0	4
114	DLDA/QR: A Robust Direct LDA Algorithm for Face Recognition and Its Theoretical Foundation. , 2007, , 379-387.		0
115	BDPCA plus LDA: a novel fast feature extraction technique for face recognition. IEEE Transactions on Systems, Man, and Cybernetics, 2006, 36, 946-953.	5.5	107
116	A reformative kernel Fisher discriminant algorithm and its application to face recognition. Neurocomputing, 2006, 69, 1806-1810.	3.5	23
117	Median LDA: A Robust Feature Extraction Method for Face Recognition. , 2006, , .		17
118	Fuzzy Kernel Fisher Discriminant Algorithm with Application to Face Recognition. , 2006, , .		9
119	Two-dimensional discriminant transform for face recognition. Pattern Recognition, 2005, 38, 1125-1129.	5.1	288
120	Regularization of LDA for Face Recognition: A Post-processing Approach. Lecture Notes in Computer Science, 2005, , 377-391.	1.0	6
121	KPCA plus LDA: a complete kernel Fisher discriminant framework for feature extraction and recognition. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2005, 27, 230-244.	9.7	721
122	A new kernel Fisher discriminant algorithm with application to face recognition. Neurocomputing, 2004, 56, 415-421.	3.5	37
123	A new LDA-KL combined method for feature extraction and its generalisation. Pattern Analysis and Applications, 2004, 7, 40.	3.1	4
124	Two-dimensional pca: a new approach to appearance-based face representation and recognition. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2004, 26, 131-137.	9.7	2,896
125	Combined Fisherfaces framework. Image and Vision Computing, 2003, 21, 1037-1044.	2.7	61
126	Why can LDA be performed in PCA transformed space?. Pattern Recognition, 2003, 36, 563-566.	5.1	511

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127	Feature fusion: parallel strategy vs. serial strategy. Pattern Recognition, 2003, 36, 1369-1381.	5.1	380
128	UNCORRELATED PROJECTION DISCRIMINANT ANALYSIS AND ITS APPLICATION TO FACE IMAGE FEATURE EXTRACTION. International Journal of Pattern Recognition and Artificial Intelligence, 2003, 17, 1325-1347.	0.7	34
129	Generalized Kâ€L transform based combined feature extraction. Pattern Recognition, 2002, 35, 295-297.	5.1	76
130	From image vector to matrix: a straightforward image projection techniqueâ€”IMPCA vs. PCA. Pattern Recognition, 2002, 35, 1997-1999.	5.1	180
131	<title>Optimal FLD algorithm for facial feature extraction</title>. , 2001, , .		29
132	Discriminating Color Faces For Recognition. , 0, , .		0