

Zhihua Cai

List of Publications by Year in descending order

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111
papers

5,023
citations

94269

37
h-index

95083

68
g-index

112
all docs

112
docs citations

112
times ranked

3894
citing authors

#	ARTICLE	IF	CITATIONS
1	Differential Evolution With Ranking-Based Mutation Operators. IEEE Transactions on Cybernetics, 2013, 43, 2066-2081.	6.2	427
2	DE/BBO: a hybrid differential evolution with biogeography-based optimization for global numerical optimization. Soft Computing, 2010, 15, 645-665.	2.1	327
3	Parameter extraction of solar cell models using repaired adaptive differential evolution. Solar Energy, 2013, 94, 209-220.	2.9	312
4	A Novel Bayes Model: Hidden Naive Bayes. IEEE Transactions on Knowledge and Data Engineering, 2009, 21, 1361-1371.	4.0	256
5	SuperPCA: A Superpixelwise PCA Approach for Unsupervised Feature Extraction of Hyperspectral Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 4581-4593.	2.7	233
6	Enhanced Differential Evolution With Adaptive Strategies for Numerical Optimization. IEEE Transactions on Systems, Man, and Cybernetics, 2011, 41, 397-413.	5.5	198
7	A real-coded biogeography-based optimization with mutation. Applied Mathematics and Computation, 2010, 216, 2749-2758.	1.4	154
8	BS-Nets: An End-to-End Framework for Band Selection of Hyperspectral Image. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 1969-1984.	2.7	153
9	Adaptive strategy selection in differential evolution for numerical optimization: An empirical study. Information Sciences, 2011, 181, 5364-5386.	4.0	141
10	A clustering-based differential evolution for global optimization. Applied Soft Computing Journal, 2011, 11, 1363-1379.	4.1	123
11	A Multioperator Search Strategy Based on Cheap Surrogate Models for Evolutionary Optimization. IEEE Transactions on Evolutionary Computation, 2015, 19, 746-758.	7.5	115
12	Improving Tree augmented Naive Bayes for class probability estimation. Knowledge-Based Systems, 2012, 26, 239-245.	4.0	109
13	Enhancing the performance of differential evolution using orthogonal design method. Applied Mathematics and Computation, 2008, 206, 56-69.	1.4	102
14	An unsupervised parameter learning model for RVFL neural network. Neural Networks, 2019, 112, 85-97.	3.3	88
15	Naive Bayes text classifiers: a locally weighted learning approach. Journal of Experimental and Theoretical Artificial Intelligence, 2013, 25, 273-286.	1.8	85
16	Engineering optimization by means of an improved constrained differential evolution. Computer Methods in Applied Mechanics and Engineering, 2014, 268, 884-904.	3.4	83
17	Ensemble Transfer Learning Algorithm. IEEE Access, 2018, 6, 2389-2396.	2.6	81
18	Self-adaptive attribute weighting for Naive Bayes classification. Expert Systems With Applications, 2015, 42, 1487-1502.	4.4	77

