

Jiao Licheng

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1003948/publications.pdf>

Version: 2024-02-01

552
papers

13,557
citations

30070

54
h-index

43889

91
g-index

552
all docs

552
docs citations

552
times ranked

8865
citing authors

#	ARTICLE	IF	CITATIONS
1	A Survey of Deep Learning-Based Object Detection. IEEE Access, 2019, 7, 128837-128868.	4.2	779
2	Change Detection in Synthetic Aperture Radar Images Based on Deep Neural Networks. IEEE Transactions on Neural Networks and Learning Systems, 2016, 27, 125-138.	11.3	481
3	Residual Spectral-Spatial Attention Network for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 449-462.	6.3	267
4	Remote Sensing Image Registration With Modified SIFT and Enhanced Feature Matching. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 3-7.	3.1	252
5	A Novel Point-Matching Algorithm Based on Fast Sample Consensus for Image Registration. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 43-47.	3.1	248
6	A Novel Coarse-to-Fine Scheme for Automatic Image Registration Based on SIFT and Mutual Information. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 4328-4338.	6.3	244
7	Position-Patch Based Face Hallucination Using Convex Optimization. IEEE Signal Processing Letters, 2011, 18, 367-370.	3.6	210
8	Adaptive Backstepping Fuzzy Control for Nonlinearly Parameterized Systems With Periodic Disturbances. IEEE Transactions on Fuzzy Systems, 2010, 18, 674-685.	9.8	200
9	Spectral Clustering Ensemble Applied to SAR Image Segmentation. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 2126-2136.	6.3	199
10	Deep Fully Convolutional Network-Based Spatial Distribution Prediction for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 5585-5599.	6.3	172
11	Hyperspectral Unmixing via Deep Convolutional Neural Networks. IEEE Geoscience and Remote Sensing Letters, 2018, 15, 1755-1759.	3.1	132
12	A Survey on the New Generation of Deep Learning in Image Processing. IEEE Access, 2019, 7, 172231-172263.	4.2	129
13	Constrained Subproblems in a Decomposition-Based Multiobjective Evolutionary Algorithm. IEEE Transactions on Evolutionary Computation, 2016, 20, 475-480.	10.0	126
14	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
15	Quantum-Inspired Immune Clonal Algorithm for Global Optimization. IEEE Transactions on Systems, Man, and Cybernetics, 2008, 38, 1234-1253.	5.0	119
16	Classification of Hyperspectral Images Based on Multiclass Spatial-Spectral Generative Adversarial Networks. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 5329-5343.	6.3	114
17	Superpixel-Based Multiple Local CNN for Panchromatic and Multispectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 4141-4156.	6.3	110
18	Personalized Recommendation Based on Evolutionary Multi-Objective Optimization [Research Frontier]. IEEE Computational Intelligence Magazine, 2015, 10, 52-62.	3.2	107

#	ARTICLE	IF	CITATIONS
19	Spatial-Spectral-Graph-Regularized Low-Rank Tensor Decomposition for Multispectral and Hyperspectral Image Fusion. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 1030-1040.	4.9	105
20	Classification of Polarimetric SAR Images Using Multilayer Autoencoders and Superpixels. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 3072-3081.	4.9	101
21	A Novel Two-Step Registration Method for Remote Sensing Images Based on Deep and Local Features. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 4834-4843.	6.3	100
22	Spatial Sequential Recurrent Neural Network for Hyperspectral Image Classification. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 4141-4155.	4.9	99
23	Fusion Methods for CNN-Based Automatic Modulation Classification. IEEE Access, 2019, 7, 66496-66504.	4.2	99
24	Attention Consistent Network for Remote Sensing Scene Classification. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 2030-2045.	4.9	98
25	Mutual-Information-Based Semi-Supervised Hyperspectral Band Selection With High Discrimination, High Information, and Low Redundancy. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 2956-2969.	6.3	95
26	Hyperspectral Image Classification Based on 3-D Octave Convolution With Spatial-Spectral Attention Network. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 2430-2447.	6.3	94
27	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
28	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
29	Discrete particle swarm optimization for identifying community structures in signed social networks. Neural Networks, 2014, 58, 4-13.	5.9	85
30	Sig-NMS-Based Faster R-CNN Combining Transfer Learning for Small Target Detection in VHR Optical Remote Sensing Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 8534-8545.	6.3	83
31	New Hierarchical Saliency Filtering for Fast Ship Detection in High-Resolution SAR Images. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 351-362.	6.3	82
32	ViT-YOLO:Transformer-Based YOLO for Object Detection. , 2021, , .		82
33	Polarimetric Convolutional Network for PolSAR Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 3040-3054.	6.3	79
34	Unsupervised Deep Feature Learning for Remote Sensing Image Retrieval. Remote Sensing, 2018, 10, 1243.	4.0	78
35	Dense connection and depthwise separable convolution based CNN for polarimetric SAR image classification. Knowledge-Based Systems, 2020, 194, 105542.	7.1	77
36	Transferred Deep Learning-Based Change Detection in Remote Sensing Images. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 6960-6973.	6.3	74

