Ronghua Shang

List of Publications by Year
in descending order

109 papers	3,357 citations	109321 35 h-index	161849 54 g-index
110 all docs	110 docs citations	110 times ranked	2673 citing authors

#	Article	IF	Citations
1	Community detection based on modularity and an improved genetic algorithm. Physica A: Statistical Mechanics and Its Applications, 2013, 392, 1215-1231.	2.6	173
2	A Novel Immune Clonal Algorithm for MO Problems. IEEE Transactions on Evolutionary Computation, 2012, 16, 35-50.	10.0	135
3	A Deep Learning Method for Change Detection in Synthetic Aperture Radar Images. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 5751-5763.	6.3	126
4	Dynamic-context cooperative quantum-behaved particle swarm optimization based on multilevel thresholding applied to medical image segmentation. Information Sciences, 2015, 294, 408-422.	6.9	111
5	Non-Negative Spectral Learning and Sparse Regression-Based Dual-Graph Regularized Feature Selection. IEEE Transactions on Cybernetics, 2018, 48, 793-806.	9.5	103
6	RADet: Refine Feature Pyramid Network and Multi-Layer Attention Network for Arbitrary-Oriented Object Detection of Remote Sensing Images. Remote Sensing, 2020, 12, 389.	4.0	90
7	SAR Targets Classification Based on Deep Memory Convolution Neural Networks and Transfer Parameters. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 2834-2846.	4.9	89
8	Quantum-behaved discrete multi-objective particle swarm optimization for complex network clustering. Pattern Recognition, 2017, 63, 1-14.	8.1	86
9	Densely Based Multi-Scale and Multi-Modal Fully Convolutional Networks for High-Resolution Remote-Sensing Image Semantic Segmentation. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 2612-2626.	4.9	80
10	Dense connection and depthwise separable convolution based CNN for polarimetric SAR image classification. Knowledge-Based Systems, 2020, 194, 105542.	7.1	77
11	A modified objective function method with feasible-guiding strategy to solve constrained multi-objective optimization problems. Applied Soft Computing Journal, 2014, 14, 363-380.	7.2	76
12	Subspace learning-based graph regularized feature selection. Knowledge-Based Systems, 2016, 112, 152-165.	7.1	74
13	Global discriminative-based nonnegative spectral clustering. Pattern Recognition, 2016, 55, 172-182.	8.1	73
14	Self-representation based dual-graph regularized feature selection clustering. Neurocomputing, 2016, 171, 1242-1253.	5.9	66
15	A multi-population cooperative coevolutionary algorithm for multi-objective capacitated arc routing problem. Information Sciences, 2014, 277, 609-642.	6.9	65
16	Multi-scale Adaptive Feature Fusion Network for Semantic Segmentation in Remote Sensing Images. Remote Sensing, 2020, 12, 872.	4.0	63
17	A Spatial Fuzzy Clustering Algorithm With Kernel Metric Based on Immune Clone for SAR Image Segmentation. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 1640-1652.	4.9	62
18	Feature selection based dual-graph sparse non-negative matrix factorization for local discriminative clustering. Neurocomputing, 2018, 290, 87-99.	5.9	61

