

# Dao-Qing Dai

## List of Publications by Year in Descending Order

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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.

97  
papers

1,934  
citations

26  
h-index

40  
g-index

105  
ext. papers

2,267  
ext. citations

5  
avg, IF

5.2  
L-index

#	Paper	IF	Citations
97	Heterogeneous Domain Adaptation via Covariance Structured Feature Translators. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , 51, 2166-2177	10.2	4
96	Joint Transformation Learning via the L-Norm Metric for Robust Graph Matching. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , 51, 521-533	10.2	4
95	Learning Kernel for Conditional Moment-Matching Discrepancy-Based Image Classification. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , 51, 2006-2018	10.2	4
94	Hyperspectral image classification via discriminative convolutional neural network with an improved triplet loss. <i>Pattern Recognition</i> , <b>2021</b> , 112, 107744	7.7	7
93	WMLRR: A Weighted Multi-View Low Rank Representation to Identify Cancer Subtypes From Multiple Types of Omics Data. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , <b>2021</b> , 18, 2891-2897	3	0
92	Subtype-WESLR: identifying cancer subtype with weighted ensemble sparse latent representation of multi-view data. <i>Briefings in Bioinformatics</i> , <b>2021</b> ,	13.4	2
91	Hyperspectral Image Classification via Discriminant Gabor Ensemble Filter. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , PP,	10.2	7
90	LRSK: a low-rank self-representation K-means method for clustering single-cell RNA-sequencing data. <i>Molecular Omics</i> , <b>2020</b> , 16, 465-473	4.4	2
89	Unsupervised Domain Adaptation via Discriminative Manifold Propagation. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2020</b> , PP,	13.3	7
88	Dual Adversarial Autoencoders for Clustering. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2020</b> , 31, 1417-1424	10.3	16
87	A Circle Pattern Algorithm via Combinatorial Ricci Flows. <i>Trends in Mathematics</i> , <b>2019</b> , 117-138	0.3	
86	Sparse approximation to discriminant projection learning and application to image classification. <i>Pattern Recognition</i> , <b>2019</b> , 96, 106963	7.7	4
85	Discriminative Residual Analysis for Image Set Classification with Posture and Age Variations. <i>IEEE Transactions on Image Processing</i> , <b>2019</b> ,	8.7	6
84	A Peak Price Tracking-Based Learning System for Portfolio Selection. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2018</b> , 29, 2823-2832	10.3	4
83	Kernel Embedding Multiorientation Local Pattern for Image Representation. <i>IEEE Transactions on Cybernetics</i> , <b>2018</b> , 48, 1124-1135	10.2	10
82	Radial Basis Functions With Adaptive Input and Composite Trend Representation for Portfolio Selection. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2018</b> , 29, 6214-6226	10.3	10
81	Discriminative multi-scale sparse coding for single-sample face recognition with occlusion. <i>Pattern Recognition</i> , <b>2017</b> , 66, 302-312	7.7	36