#	ARTICLE	IF	CITATIONS
37	Generative Adversarial Networks Based on Collaborative Learning and Attention Mechanism for Hyperspectral Image Classification. <i>Remote Sensing</i> , 2020, 12, 1149.	4.0	73
38	Deep Hash Learning for Remote Sensing Image Retrieval. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021, 59, 3420-3443.	6.3	71
39	Compressive Hyperspectral Imaging via Sparse Tensor and Nonlinear Compressed Sensing. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2015, 53, 5943-5957.	6.3	70
40	CNN-Based Multilayer Spatial-Spectral Feature Fusion and Sample Augmentation With Local and Nonlocal Constraints for Hyperspectral Image Classification. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2019, 12, 1299-1313.	4.9	70
41	Recursive Autoencoders-Based Unsupervised Feature Learning for Hyperspectral Image Classification. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2017, 14, 1928-1932.	3.1	68
42	Modified Co-Training With Spectral and Spatial Views for Semisupervised Hyperspectral Image Classification. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2014, 7, 2044-2055.	4.9	67
43	Fuzzy Double C-Means Clustering Based on Sparse Self-Representation. <i>IEEE Transactions on Fuzzy Systems</i> , 2018, 26, 612-626.	9.8	67
44	POLSAR Image Classification via Wishart-AE Model or Wishart-CAE Model. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2017, 10, 3604-3615.	4.9	67
45	Fuzzy c-means clustering with non local spatial information for noisy image segmentation. <i>Frontiers of Computer Science</i> , 2011, 5, 45-56.	0.6	66
46	Multi-scale Adaptive Feature Fusion Network for Semantic Segmentation in Remote Sensing Images. <i>Remote Sensing</i> , 2020, 12, 872.	4.0	63
47	Enhancing robustness of coupled networks under targeted recoveries. <i>Scientific Reports</i> , 2015, 5, 8439.	3.3	62
48	Supervised Band Selection Using Local Spatial Information for Hyperspectral Image. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2016, , 1-5.	3.1	62
49	A Spatial Fuzzy Clustering Algorithm With Kernel Metric Based on Immune Clone for SAR Image Segmentation. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2016, 9, 1640-1652.	4.9	62
50	Deep Multiple Instance Learning-Based Spatial-Spectral Classification for PAN and MS Imagery. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2018, 56, 461-473.	6.3	62
51	Adaptive Multiscale Deep Fusion Residual Network for Remote Sensing Image Classification. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019, 57, 8506-8521.	6.3	61
52	Quantum immune clonal coevolutionary algorithm for dynamic multiobjective optimization. <i>Soft Computing</i> , 2014, 18, 743-756.	3.6	60
53	Multilayer CFAR Detection of Ship Targets in Very High Resolution SAR Images. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2015, 12, 811-815.	3.1	60
54	Multifeature Hyperspectral Image Classification With Local and Nonlocal Spatial Information via Markov Random Field in Semantic Space. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2018, 56, 1409-1424.	6.3	56

#	ARTICLE	IF	CITATIONS
55	Quantum Optimization and Quantum Learning: A Survey. IEEE Access, 2020, 8, 23568-23593.	4.2	56
56	An improved cooperative quantum-behaved particle swarm optimization. Soft Computing, 2012, 16, 1061-1069.	3.6	55
57	Fuzzy Superpixels for Polarimetric SAR Images Classification. IEEE Transactions on Fuzzy Systems, 2018, 26, 2846-2860.	9.8	55
58	Deep Multiscale Spectral-Spatial Feature Fusion for Hyperspectral Images Classification. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 2911-2924.	4.9	55
59	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
60	Aerial Image Road Extraction Based on an Improved Generative Adversarial Network. Remote Sensing, 2019, 11, 930.	4.0	54
61	CNN-Based Polarimetric Decomposition Feature Selection for PolSAR Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 8796-8812.	6.3	52
62	SAR Image Content Retrieval Based on Fuzzy Similarity and Relevance Feedback. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 1824-1842.	4.9	51
63	Building Extraction of Aerial Images by a Global and Multi-Scale Encoder-Decoder Network. Remote Sensing, 2020, 12, 2350.	4.0	51
64	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
65	MOEA/D with uniform decomposition measurement for many-objective problems. Soft Computing, 2014, 18, 2541-2564.	3.6	47
66	Big Data Processing Architecture for Radio Signals Empowered by Deep Learning: Concept, Experiment, Applications and Challenges. IEEE Access, 2018, 6, 55907-55922.	4.2	47
67	Hyperspectral Unmixing via Low-Rank Representation with Space Consistency Constraint and Spectral Library Pruning. Remote Sensing, 2018, 10, 339.	4.0	47
68	MSARN: A Deep Neural Network Based on an Adaptive Recalibration Mechanism for Multiscale and Arbitrary-Oriented SAR Ship Detection. IEEE Access, 2019, 7, 159262-159283.	4.2	47
69	GRS-Det: An Anchor-Free Rotation Ship Detector Based on Gaussian-Mask in Remote Sensing Images. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 3518-3531.	6.3	47
70	NNIA-RS: A multi-objective optimization based recommender system. Physica A: Statistical Mechanics and Its Applications, 2015, 424, 383-397.	2.6	46
71	Fast Multifeature Joint Sparse Representation for Hyperspectral Image Classification. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 1397-1401.	3.1	45
72	Difference representation learning using stacked restricted Boltzmann machines for change detection in SAR images. Soft Computing, 2016, 20, 4645-4657.	3.6	45

#	ARTICLE	IF	CITATIONS
73	Adaptive Super-Resolution for Remote Sensing Images Based on Sparse Representation With Global Joint Dictionary Model. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 2312-2327.	6.3	45
74	Deep Learning for Large-Scale Real-World ACARS and ADS-B Radio Signal Classification. IEEE Access, 2019, 7, 89256-89264.	4.2	45
75	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
76	Overlapping community detection through an improved multi-objective quantum-behaved particle swarm optimization. Journal of Heuristics, 2015, 21, 549-575.	1.4	44
77	Multiple Kernel Learning Based on Discriminative Kernel Clustering for Hyperspectral Band Selection. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 6516-6530.	6.3	44
78	Multimodal Remote Sensing Image Registration Based on Image Transfer and Local Features. IEEE Geoscience and Remote Sensing Letters, 2019, 16, 1210-1214.	3.1	44
79	Hyperspectral Image Classification Based on Deep Attention Graph Convolutional Network. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	6.3	44
80	Hyperspectral Imagery Classification Based on Contrastive Learning. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	6.3	44
81	Change Detection in Remote Sensing Images Based on Image Mapping and a Deep Capsule Network. Remote Sensing, 2019, 11, 626.	4.0	43
82	Fully Convolutional Network-Based Ensemble Method for Road Extraction From Aerial Images. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 1777-1781.	3.1	43
83	Self-Supervised Representation Learning for Remote Sensing Image Change Detection Based on Temporal Prediction. Remote Sensing, 2020, 12, 1868.	4.0	43
84	Lossy-to-Lossless Hyperspectral Image Compression Based on Multiplierless Reversible Integer TDLT/KLT. IEEE Geoscience and Remote Sensing Letters, 2009, 6, 587-591.	3.1	42
85	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
86	An Unsupervised Remote Sensing Change Detection Method Based on Multiscale Graph Convolutional Network and Metric Learning. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	6.3	41
87	A novel cooperative coevolutionary dynamic multi-objective optimization algorithm using a new predictive model. Soft Computing, 2014, 18, 1913-1929.	3.6	40
88	SAR Image Registration Based on Multifeature Detection and Arborescence Network Matching. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 706-710.	3.1	40
89	A Sparse Spectral Clustering Framework via Multiobjective Evolutionary Algorithm. IEEE Transactions on Evolutionary Computation, 2016, 20, 418-433.	10.0	40
90	Multilayer Projective Dictionary Pair Learning and Sparse Autoencoder for PolSAR Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 6683-6694.	6.3	40