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19	Quantum immune clonal coevolutionary algorithm for dynamic multiobjective optimization. Soft Computing, 2014, 18, 743-756.	3.6	60
20	Dual-graph regularized non-negative matrix factorization with sparse and orthogonal constraints. Engineering Applications of Artificial Intelligence, 2018, 69, 24-35.	8.1	60
21	Improved Memetic Algorithm Based on Route Distance Grouping for Multiobjective Large Scale Capacitated Arc Routing Problems. IEEE Transactions on Cybernetics, 2016, 46, 1000-1013.	9.5	55
22	SAR Image Despeckling Using Edge Detection and Feature Clustering in Bandelet Domain. IEEE Geoscience and Remote Sensing Letters, 2010, 7, 131-135.	3.1	54
23	A multiobjective evolutionary algorithm to find community structures based on affinity propagation. Physica A: Statistical Mechanics and Its Applications, 2016, 453, 203-227.	2.6	54
24	Local discriminative based sparse subspace learning for feature selection. Pattern Recognition, 2019, 92, 219-230.	8.1	52
25	Attention Multibranch Convolutional Neural Network for Hyperspectral Image Classification Based on Adaptive Region Search. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 5054-5070.	6.3	50
26	Convolutional Neural Network Based on Bandwise-Independent Convolution and Hard Thresholding for Hyperspectral Band Selection. IEEE Transactions on Cybernetics, 2021, 51, 4414-4428.	9.5	48
27	Sparse and low-redundant subspace learning-based dual-graph regularized robust feature selection. Knowledge-Based Systems, 2020, 187, 104830.	7.1	47
28	Cultural quantum-behaved particle swarm optimization for environmental/economic dispatch. Applied Soft Computing Journal, 2016, 48, 597-611.	7.2	46
29	Cross-Layer Attention Network for Small Object Detection in Remote Sensing Imagery. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 2148-2161.	4.9	45
30	Change detection in SAR images by artificial immune multi-objective clustering. Engineering Applications of Artificial Intelligence, 2014, 31, 53-67.	8.1	44
31	Overlapping community detection through an improved multi-objective quantum-behaved particle swarm optimization. Journal of Heuristics, 2015, 21, 549-575.	1.4	44
32	A new quantum-behaved particle swarm optimization based on cultural evolution mechanism for multiobjective problems. Knowledge-Based Systems, 2016, 101, 90-99.	7.1	43
33	Semi-Supervised Graph Regularized Deep NMF With Bi-Orthogonal Constraints for Data Representation. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 3245-3258.	11.3	43
34	Efficient Convolutional Neural Architecture Search for Remote Sensing Image Scene Classification. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 6092-6105.	6.3	41
35	A community integration strategy based on an improved modularity density increment for large-scale networks. Physica A: Statistical Mechanics and Its Applications, 2017, 469, 471-485.	2.6	37
36	Large-scale community detection based on node membership grade and sub-communities integration. Physica A: Statistical Mechanics and Its Applications, 2015, 428, 279-294.	2.6	35

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37	Dual space latent representation learning for unsupervised feature selection. Pattern Recognition, 2021, 114, 107873.	8.1	34
38	Community mining using three closely joint techniques based on community mutual membership and refinement strategy. Applied Soft Computing Journal, 2017, 61, 1060-1073.	7.2	32
39	Deep Reinforcement Learning for Semisupervised Hyperspectral Band Selection. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-19.	6.3	32
40	An Improved Decomposition-Based Memetic Algorithm for Multi-Objective Capacitated Arc Routing Problem. Applied Soft Computing Journal, 2014, 19, 343-361.	7.2	31
41	A self-paced learning algorithm for change detection in synthetic aperture radar images. Signal Processing, 2018, 142, 375-387.	3.7	29
42	Multi-objective artificial immune algorithm for fuzzy clustering based on multiple kernels. Swarm and Evolutionary Computation, 2019, 50, 100485.	8.1	29
43	A Fast Algorithm for SAR Image Segmentation Based on Key Pixels. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 5657-5673.	4.9	25
44	SAR Image Segmentation Using Region Smoothing and Label Correction. Remote Sensing, 2020, 12, 803.	4.0	25
45	A Multi-Level Attention Model for Remote Sensing Image Captions. Remote Sensing, 2020, 12, 939.	4.0	25
46	Semi-Supervised PolSAR Image Classification Based on Self-Training and Superpixels. Remote Sensing, 2019, 11, 1933.	4.0	23
47	Immune clonal algorithm based on directed evolution for multi-objective capacitated arc routing problem. Applied Soft Computing Journal, 2016, 49, 748-758.	7.2	22
48	Subspace learning for unsupervised feature selection via adaptive structure learning and rank approximation. Neurocomputing, 2020, 413, 72-84.	5.9	22
49	Local community detection based on higher-order structure and edge information. Physica A: Statistical Mechanics and Its Applications, 2022, 587, 126513.	2.6	22
50	Complex-Valued Convolutional Autoencoder and Spatial Pixel-Squares Refinement for Polarimetric SAR Image Classification. Remote Sensing, 2019, 11, 522.	4.0	21
51	Superpixel Boundary-Based Edge Description Algorithm for SAR Image Segmentation. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 1972-1985.	4.9	21
52	A thumbnail-based hierarchical fuzzy clustering algorithm for SAR image segmentation. Signal Processing, 2020, 171, 107518.	3.7	20
53	Dual-graph convolutional network based on band attention and sparse constraint for hyperspectral band selection. Knowledge-Based Systems, 2021, 231, 107428.	7.1	20
54	Quantum-behaved particle swarm optimization with collaborative attractors for nonlinear numerical problems. Communications in Nonlinear Science and Numerical Simulation, 2017, 44, 167-183.	3.3	19