#	ARTICLE	IF	CITATIONS
19	An efficient multiobjective differential evolution algorithm for engineering design. <i>Structural and Multidisciplinary Optimization</i> , 2009, 38, 137-157.	1.7	76
20	Finding Multiple Roots of Nonlinear Equation Systems via a Repulsion-Based Adaptive Differential Evolution. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2020, 50, 1499-1513.	5.9	74
21	Weighted average of one-dependence estimators. <i>Journal of Experimental and Theoretical Artificial Intelligence</i> , 2012, 24, 219-230.	1.8	71
22	Multi-View Multi-Label Learning With Sparse Feature Selection for Image Annotation. <i>IEEE Transactions on Multimedia</i> , 2020, 22, 2844-2857.	5.2	69
23	Graph Convolutional Subspace Clustering: A Robust Subspace Clustering Framework for Hyperspectral Image. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021, 59, 4191-4202.	2.7	61
24	Memetic Extreme Learning Machine. <i>Pattern Recognition</i> , 2016, 58, 135-148.	5.1	60
25	A Weighted Biobjective Transformation Technique for Locating Multiple Optimal Solutions of Nonlinear Equation Systems. <i>IEEE Transactions on Evolutionary Computation</i> , 2017, 21, 697-713.	7.5	55
26	Parameter identification of an SOFC model with an efficient, adaptive differential evolution algorithm. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 5083-5096.	3.8	53
27	DISCRIMINATIVELY WEIGHTED NAIVE BAYES AND ITS APPLICATION IN TEXT CLASSIFICATION. <i>International Journal on Artificial Intelligence Tools</i> , 2012, 21, 1250007.	0.7	52
28	Efficient and flexible password authenticated key agreement for Voice over Internet Protocol Session Initiation Protocol using smart card. <i>International Journal of Communication Systems</i> , 2014, 27, 2691-2702.	1.6	50
29	Parameter extraction of different fuel cell models with transferred adaptive differential evolution. <i>Energy</i> , 2015, 86, 139-151.	4.5	49
30	Not so greedy: Randomly Selected Naive Bayes. <i>Expert Systems With Applications</i> , 2012, 39, 11022-11028.	4.4	47
31	Accelerating parameter identification of proton exchange membrane fuel cell model with ranking-based differential evolution. <i>Energy</i> , 2013, 59, 356-364.	4.5	47
32	Instance cloned extreme learning machine. <i>Pattern Recognition</i> , 2017, 68, 52-65.	5.1	45
33	Unsupervised Hyperspectral Image Band Selection Based on Deep Subspace Clustering. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2019, 16, 1889-1893.	1.4	44
34	Hierarchical ensemble of Extreme Learning Machine. <i>Pattern Recognition Letters</i> , 2018, 116, 101-106.	2.6	43
35	Band Selection of Hyperspectral Images Using Multiobjective Optimization-Based Sparse Self-Representation. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2019, 16, 452-456.	1.4	43
36	Deep Multigrained Cascade Forest for Hyperspectral Image Classification. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019, 57, 8169-8183.	2.7	39

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37	Graph Regularized Residual Subspace Clustering Network for hyperspectral image clustering. Information Sciences, 2021, 578, 85-101.	4.0	38
38	Efficient Graph Convolutional Self-Representation for Band Selection of Hyperspectral Image. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 4869-4880.	2.3	37
39	A naive Bayes probability estimation model based on self-adaptive differential evolution. Journal of Intelligent Information Systems, 2014, 42, 671-694.	2.8	36
40	Bayesian Citation-KNN with distance weighting. International Journal of Machine Learning and Cybernetics, 2014, 5, 193-199.	2.3	35
41	Learning decision tree for ranking. Knowledge and Information Systems, 2009, 20, 123-135.	2.1	34
42	Adaptive strategy selection in differential evolution. , 2010, , .		34
43	Multi-instance Multi-graph Dual Embedding Learning. , 2013, , .		29
44	Self-adaptive probability estimation for Naive Bayes classification. , 2013, , .		29
45	Multi-graph-view Learning for Graph Classification. , 2014, , .		29
46	Spectral-Spatial and Superpixelwise PCA for Unsupervised Feature Extraction of Hyperspectral Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-10.	2.7	29
47	Artificial immune system for attribute weighted Naive Bayes classification. , 2013, , .		28
48	A multiobjective optimization-based sparse extreme learning machine algorithm. Neurocomputing, 2018, 317, 88-100.	3.5	27
49	Extreme Learning Machine-Based Ensemble Transfer Learning for Hyperspectral Image Classification. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 3892-3902.	2.3	26
50	Cooperative Spectral-Spatial Attention Dense Network for Hyperspectral Image Classification. IEEE Geoscience and Remote Sensing Letters, 2021, 18, 866-870.	1.4	26
51	Multi-Graph Learning with Positive and Unlabeled Bags. , 2014, , .		24
52	Spectral-Spatial Hyperspectral Image Classification with Superpixel Pattern and Extreme Learning Machine. Remote Sensing, 2019, 11, 1983.	1.8	24
53	A Sorting Based Algorithm for Finding a Non-dominated Set in Multi-objective Optimization. , 2007, , .		23
54	Bagging based ensemble transfer learning. Journal of Ambient Intelligence and Humanized Computing, 2016, 7, 29-36.	3.3	20