#	ARTICLE	IF	CITATIONS
91	Hyperspectral Band Selection Using Improved Classification Map. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 2147-2151.	3.1	40
92	A Deep Detection Network Based on Interaction of Instance Segmentation and Object Detection for SAR Images. Remote Sensing, 2021, 13, 2582.	4.0	40
93	NAS-Guided Lightweight Multiscale Attention Fusion Network for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 8754-8767.	6.3	40
94	SAR Image Classification via Hierarchical Sparse Representation and Multisize Patch Features. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 33-37.	3.1	39
95	Integration of improved predictive model and adaptive differential evolution based dynamic multi-objective evolutionary optimization algorithm. Applied Intelligence, 2015, 43, 192-207.	5.3	38
96	VR-SGD: A Simple Stochastic Variance Reduction Method for Machine Learning. IEEE Transactions on Knowledge and Data Engineering, 2020, 32, 188-202.	5.7	38
97	Multitask Semantic Boundary Awareness Network for Remote Sensing Image Segmentation. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	6.3	38
98	Deep learning to classify difference image for image change detection. , 2014, , .		37
99	MOEA/D with biased weight adjustment inspired by user preference and its application on multi-objective reservoir flood control problem. Soft Computing, 2016, 20, 4999-5023.	3.6	37
100	ADAPTIVE RANKS CLONE AND <i>k</i> -NEAREST NEIGHBOR LIST-BASED IMMUNE MULTI-OBJECTIVE OPTIMIZATION. Computational Intelligence, 2010, 26, 359-385.	3.2	36
101	Fusion Similarity-Based Reranking for SAR Image Retrieval. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 242-246.	3.1	36
102	Local Descriptor Learning for Change Detection in Synthetic Aperture Radar Images via Convolutional Neural Networks. IEEE Access, 2019, 7, 15389-15403.	4.2	36
103	DeepReceiver: A Deep Learning-Based Intelligent Receiver for Wireless Communications in the Physical Layer. IEEE Transactions on Cognitive Communications and Networking, 2021, 7, 5-20.	7.9	36
104	Discriminative Spectral-Spatial Margin-Based Semisupervised Dimensionality Reduction of Hyperspectral Data. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 224-228.	3.1	35
105	A Salient Region Detection and Pattern Matching-Based Algorithm for Center Detection of a Partially Covered Tropical Cyclone in a SAR Image. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 280-291.	6.3	35
106	Tensor-Based Low-Rank Graph With Multimanifold Regularization for Dimensionality Reduction of Hyperspectral Images. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 4731-4746.	6.3	35
107	Imbalanced Learning-Based Automatic SAR Images Change Detection by Morphologically Supervised PCA-Net. IEEE Geoscience and Remote Sensing Letters, 2019, 16, 554-558.	3.1	35
108	ADAPTIVE MULTI-OBJECTIVE OPTIMIZATION BASED ON NONDOMINATED SOLUTIONS. Computational Intelligence, 2009, 25, 84-108.	3.2	34

#	ARTICLE	IF	CITATIONS
109	Multicontourlet-Based Adaptive Fusion of Infrared and Visible Remote Sensing Images. IEEE Geoscience and Remote Sensing Letters, 2010, 7, 549-553.	3.1	34
110	Semi-Supervised Deep Fuzzy C-Mean Clustering for Imbalanced Multi-Class Classification. IEEE Access, 2019, 7, 28100-28112.	4.2	34
111	Image change detection based on an improved rough fuzzy c-means clustering algorithm. International Journal of Machine Learning and Cybernetics, 2014, 5, 369-377.	3.6	33
112	Imbalanced Hyperspectral Image Classification Based on Maximum Margin. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 522-526.	3.1	33
113	Multipath Residual Network for Spectral-Spatial Hyperspectral Image Classification. Remote Sensing, 2019, 11, 1896.	4.0	33
114	Multi-Scale Image Block-Level F-CNN for Remote Sensing Images Object Detection. IEEE Access, 2019, 7, 43607-43621.	4.2	33
115	Novel heuristic density-based method for community detection in networks. Physica A: Statistical Mechanics and Its Applications, 2014, 403, 71-84.	2.6	32
116	Semisupervised Feature Extraction With Neighborhood Constraints for Polarimetric SAR Classification. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 3001-3015.	4.9	32
117	Semi-Supervised Hyperspectral Band Selection Based on Dynamic Classifier Selection. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 1289-1298.	4.9	32
118	Deep Reinforcement Learning for Semisupervised Hyperspectral Band Selection. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-19.	6.3	32
119	Spectral Partitioning Residual Network With Spatial Attention Mechanism for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	6.3	32
120	Feature Split-merge Enhancement Network for Remote Sensing Object Detection. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-17.	6.3	32
121	Remote Sensing Image Super-Resolution Reconstruction Based on Nonlocal Pairwise Dictionaries and Double Regularization. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 4784-4792.	4.9	31
122	A Multi-kernel Joint Sparse Graph for SAR Image Segmentation. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 1265-1285.	4.9	31
123	Polarimetric SAR Feature Extraction With Neighborhood Preservation-Based Deep Learning. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 1456-1466.	4.9	31
124	A Novel Deep Fully Convolutional Network for PolSAR Image Classification. Remote Sensing, 2018, 10, 1984.	4.0	31
125	A Novel Multi-Model Decision Fusion Network for Object Detection in Remote Sensing Images. Remote Sensing, 2019, 11, 737.	4.0	31
126	A Three-Component Fisher-Based Feature Weighting Method for Supervised PolSAR Image Classification. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 731-735.	3.1	30