80	Discriminative multi-layer illumination-robust feature extraction for face recognition. <i>Pattern Recognition</i> , <b>2017</b> , 67, 201-212	7.7	25
79	Approximation of conformal welding for finitely connected regions. <i>Complex Variables and Elliptic Equations</i> , <b>2017</b> , 62, 1117-1134	0.5	
78	Fusing landmark-based features at kernel level for face recognition. <i>Pattern Recognition</i> , <b>2017</b> , 63, 406-415	7.7	14
77	Regularized coplanar discriminant analysis for dimensionality reduction. <i>Pattern Recognition</i> , <b>2017</b> , 62, 87-98	7.7	29
76	Comparative analysis of housekeeping and tissue-specific driver nodes in human protein interaction networks. <i>BMC Bioinformatics</i> , <b>2016</b> , 17, 358	3.6	10
75	A two-layer integration framework for protein complex detection. <i>BMC Bioinformatics</i> , <b>2016</b> , 17, 100	3.6	15
74	Regularized logistic regression with network-based pairwise interaction for biomarker identification in breast cancer. <i>BMC Bioinformatics</i> , <b>2016</b> , 17, 108	3.6	17
73	Noisy 1-bit compressive sensing: models and algorithms. <i>Applied and Computational Harmonic Analysis</i> , <b>2016</b> , 40, 1-32	3.1	17
72	Enhanced Local Gradient Order Features and Discriminant Analysis for Face Recognition. <i>IEEE Transactions on Cybernetics</i> , <b>2016</b> , 46, 2656-2669	10.2	45
71	Protein complex detection based on partially shared multi-view clustering. <i>BMC Bioinformatics</i> , <b>2016</b> , 17, 371	3.6	6
70	Discrete solutions of Dirichlet problems by circle patterns and finite volumes. <i>Applicable Analysis</i> , <b>2016</b> , 95, 902-918	0.8	
69	Discriminative and Compact Coding for Robust Face Recognition. <i>IEEE Transactions on Cybernetics</i> , <b>2015</b> , 45, 1900-12	10.2	18
68	Detecting Protein Complexes from Signed Protein-Protein Interaction Networks. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , <b>2015</b> , 12, 1333-44	3	26
67	Multiscale logarithm difference edgemaps for face recognition against varying lighting conditions. <i>IEEE Transactions on Image Processing</i> , <b>2015</b> , 24, 1735-47	8.7	46
66	Sample Weighting: An Inherent Approach for Outlier Suppressing Discriminant Analysis. <i>IEEE Transactions on Knowledge and Data Engineering</i> , <b>2015</b> , 27, 3070-3083	4.2	10
65	Determining minimum set of driver nodes in protein-protein interaction networks. <i>BMC Bioinformatics</i> , <b>2015</b> , 16, 146	3.6	42
64	Identifying binary protein-protein interactions from affinity purification mass spectrometry data. <i>BMC Genomics</i> , <b>2015</b> , 16, 745	4.5	9
63	Transfer learning of structured representation for face recognition. <i>IEEE Transactions on Image Processing</i> , <b>2014</b> , 23, 5440-54	8.7	26

62	Multilayer surface albedo for face recognition with reference images in bad lighting conditions. <i>IEEE Transactions on Image Processing</i> , <b>2014</b> , 23, 4709-23	8.7	12
61	Detecting overlapping protein complexes based on a generative model with functional and topological properties. <i>BMC Bioinformatics</i> , <b>2014</b> , 15, 186	3.6	33
60	Detecting temporal protein complexes from dynamic protein-protein interaction networks. <i>BMC Bioinformatics</i> , <b>2014</b> , 15, 335	3.6	44
59	Band-Reweighted Gabor Kernel Embedding for Face Image Representation and Recognition. <i>IEEE Transactions on Image Processing</i> , <b>2014</b> , 23, 725-40	8.7	35
58	Identifying spurious interactions and predicting missing interactions in the protein-protein interaction networks via a generative network model. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , <b>2013</b> , 10, 219-25	3	15
57	Structured sparse error coding for face recognition with occlusion. <i>IEEE Transactions on Image Processing</i> , <b>2013</b> , 22, 1889-900	8.7	91
56	Protein complex detection via weighted ensemble clustering based on Bayesian nonnegative matrix factorization. <i>PLoS ONE</i> , <b>2013</b> , 8, e62158	3.7	24
55	Cancer subtype discovery and biomarker identification via a new robust network clustering algorithm. <i>PLoS ONE</i> , <b>2013</b> , 8, e66256	3.7	19
54	Robust classification using $\ell_1$ -norm based regression model. <i>Pattern Recognition</i> , <b>2012</b> , 45, 2708-2718	7.7	67
53	Biomarker identification and cancer classification based on microarray data using Laplace naive Bayes model with mean shrinkage. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , <b>2012</b> , 9, 1649-62	3	33
52	Protein complexes discovery based on protein-protein interaction data via a regularized sparse generative network model. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , <b>2012</b> , 9, 857-70	3	19
51	A New On-Board Image Codec Based on Binary Tree With Adaptive Scanning Order in Scan-Based Mode. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2012</b> , 50, 3737-3750	8.1	17
50	Coupled kernel embedding for low resolution face image recognition. <i>IEEE Transactions on Image Processing</i> , <b>2012</b> , 21, 3770-83	8.7	66
49	Exploring overlapping functional units with various structure in protein interaction networks. <i>PLoS ONE</i> , <b>2012</b> , 7, e43092	3.7	18
48	PRL-Dock: protein-ligand docking based on hydrogen bond matching and probabilistic relaxation labeling. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2012</b> , 80, 2137-53	4.2	14
47	A framework for incorporating functional interrelationships into protein function prediction algorithms. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , <b>2012</b> , 9, 740-53	3	36
46	Estimation of reflectance from camera responses by the regularized local linear model. <i>Optics Letters</i> , <b>2011</b> , 36, 3933-5	3	10
45	Framelet algorithms for de-blurring images corrupted by impulse plus Gaussian noise. <i>IEEE Transactions on Image Processing</i> , <b>2011</b> , 20, 1822-37	8.7	150