#	ARTICLE	IF	CITATIONS
55	Spectral-Spatial Clustering of Hyperspectral Image Based on Laplacian Regularized Deep Subspace Clustering. , 2019, , .		19
56	Multi-graph-view subgraph mining for graph classification. Knowledge and Information Systems, 2016, 48, 29-54.	2.1	18
57	Spectral-Spatial Feature Extraction of Hyperspectral Images Based on Propagation Filter. Sensors, 2018, 18, 1978.	2.1	18
58	Continuous Particle Swarm Optimization-Based Deep Learning Architecture Search for Hyperspectral Image Classification. Remote Sensing, 2021, 13, 1082.	1.8	18
59	Meta-Learner Hybrid Models to Classify Hyperspectral Images. Remote Sensing, 2022, 14, 1038.	1.8	18
60	Supervised Gaussian Process Latent Variable Model for Hyperspectral Image Classification. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 1760-1764.	1.4	17
61	A new adaptive Kalman filter by combining evolutionary algorithm and fuzzy inference system. , 2014, , .		16
62	Robust and efficient password authenticated key agreement with user anonymity for session initiation protocol-based communications. IET Communications, 2014, 8, 83-91.	1.5	16
63	Laplacian Regularized Spatial-Aware Collaborative Graph for Discriminant Analysis of Hyperspectral Imagery. Remote Sensing, 2019, 11, 29.	1.8	16
64	USING INSTANCE CLONING TO IMPROVE NAIVE BAYES FOR RANKING. International Journal of Pattern Recognition and Artificial Intelligence, 2008, 22, 1121-1140.	0.7	15
65	Hypergraph-Structured Autoencoder for Unsupervised and Semisupervised Classification of Hyperspectral Image. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	15
66	ESPSA: A prediction-based algorithm for streaming time series segmentation. Expert Systems With Applications, 2014, 41, 6098-6105.	4.4	14
67	Cascade conditional generative adversarial nets for spatial-spectral hyperspectral sample generation. Science China Information Sciences, 2020, 63, 1.	2.7	14
68	Latent representation learning based autoencoder for unsupervised feature selection in hyperspectral imagery. Multimedia Tools and Applications, 2022, 81, 12061-12075.	2.6	13
69	DECISION TREE WITH BETTER CLASS PROBABILITY ESTIMATION. International Journal of Pattern Recognition and Artificial Intelligence, 2009, 23, 745-763.	0.7	12
70	Sampled Bayesian Network Classifiers for Class-Imbalance and Cost-Sensitive Learning. , 2013, , .		12
71	SuperBF: Superpixel-Based Bilateral Filtering Algorithm and Its Application in Feature Extraction of Hyperspectral Images. IEEE Access, 2019, 7, 147796-147807.	2.6	12
72	ODE: A Fast and Robust Differential Evolution Based on Orthogonal Design. Lecture Notes in Computer Science, 2006, , 709-718.	1.0	11