#	ARTICLE	IF	CITATIONS
127	SAR Image Segmentation Based on Hierarchical Visual Semantic and Adaptive Neighborhood Multinomial Latent Model. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 4287-4301.	6.3	30
128	A Similarity-Based Multiobjective Evolutionary Algorithm for Deployment Optimization of Near Space Communication System. IEEE Transactions on Evolutionary Computation, 2017, 21, 878-897.	10.0	30
129	Classification of PolSAR Images Using Multilayer Autoencoders and a Self-Paced Learning Approach. Remote Sensing, 2018, 10, 110.	4.0	30
130	SAR image change detection based on deep denoising and CNN. IET Image Processing, 2019, 13, 1509-1515.	2.5	30
131	Patch-Sorted Deep Feature Learning for High Resolution SAR Image Classification. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 3113-3126.	4.9	29
132	Fully Dense Multiscale Fusion Network for Hyperspectral Image Classification. Remote Sensing, 2019, 11, 2718.	4.0	29
133	A Distribution and Structure Match Generative Adversarial Network for SAR Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 3864-3880.	6.3	29
134	Dual-Channel Capsule Generation Adversarial Network for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	6.3	29
135	Pansharpening Based on Low-Rank and Sparse Decomposition. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 4793-4805.	4.9	28
136	A dynamic multiple populations particle swarm optimization algorithm based on decomposition and prediction. Applied Soft Computing Journal, 2018, 73, 434-459.	7.2	28
137	Decomposition-Feature-Iterative-Clustering-Based Superpixel Segmentation for PolSAR Image Classification. IEEE Geoscience and Remote Sensing Letters, 2018, 15, 1239-1243.	3.1	28
138	Semisupervised Affinity Propagation Based on Normalized Trivariable Mutual Information for Hyperspectral Band Selection. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 2760-2773.	4.9	27
139	Object Detection in High-Resolution Panchromatic Images Using Deep Models and Spatial Template Matching. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 956-970.	6.3	27
140	Immune algorithm with orthogonal design based initialization, cloning, and selection for global optimization. Knowledge and Information Systems, 2010, 25, 523-549.	3.2	26
141	Adaptive Nonlocal Spatial Spectral Kernel for Hyperspectral Imagery Classification. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 4086-4101.	4.9	26
142	Change Detection Based on Multi-Grained Cascade Forest and Multi-Scale Fusion for SAR Images. Remote Sensing, 2019, 11, 142.	4.0	26
143	A Mutual Information-Based Self-Supervised Learning Model for PolSAR Land Cover Classification. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 9224-9237.	6.3	26
144	Local Maximal Homogeneous Region Search for SAR Speckle Reduction With Sketch-Based Geometrical Kernel Function. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 5751-5764.	6.3	25

#	ARTICLE	IF	CITATIONS
145	Geometric Nonnegative Matrix Factorization (GNMF) for Hyperspectral Unmixing. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 2696-2703.	4.9	25
146	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
147	Dimensionality Reduction of Hyperspectral Imagery Using Sparse Graph Learning. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 1165-1181.	4.9	25
148	Densely connected deep random forest for hyperspectral imagery classification. International Journal of Remote Sensing, 2019, 40, 3606-3622.	2.9	25
149	SAR Image Segmentation Using Region Smoothing and Label Correction. Remote Sensing, 2020, 12, 803.	4.0	25
150	A Multi-Level Attention Model for Remote Sensing Image Captions. Remote Sensing, 2020, 12, 939.	4.0	25
151	Spectral-Difference Low-Rank Representation Learning for Hyperspectral Anomaly Detection. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 10364-10377.	6.3	25
152	Unsupervised evolutionary clustering algorithm for mixed type data. , 2010, , .		24
153	Hyperspectral Anomaly Detection Based on Low-Rank Representation With Data-Driven Projection and Dictionary Construction. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 2226-2239.	4.9	24
154	Heterogeneous Transformer Learning Framework for RS Scene Classification. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 2223-2239.	4.9	24
155	Semisupervised Dual-Geometric Subspace Projection for Dimensionality Reduction of Hyperspectral Image Data. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 3587-3593.	6.3	23
156	A Novel Clonal Selection Algorithm for Community Detection in Complex Networks. Computational Intelligence, 2015, 31, 442-464.	3.2	23
157	Band selection and evaluation with spatial information. International Journal of Remote Sensing, 2016, 37, 4501-4520.	2.9	23
158	Link prediction in complex networks based on an information allocation index. Physica A: Statistical Mechanics and Its Applications, 2017, 470, 1-11.	2.6	23
159	Deep Generative Matching Network for Optical and SAR Image Registration. , 2018, , .		23
160	Marginal Stacked Autoencoder With Adaptively-Spatial Regularization for Hyperspectral Image Classification. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 3297-3311.	4.9	23
161	Semi-Supervised PolSAR Image Classification Based on Self-Training and Superpixels. Remote Sensing, 2019, 11, 1933.	4.0	23
162	Hybrid immune algorithm with Lamarckian local search for multi-objective optimization. Memetic Computing, 2010, 2, 47-67.	4.0	22

#	ARTICLE	IF	CITATIONS
163	SAR Images Change Detection Based on Spatial Coding and Nonlocal Similarity Pooling. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 3452-3466.	4.9	22
164	Deep Multiple Feature Fusion for Hyperspectral Image Classification. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 3880-3891.	4.9	22
165	Rotation-Based Deep Forest for Hyperspectral Imagery Classification. IEEE Geoscience and Remote Sensing Letters, 2019, 16, 1105-1109.	3.1	22
166	POL-SAR Image Classification Based on Modified Stacked Autoencoder Network and Data Distribution. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 1678-1695.	6.3	22
167	A Lightweight Spectral-Spatial Convolution Module for Hyperspectral Image Classification. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	22
168	Max-Index Based Local Self-Similarity Descriptor for Robust Multi-Modal Image Registration. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	22
169	Unsupervised change detection in SAR images based on locally fitting model and semi-EM algorithm. International Journal of Remote Sensing, 2014, 35, 621-650.	2.9	21
170	Saliency-guided change detection for SAR imagery using a semi-supervised Laplacian SVM. Remote Sensing Letters, 2016, 7, 1043-1052.	1.4	21
171	CRIM-FCHO: SAR Image Two-Stage Segmentation With Multifeature Ensemble. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 2400-2423.	6.3	21
172	Robust Semisupervised Classification for PolSAR Image With Noisy Labels. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 6440-6455.	6.3	21
173	A Hybrid Method of SAR Speckle Reduction Based on Geometric-Structural Block and Adaptive Neighborhood. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 730-748.	6.3	21
174	A multiscale object detection approach for remote sensing images based on MSE-DenseNet and the dynamic anchor assignment. Remote Sensing Letters, 2019, 10, 959-967.	1.4	21
175	Complex-Valued Convolutional Autoencoder and Spatial Pixel-Squares Refinement for Polarimetric SAR Image Classification. Remote Sensing, 2019, 11, 522.	4.0	21
176	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
177	Self-Distillation Feature Learning Network for Optical and SAR Image Registration. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-18.	6.3	21
178	Semi-supervised low-rank representation graph for pattern recognition. IET Image Processing, 2013, 7, 131-136.	2.5	20
179	Decomposition-Based Multiobjective Evolutionary Algorithm for Community Detection in Dynamic Social Networks. Scientific World Journal, The, 2014, 2014, 1-22.	2.1	20
180	Detecting changes of the Yellow River Estuary via SAR images based on a local fit-search model and kernel-induced graph cuts. International Journal of Remote Sensing, 2014, 35, 4009-4030.	2.9	20