44	Finding Correlated Biclusters from Gene Expression Data. <i>IEEE Transactions on Knowledge and Data Engineering</i> , <b>2011</b> , 23, 568-584	4.2	52
43	The $\mathbb{C}^k$ -convergence of circle packings of bounded degree to the Riemann mapping. <i>Journal of Mathematical Analysis and Applications</i> , <b>2011</b> , 376, 1-10	1.1	2
42	Low-Resolution Face Recognition via Color Information and Regularized Coupled Mappings <b>2010</b> ,		1
41	Piecewise Regularized Canonical Correlation Discrimination for Low-Resolution Face Recognition <b>2010</b> ,		2
40	Multiframe Super-Resolution Reconstruction Using Sparse Directional Regularization. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , <b>2010</b> , 20, 945-956	6.4	32
39	Incremental learning of bidirectional principal components for face recognition. <i>Pattern Recognition</i> , <b>2010</b> , 43, 318-330	7.7	40
38	The theoretic framework of local weighted approximation for microarray missing value estimation. <i>Pattern Recognition</i> , <b>2010</b> , 43, 2993-3002	7.7	23
37	Bilinear Lanczos components for fast dimensionality reduction and feature extraction. <i>Pattern Recognition</i> , <b>2010</b> , 43, 3742-3752	7.7	9
36	$\mathbb{C}^k$ -Convergence of Circle Patterns to Minimal Surfaces. <i>Nagoya Mathematical Journal</i> , <b>2009</b> , 194, 149-167	0.6	3
35	Gene Selection and Visualization Based on Sparse Maximal Margin Features <b>2009</b> ,		2
34	Sparse discriminant analysis for breast cancer biomarker identification and classification. <i>Progress in Natural Science: Materials International</i> , <b>2009</b> , 19, 1635-1641	3.6	31
33	Face recognition using dual-tree complex wavelet features. <i>IEEE Transactions on Image Processing</i> , <b>2009</b> , 18, 2593-9	8.7	46
32	Sparse Representation by Adding Noisy Duplicates for Enhanced Face Recognition: An Elastic Net Regularization Approach <b>2009</b> ,		4
31	Two-dimensional maximum margin feature extraction for face recognition. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , <b>2009</b> , 39, 1002-12		32
30	Feature Extraction and Uncorrelated Discriminant Analysis for High-Dimensional Data. <i>IEEE Transactions on Knowledge and Data Engineering</i> , <b>2008</b> , 20, 601-614	4.2	40
29	. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2008</b> , 55, 3500-3512	3.9	4
28	2D-ONPP: Two Dimensional Extension of Orthogonal Neighborhood Preserving Projections for Face Recognition <b>2008</b> ,		3
27	Quasiregular mapping by branched circle packing. <i>Complex Variables and Elliptic Equations</i> , <b>2008</b> , 53, 667-673	0.5	