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73	Multi-View Fusion with Extreme Learning Machine for Clustering. ACM Transactions on Intelligent Systems and Technology, 2019, 10, 1-23.	2.9	11
74	Nonlocal Band Attention Network for Hyperspectral Image Band Selection. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 3462-3474.	2.3	11
75	A NOVEL DISTANCE FUNCTION: FREQUENCY DIFFERENCE METRIC. International Journal of Pattern Recognition and Artificial Intelligence, 2014, 28, 1451002.	0.7	10
76	Sparse Feature Learning of Hyperspectral Imagery via Multiobjective-Based Extreme Learning Machine. Sensors, 2020, 20, 1262.	2.1	10
77	Unsupervised Dimensionality Reduction for Hyperspectral Imagery via Laplacian Regularized Collaborative Representation Projection. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	10
78	Superpixel Contracted Neighborhood Contrastive Subspace Clustering Network for Hyperspectral Images. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	2.7	10
79	Dual instance and attribute weighting for Naive Bayes classification. , 2014, , .		9
80	A Global-Local Attentive Relation Detection Model for Knowledge-Based Question Answering. IEEE Transactions on Artificial Intelligence, 2021, 2, 200-212.	3.4	9
81	Hyperspectral Image Classification Based on Bilateral Filter With Multispatial Domain. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	7
82	Multi-resolution remote sensing image registration using differential evolution with adaptive strategy selection. Optical Engineering, 2012, 51, 101707.	0.5	6
83	Attribute weighting: How and when does it work for Bayesian Network Classification. , 2014, , .		6
84	Discriminative Spectral-Spatial Attention-Aware Residual Network For Hyperspectral Image Classification. , 2019, , .		6
85	Graph Convolutional Extreme Learning Machine. , 2020, , .		6
86	A GENERALIZED HYBRID GENERATION SCHEME OF DIFFERENTIAL EVOLUTION FOR GLOBAL NUMERICAL OPTIMIZATION. International Journal of Computational Intelligence and Applications, 2011, 10, 35-65.	0.6	5
87	An improved JADE algorithm for global optimization. , 2014, , .		5
88	A Novel Deep Learning Approach: Stacked Evolutionary Auto-encoder. , 2018, , .		5
89	Gaussian Process Graph-Based Discriminant Analysis for Hyperspectral Images Classification. Remote Sensing, 2019, 11, 2288.	1.8	5
90	Small Target Detection Based on Squared Cross Entropy and Dense Feature Pyramid Networks. IEEE Access, 2021, 9, 55179-55190.	2.6	5

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91	Particle Swarm Optimization Based Deep Learning Architecture Search for Hyperspectral Image Classification. , 2020, , .		5
92	Deep Mutual Information Subspace Clustering Network for Hyperspectral Images. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	5
93	A New Mutation Operator Based on the T Probability Distribution in Evolutionary Programming. , 2006, , .		4
94	An empirical study on differential evolution for optimal power allocation in WSNs. , 2012, , .		4
95	Locally Weighted Learning: How and When Does it Work in Bayesian Networks?. International Journal of Computational Intelligence Systems, 2015, 8, 63-74.	1.6	4
96	Hyperspectral image classification using set-to-set distance. , 2016, , .		4
97	Visual Saliency-Based Extended Morphological Profiles for Unsupervised Feature Learning of Hyperspectral Images. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 1963-1967.	1.4	4
98	Tensor-Based Unsupervised Multi-View Feature Selection for Image Recognition. , 2021, , .		3
99	Classification of hyperspectral images using a propagation filter and convolutional neural network. Remote Sensing Letters, 2022, 13, 429-440.	0.6	3
100	Classification guided differential evolution. , 2016, , .		2
101	Attribute Weighting via Differential Evolution for Attribute Weighted Clonal Selection Algorithm. Journal of Computers, 2012, 7, .	0.4	2
102	A Tri-training Based Transfer Learning Algorithm. , 2012, , .		1
103	Differential Evolution based on population reduction with minimum distance. , 2013, , .		1
104	A weighted-resampling based transfer learning algorithm. , 2017, , .		1
105	Application of Uranium Mineral Band Feature Sub-set Selection Based on Genetic Algorithm. , 2013, , .		0
106	Optical Flow Based Face Hallucination Via Weightedly-Constrained Representation. , 2018, , .		0
107	Functional Locality Preserving Projection for Dimensionality Reduction. , 2018, , .		0
108	A Brain Network Inspired Algorithm: Pre-trained Extreme Learning Machine. Lecture Notes in Computer Science, 2017, , 14-23.	1.0	0

#	ARTICLE	IF	CITATIONS
109	Polar Transformation Based Rotation Convolution Network for Oriented Object Detection. , 2021, , .		0
110	Partial Connected Neural Architecture Search Based on Continuous Particle Swarm for Hyperspectral Image Classification. , 2021, , .		0
111	UFN-GAN: An unsupervised generative adversarial network for remote sensing image fusion. , 2021, , .		0