#	ARTICLE	IF	CITATIONS
181	Novel Adaptive Component-Substitution-Based Pan-Sharpener Using Particle Swarm Optimization. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 781-785.	3.1	20
182	Denosing of low dose CT image with context-based BM3D. , 2016, , .		20
183	Joint Sparse Recovery With Semisupervised MUSIC. IEEE Signal Processing Letters, 2017, 24, 629-633.	3.6	20
184	Large-Scale Semantic 3-D Reconstruction: Outcome of the 2019 IEEE GRSS Data Fusion Contestâ€”Part B. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 1158-1170.	4.9	20
185	SigNet: A Novel Deep Learning Framework for Radio Signal Classification. IEEE Transactions on Cognitive Communications and Networking, 2022, 8, 529-541.	7.9	20
186	Compressive feature and kernel sparse codingâ€”based radar target recognition. IET Radar, Sonar and Navigation, 2013, 7, 755-763.	1.8	19
187	Using deep neural networks for synthetic aperture radar image registration. , 2016, , .		19
188	Semisupervised Discriminant Feature Learning for SAR Image Category via Sparse Ensemble. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 3532-3547.	6.3	19
189	Hyperspectral band selection with objective image quality assessment. International Journal of Remote Sensing, 2017, 38, 3656-3668.	2.9	19
190	Divide-and-Conquer Dual-Architecture Convolutional Neural Network for Classification of Hyperspectral Images. Remote Sensing, 2019, 11, 484.	4.0	19
191	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
192	Hyperspectral Image Classification With Mixed Link Networks. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 2494-2507.	4.9	19
193	AR ² Det: An Accurate and Real-Time Rotational One-Stage Ship Detector in Remote Sensing Images. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	6.3	19
194	Meta-Hashing for Remote Sensing Image Retrieval. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-19.	6.3	19
195	Few-Shot Hyperspectral Image Classification Based on Adaptive Subspaces and Feature Transformation. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-17.	6.3	18
196	A clustering algorithm with optimized multiscale spatial texture information: application to SAR image segmentation. International Journal of Remote Sensing, 2013, 34, 1111-1126.	2.9	17
197	Target-Oriented High-Resolution SAR Image Formation via Semantic Information Guided Regularizations. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 1922-1939.	6.3	17
198	Better and Faster: Exponential Loss for Image Patch Matching. , 2019, , .		17

#	ARTICLE	IF	CITATIONS
199	Foreground Refinement Network for Rotated Object Detection in Remote Sensing Images. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	6.3	17
200	Decomposition based multiobjective evolutionary algorithm for collaborative filtering recommender systems. , 2014, , .		16
201	Fuzzy clustering with non-local information for image segmentation. International Journal of Machine Learning and Cybernetics, 2014, 5, 845-859.	3.6	16
202	Semisupervised PolSAR Image Classification Based on Improved Cotraining. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 4971-4986.	4.9	16
203	Medical image denoising based on sparse dictionary learning and cluster ensemble. Soft Computing, 2018, 22, 1467-1473.	3.6	16
204	Unsupervised feature selection based on kernel fisher discriminant analysis and regression learning. Machine Learning, 2019, 108, 659-686.	5.4	16
205	Hyperspectral imagery classification with cascaded support vector machines and multi-scale superpixel segmentation. International Journal of Remote Sensing, 2020, 41, 4530-4550.	2.9	16
206	Laplacian Feature Pyramid Network for Object Detection in VHR Optical Remote Sensing Images. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	6.3	16
207	Ridgelet-Nets With Speckle Reduction Regularization for SAR Image Scene Classification. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 9290-9306.	6.3	16
208	A Spatial-Channel Collaborative Attention Network for Enhancement of Multiresolution Classification. Remote Sensing, 2021, 13, 106.	4.0	16
209	Automatic Graph Learning Convolutional Networks for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	6.3	16
210	Multiobjective nondominated neighbor coevolutionary algorithm with elite population. Soft Computing, 2015, 19, 1329-1349.	3.6	15
211	Anisotropic-Scale-Space-Based Salient-Region Detection for SAR Images. IEEE Geoscience and Remote Sensing Letters, 2016, , 1-5.	3.1	15
212	Fast Classification for Large Polarimetric SAR Data Based on Refined Spatial-Anchor Graph. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 1589-1593.	3.1	15
213	Unsupervised Classification of Polarimetric SAR Image Via Improved Manifold Regularized Low-Rank Representation With Multiple Features. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 580-595.	4.9	15
214	Patch Tensor-Based Sparse and Low-Rank Graph for Hyperspectral Images Dimensionality Reduction. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 2513-2527.	4.9	15
215	Variational Learning of Mixture Wishart Model for PolSAR Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 141-154.	6.3	15
216	A Superpixel-Based Relational Auto-Encoder for Feature Extraction of Hyperspectral Images. Remote Sensing, 2019, 11, 2454.	4.0	15