26	Discriminant Dual-Tree Complex Wavelet Features for Face Recognition <b>2008</b> ,		1
25	Nonlocal boundary problems for a third-order one-dimensional nonlinear pseudoparabolic equation. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , <b>2007</b> , 66, 179-191	1.3	9
24	Variational principles for branched circle patterns. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , <b>2007</b> , 67, 498-511	1.3	1
23	Remarks on a semilinear heat equation with integral boundary conditions. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , <b>2007</b> , 67, 468-475	1.3	8
22	Improved discriminate analysis for high-dimensional data and its application to face recognition. <i>Pattern Recognition</i> , <b>2007</b> , 40, 1570-1578	7.7	42
21	The . <i>Journal of Mathematical Analysis and Applications</i> , <b>2007</b> , 332, 1351-1364	1.1	7
20	A moment problem for one-dimensional nonlinear pseudoparabolic equation. <i>Journal of Mathematical Analysis and Applications</i> , <b>2007</b> , 328, 1057-1067	1.1	7
19	The C 2-convergence of circle packings with bounded degree to the Riemann mapping. <i>Complex Variables and Elliptic Equations</i> , <b>2007</b> , 52, 1007-1016	0.5	
18	Face recognition by regularized discriminant analysis. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , <b>2007</b> , 37, 1080-5		61
17	On a mixed problem with integral conditions for one-dimensional parabolic equation. <i>Applicable Analysis</i> , <b>2006</b> , 85, 1113-1121	0.8	3
16	Wavelet based discriminant analysis for face recognition. <i>Applied Mathematics and Computation</i> , <b>2006</b> , 175, 307-318	2.7	14
15	On a nonlocal problem for nonlinear pseudoparabolic equations. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , <b>2006</b> , 64, 499-512	1.3	2
14	Kernel machine-based one-parameter regularized fisher discriminant method for face recognition. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , <b>2005</b> , 35, 659-69		82
13	Inverse Fisher discriminate criteria for small sample size problem and its application to face recognition. <i>Pattern Recognition</i> , <b>2005</b> , 38, 2192-2194	7.7	39
12	Spectrum of the Riemann-Hilbert-Poincaré problem for analytic functions. <i>Complex Variables and Elliptic Equations</i> , <b>2005</b> , 50, 497-505		
11	Galerkin analysis for Schrödinger equation by wavelets. <i>Journal of Mathematical Physics</i> , <b>2004</b> , 45, 855-869.	2	4
10	On continuous solutions of a generalized Cauchy-Riemann system with more than one singularity. <i>Journal of Differential Equations</i> , <b>2004</b> , 196, 67-90	2.1	22
9	Riemann mapping theorems for Beltrami equations by circle packings. <i>Pacific Journal of Mathematics</i> , <b>2004</b> , 217, 139-147	0.5	6

8	Regularized discriminant analysis and its application to face recognition. <i>Pattern Recognition</i> , <b>2003</b> , 36, 845-847	7.7	91
7	Fourier Method for Riemann-Hilbert-Poincaré Problem of Analytic Function. <i>Complex Variables and Elliptic Equations</i> , <b>2002</b> , 47, 645-652		1
6	On non-normal riemann boundary value problem for analytic functions. <i>Complex Variables and Elliptic Equations</i> , <b>2000</b> , 42, 1-9		
5	Wavelets and orthogonal polynomials based on harmonic oscillator eigenstates. <i>Journal of Mathematical Physics</i> , <b>2000</b> , 41, 3086-3103	1.2	5
4	Polynomial preserving algorithm for digital image interpolation. <i>Signal Processing</i> , <b>1998</b> , 67, 109-121	4.4	10
3	The Riemann-Hilbert boundary value problem for semilinear pseudoparabolic equations. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , <b>1994</b> , 23, 785-796	1.3	5
2	On a boundary value problem for semilinear elliptic system of second order in the plane. <i>Complex Variables and Elliptic Equations</i> , <b>1993</b> , 22, 145-151		
1	Piecewise continuous solutions of nonlinear pseudoparabolic equations in two space dimensions*. <i>Proceedings of the Royal Society of Edinburgh Section A: Mathematics</i> , <b>1992</b> , 121, 203-217	1	7