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55	Anchor-Free Single Stage Detector in Remote Sensing Images Based on Multiscale Dense Path Aggregation Feature Pyramid Network. IEEE Access, 2020, 8, 63121-63133.	4.2	19
56	Spatial feature-based convolutional neural network for PolSAR image classification. Applied Soft Computing Journal, 2022, 123, 108922.	7.2	17
57	Unsupervised feature selection based on kernel fisher discriminant analysis and regression learning. Machine Learning, 2019, 108, 659-686.	5.4	16
58	Feature selection based on non-negative spectral feature learning and adaptive rank constraint. Knowledge-Based Systems, 2022, 236, 107749.	7.1	16
59	Unsupervised feature selection based on self-representation sparse regression and local similarity preserving. International Journal of Machine Learning and Cybernetics, 2019, 10, 757-770.	3.6	15
60	MANet: Multi-Scale Aware-Relation Network for Semantic Segmentation in Aerial Scenes. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	6.3	14
61	A study of large-scale data clustering based on fuzzy clustering. Soft Computing, 2016, 20, 3231-3242.	3.6	13
62	Weighted compactness function based label propagation algorithm for community detection. Physica A: Statistical Mechanics and Its Applications, 2018, 492, 767-780.	2.6	13
63	Application of natural computation inspired method in community detection. Physica A: Statistical Mechanics and Its Applications, 2019, 515, 130-150.	2.6	13
64	Multi-objective clustering technique based on k-nodes update policy and similarity matrix for mining communities in social networks. Physica A: Statistical Mechanics and Its Applications, 2017, 486, 1-24.	2.6	13
65	Sparse and low-dimensional representation with maximum entropy adaptive graph for feature selection. Neurocomputing, 2022, 485, 57-73.	5.9	13
66	Hyper-Parameter Optimization Using MARS Surrogate for Machine-Learning Algorithms. IEEE Transactions on Emerging Topics in Computational Intelligence, 2020, 4, 287-297.	4.9	12
67	Unsupervised EA-Based Fuzzy Clustering for Image Segmentation. IEEE Access, 2020, 8, 8627-8647.	4.2	12
68	A Lightweight Keypoint-Based Oriented Object Detection of Remote Sensing Images. Remote Sensing, 2021, 13, 2459.	4.0	12
69	Dynamic Immunization Node Model for Complex Networks Based on Community Structure and Threshold. IEEE Transactions on Cybernetics, 2022, 52, 1539-1552.	9.5	11
70	Double feature selection algorithm based on low-rank sparse non-negative matrix factorization. International Journal of Machine Learning and Cybernetics, 2020, 11, 1891-1908.	3.6	11
71	Evolutionary neural architecture search based on evaluation correction and functional units. Knowledge-Based Systems, 2022, 251, 109206.	7.1	11
72	Immune clonal coevolutionary algorithm for dynamic multiobjective optimization. Natural Computing, 2014, 13, 421-445.	3.0	10