#	ARTICLE	IF	CITATIONS
217	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
218	PolSAR Feature Extraction Via Tensor Embedding Framework for Land Cover Classification. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 2337-2351.	6.3	15
219	Selective Adversarial Adaptation-Based Cross-Scene Change Detection Framework in Remote Sensing Images. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 2188-2203.	6.3	15
220	MBLT: Learning Motion and Background for Vehicle Tracking in Satellite Videos. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	6.3	15
221	SMD-Net: Siamese Multi-Scale Difference-Enhancement Network for Change Detection in Remote Sensing. Remote Sensing, 2022, 14, 1580.	4.0	15
222	Hyperspectral Image Classification Based on Relaxed Clustering Assumption and Spatial Laplace Regularizer. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 901-905.	3.1	14
223	How Can Despeckling and Structural Features Benefit to Change Detection on Bitemporal SAR Images?. Remote Sensing, 2019, 11, 421.	4.0	14
224	SAR Image Change Detection via Spatial Metric Learning With an Improved Mahalanobis Distance. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 77-81.	3.1	14
225	Superjunction LDMOS With Dual Gate for Low On-Resistance and High Transconductance. IEEE Journal of the Electron Devices Society, 2020, 8, 890-896.	2.1	14
226	Online Active Extreme Learning Machine With Discrepancy Sampling for PolSAR Classification. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 2027-2041.	6.3	14
227	Few-shot electromagnetic signal classification: A data union augmentation method. Chinese Journal of Aeronautics, 2022, 35, 49-57.	5.3	14
228	Remote Sensing Object Tracking With Deep Reinforcement Learning Under Occlusion. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	6.3	14
229	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
230	Multiobjective optimization using an immunodominance and clonal selection inspired algorithm. Science in China Series F: Information Sciences, 2008, 51, 1064-1082.	1.1	13
231	Spectral clustering based unsupervised change detection in SAR images. , 2011, , .		13
232	Improved RM-MEDA with local learning. Soft Computing, 2014, 18, 1383-1397.	3.6	13
233	Polarimetric SAR images classification using deep belief networks with learning features. , 2015, , .		13
234	Scaling cut criterion-based discriminant analysis for supervised dimension reduction. Knowledge and Information Systems, 2015, 43, 633-655.	3.2	13

#	ARTICLE	IF	CITATIONS
235	Refined Pan-Sharpener With NSCT and Hierarchical Sparse Autoencoder. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 5715-5725.	4.9	13
236	A Nonlocal Means for Speckle Reduction of SAR Image With Multiscale-Fusion-Based Steerable Kernel Function. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 1646-1650.	3.1	13
237	A study of large-scale data clustering based on fuzzy clustering. Soft Computing, 2016, 20, 3231-3242.	3.6	13
238	Spectral-Spatial Hyperspectral Image Classification Using Cascaded Markov Random Fields. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 4861-4872.	4.9	13
239	Hyperspectral Imagery Classification Based on Compressed Convolutional Neural Network. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 1583-1587.	3.1	13
240	Scene Attention Mechanism for Remote Sensing Image Caption Generation. , 2020, , .		13
241	Recurrent Attention and Semantic Gate for Remote Sensing Image Captioning. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	6.3	13
242	Dual-Collaborative Fusion Model for Multispectral and Panchromatic Image Fusion. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	6.3	13
243	Sparse Feature Clustering Network for Unsupervised SAR Image Change Detection. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	6.3	13
244	Global Synchronization and State Tuning in Asymmetric Complex Dynamical Networks. IEEE Transactions on Circuits and Systems II: Express Briefs, 2008, 55, 932-936.	3.0	12
245	Soft spectral clustering ensemble applied to image segmentation. Frontiers of Computer Science, 2011, 5, 66-78.	0.6	12
246	A preference multi-objective optimization based on adaptive rank clone and differential evolution. Natural Computing, 2013, 12, 109-132.	3.0	12
247	Change detection in synthetic aperture radar images based on evolutionary multiobjective optimization with ensemble learning. Memetic Computing, 2015, 7, 275-289.	4.0	12
248	An orthogonal predictive model-based dynamic multi-objective optimization algorithm. Soft Computing, 2015, 19, 3083-3107.	3.6	12
249	Learning to Rank with Ensemble Ranking SVM. Neural Processing Letters, 2015, 42, 703-714.	3.2	12
250	High-Level Feature Selection With Dictionary Learning for Unsupervised SAR Imagery Terrain Classification. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 145-160.	4.9	12
251	The Empirical Study of Semi-Supervised Deep Fuzzy C-Mean Clustering for Software Fault Prediction. IEEE Access, 2018, 6, 47047-47061.	4.2	12
252	A Semi-Supervised CNN With Fuzzy Rough C-Mean for Image Classification. IEEE Access, 2019, 7, 49641-49652.	4.2	12

#	ARTICLE	IF	CITATIONS
253	High-Resolution SAR Change Detection Based on ROI and SPP Net. IEEE Access, 2019, 7, 177009-177022.	4.2	12
254	A Novel Deep Feature Fusion Network For Remote Sensing Scene Classification. , 2019, , .		12
255	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
256	Unsupervised EA-Based Fuzzy Clustering for Image Segmentation. IEEE Access, 2020, 8, 8627-8647.	4.2	12
257	A Multiscale Self-Adaptive Attention Network for Remote Sensing Scene Classification. Remote Sensing, 2020, 12, 2209.	4.0	12
258	A Convolutional Neural Network with Parallel Multi-Scale Spatial Pooling to Detect Temporal Changes in SAR Images. Remote Sensing, 2020, 12, 1619.	4.0	12
259	Polarimetric Multipath Convolutional Neural Network for PolSAR Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-18.	6.3	12
260	A Lightweight Keypoint-Based Oriented Object Detection of Remote Sensing Images. Remote Sensing, 2021, 13, 2459.	4.0	12
261	Cost-Sensitive Latent Space Learning for Imbalanced PolSAR Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 4802-4817.	6.3	12
262	Multi-Scale Fused SAR Image Registration Based on Deep Forest. Remote Sensing, 2021, 13, 2227.	4.0	12
263	A Multipopulation Coevolutionary Strategy for Multiobjective Immune Algorithm. Scientific World Journal, The, 2014, 2014, 1-23.	2.1	11
264	An intelligent ant colony optimization for community detection in complex networks. , 2014, , .		11
265	Hierarchical Sparse Learning with Spectral-Spatial Information for Hyperspectral Imagery Denoising. Sensors, 2016, 16, 1718.	3.8	11
266	Quantum-inspired multi-objective optimization evolutionary algorithm based on decomposition. Soft Computing, 2016, 20, 3257-3272.	3.6	11
267	An r-dominance-based preference multi-objective optimization for many-objective optimization. Soft Computing, 2017, 21, 5003-5024.	3.6	11
268	Semi-Supervised Complex-Valued GAN for Polarimetric SAR Image Classification. , 2019, , .		11
269	Multi-Scale Feature Fusion Network for Object Detection in VHR Optical Remote Sensing Images. , 2019, , .		11
270	Multi-Feature Weighted Sparse Graph for SAR Image Analysis. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 881-891.	6.3	11