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73	Learning simultaneous adaptive clustering and classification via MOEA. Pattern Recognition, 2016, 60, 37-50.	8.1	10
74	Quantum-Inspired Immune Clonal Algorithm for solving large-scale capacitated arc routing problems. Memetic Computing, 2018, 10, 81-102.	4.0	10
75	Adversarial Reconstruction-Classification Networks for PolSAR Image Classification. Remote Sensing, 2019, 11, 415.	4.0	10
76	Complex network graph embedding method based on shortest path and MOEA/D for community detection. Applied Soft Computing Journal, 2020, 97, 106764.	7.2	10
77	Graph Convolutional Neural Networks with Geometric and Discrimination information. Engineering Applications of Artificial Intelligence, 2021, 104, 104364.	8.1	10
78	Circularly Searching Core Nodes Based Label Propagation Algorithm for Community Detection. International Journal of Pattern Recognition and Artificial Intelligence, 2016, 30, 1659024.	1.2	9
79	Local Collaborative Representation With Adaptive Dictionary Selection for Hyperspectral Image Classification. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 1482-1486.	3.1	9
80	Co-evolution-based immune clonal algorithm for clustering. Soft Computing, 2016, 20, 1503-1519.	3.6	9
81	Immune clonal selection algorithm for capacitated arc routing problem. Soft Computing, 2016, 20, 2177-2204.	3.6	9
82	Semantic Segmentation for SAR Image Based on Texture Complexity Analysis and Key Superpixels. Remote Sensing, 2020, 12, 2141.	4.0	9
83	Hyperspectral Image Classification Based on Multiscale Cross-Branch Response and Second-Order Channel Attention. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	6.3	9
84	Nonnegative Matrix Factorization with Rank Regularization and Hard Constraint. Neural Computation, 2017, 29, 2553-2579.	2.2	8
85	Sar Image Change Detection Based on Mean Shift Pre-Classification and Fuzzy C-Means. , 2019, , .		8
86	An intuitionistic fuzzy possibilistic C-means clustering based on genetic algorithm. , 2016, , .		7
87	SAR Image Segmentation Based on Constrained Smoothing and Hierarchical Label Correction. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	6.3	7
88	Multiobjective Guided Divide-and-Conquer Network for Hyperspectral Pansharpening. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-17.	6.3	7
89	Kernel clustering using a hybrid memetic algorithm. Natural Computing, 2013, 12, 605-615.	3.0	6
90	Local Community Detection Algorithm Based on Alternating Strategy of Strong Fusion and Weak Fusion. IEEE Transactions on Cybernetics, 2023, 53, 818-831.	9.5	6

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91	Synthetic aperture radar image change detection based on improved bilateral filtering and fuzzy C mean. Journal of Applied Remote Sensing, 2016, 10, 046017.	1.3	5
92	A dynamic local cluster ratio-based band selection algorithm for hyperspectral images. Soft Computing, 2019, 23, 8281-8289.	3.6	5
93	Immune Clonal MO Algorithm for 0/1 Knapsack Problems. Lecture Notes in Computer Science, 2006, , 870-878.	1.3	5
94	Multi-objective artificial immune algorithm for fuzzy clustering based on multiple kernels. , 2017, , .		4
95	Memetic algorithm based on extension step and statistical filtering for large-scale capacitated arc routing problems. Natural Computing, 2018, 17, 375-391.	3.0	4
96	Stacked auto-encoder for classification of polarimetric SAR images based on scattering energy. International Journal of Remote Sensing, 2019, 40, 5094-5120.	2.9	4
97	Discrete polynary coding immune clonal selection€based joint subcarrier and power allocation in uplink cognitive OFDM network. International Journal of Communication Systems, 2016, 29, 64-83.	2.5	3
98	Medical image segmentation based on immune clonal optimization. , 2009, , .		2
99	Quantum immune clone for solving constrained multi-objective optimization. , 2015, , .		2
100	On the use of immune clone optimization for unconstrained multi-objective resource allocation in the cognitive OFDMA networks. , 2016, , .		2
101	Graph-regularized feature selection based on spectral learning and subspace learning. , 2020, , 351-385.		2
102	Hybrid Immune Algorithm with intelligent recombination. , 2009, , .		1
103	A Memetic Algorithm Based on Decomposition and Extended Search for Multi-Objective Capacitated Arc Routing Problem. Lecture Notes in Computer Science, 2017, , 272-283.	1.3	1
104	A novel location-based DNA matching algorithm for hyperspectral image classification. Memetic Computing, 2019, 11, 175-191.	4.0	1
105	Evolutionary computation-based multiobjective capacitated arc routing optimizations. , 2020, , 233-300.		1
106	Detection in SAR Images Based on Histogram and Improved Elitist Genetic Fuzzy Clustering. Lecture Notes in Computer Science, 2017, , 541-553.	1.3	1
107	SAR Image Change Detection Based on Conditional Spatial and Kernel Fuzzy C-Means. , 2018, , .		0
108	Multiobjective evolutionary algorithm (MOEA)-based sparse clustering. , 2020, , 127-195.		0

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109	MOEA-based community detection. , 2020, , 197-232.		0