#	ARTICLE	IF	CITATIONS
271	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
272	Change Detection in SAR Images Using Multiobjective Optimization and Ensemble Strategy. IEEE Geoscience and Remote Sensing Letters, 2021, 18, 1585-1589.	3.1	11
273	Spatial Pooling Graph Convolutional Network for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	6.3	11
274	Support vectors pre-extracting for support vector machine based on K nearest neighbour method. , 2008, , .		10
275	An automatic bridge detection technique for high resolution SAR images. , 2009, , .		10
276	LAMARCKIAN LEARNING IN CLONAL SELECTION ALGORITHM FOR NUMERICAL OPTIMIZATION. International Journal on Artificial Intelligence Tools, 2010, 19, 19-37.	1.0	10
277	An Orthogonal Learning Differential Evolution Algorithm for Remote Sensing Image Registration. Mathematical Problems in Engineering, 2014, 2014, 1-11.	1.1	10
278	A memetic algorithm based on Immune multi-objective optimization for flexible job-shop scheduling problems. , 2014, , .		10
279	Immune clonal coevolutionary algorithm for dynamic multiobjective optimization. Natural Computing, 2014, 13, 421-445.	3.0	10
280	Sketching Model and Higher Order Neighborhood Markov Random Field-Based SAR Image Segmentation. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 1686-1690.	3.1	10
281	Link prediction in complex networks via matrix perturbation and decomposition. Scientific Reports, 2017, 7, 14724.	3.3	10
282	Quantum-Inspired Immune Clonal Algorithm for solving large-scale capacitated arc routing problems. Memetic Computing, 2018, 10, 81-102.	4.0	10
283	Sparse Subspace Clustering-Based Feature Extraction for PolSAR Imagery Classification. Remote Sensing, 2018, 10, 391.	4.0	10
284	PolSAR image classification via multimodal sparse representation-based feature fusion. International Journal of Remote Sensing, 2018, 39, 7861-7880.	2.9	10
285	Discriminative Feature Learning for Real-Time SAR Automatic Target Recognition With the Nonlinear Analysis Cospase Model. IEEE Geoscience and Remote Sensing Letters, 2018, 15, 1045-1049.	3.1	10
286	Fast Semisupervised Classification Using Histogram-Based Density Estimation for Large-Scale Polarimetric SAR Data. IEEE Geoscience and Remote Sensing Letters, 2019, 16, 1844-1848.	3.1	10
287	Adversarial Reconstruction-Classification Networks for PolSAR Image Classification. Remote Sensing, 2019, 11, 415.	4.0	10
288	Background Subtraction Based on GAN and Domain Adaptation for VHR Optical Remote Sensing Videos. IEEE Access, 2020, 8, 119144-119157.	4.2	10

#	ARTICLE	IF	CITATIONS
289	Sketch-Based Region Adaptive Sparse Unmixing Applied to Hyperspectral Image. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 8840-8856.	6.3	10
290	Modified Tensor Distance-Based Multiview Spectral Embedding for PolSAR Land Cover Classification. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 2095-2099.	3.1	10
291	A Novel Adaptive Hybrid Fusion Network for Multiresolution Remote Sensing Images Classification. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-17.	6.3	10
292	Network Pruning for Remote Sensing Images Classification Based on Interpretable CNNs. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	6.3	10
293	Graph Convolutional Neural Networks with Geometric and Discrimination information. Engineering Applications of Artificial Intelligence, 2021, 104, 104364.	8.1	10
294	Class-Level Prototype Guided Multiscale Feature Learning for Remote Sensing Scene Classification With Limited Labels. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	6.3	10
295	Intelligent multi-user detection using an artificial immune system. Science in China Series F: Information Sciences, 2009, 52, 2342-2353.	1.1	9
296	Quadratic interpolation based orthogonal learning particle swarm optimization algorithm. Natural Computing, 2014, 13, 17-37.	3.0	9
297	Hyperspectral imagery classification using local collaborative representation. International Journal of Remote Sensing, 2015, 36, 734-748.	2.9	9
298	Local Collaborative Representation With Adaptive Dictionary Selection for Hyperspectral Image Classification. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 1482-1486.	3.1	9
299	Terrain classification with Polarimetric SAR based on Deep Sparse Filtering Network. , 2016, , .		9
300	Unsupervised High-Level Feature Extraction of SAR Imagery With Structured Sparsity Priors and Incremental Dictionary Learning. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 1467-1471.	3.1	9
301	Co-evolution-based immune clonal algorithm for clustering. Soft Computing, 2016, 20, 1503-1519.	3.6	9
302	Immune clonal selection algorithm for capacitated arc routing problem. Soft Computing, 2016, 20, 2177-2204.	3.6	9
303	Change detection in SAR images based on the salient map guidance and an accelerated genetic algorithm. , 2017, , .		9
304	Weight-Variable Scattering Convolution Networks and Its Application in Electromagnetic Signal Classification. IEEE Access, 2019, 7, 175889-175896.	4.2	9
305	A Novel Semicoupled Projective Dictionary Pair Learning Method for PolSAR Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 2407-2418.	6.3	9
306	Semisupervised Classification of PolSAR Image Incorporating Labelsâ€™ Semantic Priors. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 1737-1741.	3.1	9

#	ARTICLE	IF	CITATIONS
307	Semantic Segmentation for SAR Image Based on Texture Complexity Analysis and Key Superpixels. Remote Sensing, 2020, 12, 2141.	4.0	9
308	Discriminative Sketch Topic Model With Structural Constraint for SAR Image Classification. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 5730-5745.	4.9	9
309	Fuzzy Superpixels Based Semi-Supervised Similarity-Constrained CNN for PolSAR Image Classification. Remote Sensing, 2020, 12, 1694.	4.0	9
310	Remote Sensing Image Super-Resolution via Dual-Resolution Network Based on Connected Attention Mechanism. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	6.3	9
311	Lightweight convolutional neural network for bitemporal SAR image change detection. Journal of Applied Remote Sensing, 2020, 14, 1.	1.3	9
312	SAR Image Change Detection Method via a Pyramid Pooling Convolutional Neural Network. , 2020, , .		9
313	A Joint Siamese Attention-Aware Network for Vehicle Object Tracking in Satellite Videos. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-17.	6.3	9
314	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
315	Shape-Adaptive Reversible Integer Lapped Transform for Lossy-to-Lossless ROI Coding of Remote Sensing Two-Dimensional Images. IEEE Geoscience and Remote Sensing Letters, 2011, 8, 326-330.	3.1	8
316	A memetic algorithm for solving flexible Job-Shop Scheduling Problems. , 2014, , .		8
317	Video denoising via spatially adaptive coefficient shrinkage and threshold adjustment in Surfacelet transform domain. Signal, Image and Video Processing, 2014, 8, 901-912.	2.7	8
318	Compressive Sensing-Inspired Dual-Sparse SLFNN for Hyperspectral Imagery Classification. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 220-224.	3.1	8
319	Nonnegative Matrix Factorization with Rank Regularization and Hard Constraint. Neural Computation, 2017, 29, 2553-2579.	2.2	8
320	A Novel Image Representation Framework Based on Gaussian Model and Evolutionary Optimization. IEEE Transactions on Evolutionary Computation, 2017, 21, 265-280.	10.0	8
321	Weak Moving Object Detection In Optical Remote Sensing Video With Motion-Drive Fusion Network. , 2019, , .		8
322	Sar Image Change Detection Based on Mean Shift Pre-Classification and Fuzzy C-Means. , 2019, , .		8
323	Unsupervised classification for polarimetric SAR images based on the improved CFSFDP algorithm. International Journal of Remote Sensing, 2019, 40, 3154-3178.	2.9	8
324	Quantum-Inspired Evolutionary Algorithm for Convolutional Neural Networks Architecture Search. , 2020, , .		8

#	ARTICLE	IF	CITATIONS
325	SSCV-GANs: Semi-Supervised Complex-Valued GANs for PolSAR Image Classification. IEEE Access, 2020, 8, 146560-146576.	4.2	8
326	Object Detection in Large-Scale Remote-Sensing Images Based on Time-Frequency Analysis and Feature Optimization. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	6.3	8
327	Attention-Guided Siamese Fusion Network for Change Detection of Remote Sensing Images. Remote Sensing, 2021, 13, 4597.	4.0	8
328	A Neural Network Based on Consistency Learning and Adversarial Learning for Semisupervised Synthetic Aperture Radar Ship Detection. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	6.3	8
329	Cluster-Memory Augmented Deep Autoencoder via Optimal Transportation for Hyperspectral Anomaly Detection. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	6.3	8
330	Lossy to lossless image compression based on reversible integer DCT. , 2008, , .		7
331	Semi-supervised Tissue Segmentation of 3D Brain MR Images. , 2010, , .		7
332	An improved multi-agent genetic algorithm for numerical optimization. Natural Computing, 2011, 10, 487-506.	3.0	7
333	SAR Image Despeckling Using Scale Mixtures of Gaussians in the Nonsampled Contourlet Domain. Chinese Journal of Electronics, 2015, 24, 205-211.	1.5	7
334	A particle swarm optimization approach for handling network social balance problem. , 2015, , .		7
335	Adaptive Constraint Propagation for Semi-Supervised Kernel Matrix Learning. Neural Processing Letters, 2015, 41, 107-123.	3.2	7
336	An intuitionistic fuzzy possibilistic C-means clustering based on genetic algorithm. , 2016, , .		7
337	Unsupervised polarimetric synthetic aperture radar image classification based on sketch map and adaptive Markov random field. Journal of Applied Remote Sensing, 2016, 10, 025008.	1.3	7
338	Image super-resolution based on the pairwise dictionary selected learning and improved bilateral regularisation. IET Image Processing, 2016, 10, 101-112.	2.5	7
339	Adaptive multimeme algorithm for flexible job shop scheduling problem. Natural Computing, 2017, 16, 677-698.	3.0	7
340	Deep Self-Paced Residual Network for Multispectral Images Classification Based on Feature-Level Fusion. IEEE Geoscience and Remote Sensing Letters, 2018, 15, 1740-1744.	3.1	7
341	Color Correction and Depth-Based Hierarchical Hole Filling in Free Viewpoint Generation. IEEE Transactions on Broadcasting, 2019, 65, 294-307.	3.2	7
342	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

#	ARTICLE	IF	CITATIONS
343	Multiobjective Guided Divide-and-Conquer Network for Hyperspectral Pansharpening. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-17.	6.3	7
344	Lightweight Multilevel Feature Fusion Network for Hyperspectral Image Classification. Remote Sensing, 2022, 14, 79.	4.0	7
345	Very Low-Resolution Moving Vehicle Detection in Satellite Videos. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-17.	6.3	7
346	MsmcNet: A Modular Few-Shot Learning Framework for Signal Modulation Classification. IEEE Transactions on Signal Processing, 2022, 70, 3789-3801.	5.3	7
347	Bayesian nonlocal means filter for SAR image despeckling. , 2009, , .		6
348	Quantum-inspired evolutionary multicast algorithm. , 2009, , .		6
349	A new constrained spectral clustering for SAR image segmentation. , 2009, , .		6
350	Hybrid multiobjective estimation of distribution algorithm by local linear embedding and an immune inspired algorithm. , 2009, , .		6
351	A hybrid multiobjective immune algorithm with region preference for decision makers. , 2010, , .		6
352	Despeckling SAR images based on a new probabilistic model in nonsubsampled contourlet transform domain. Signal, Image and Video Processing, 2014, 8, 1459-1474.	2.7	6
353	Multi-objective evolutionary for synthetic aperture radar image segmentation with non-local means denoising. Natural Computing, 2014, 13, 39-53.	3.0	6
354	Reference direction based immune clone algorithm for many-objective optimization. Frontiers of Computer Science, 2014, 8, 642-655.	2.4	6
355	Distributed SAR image change detection based on Spark. , 2015, , .		6
356	Robust routing and channel allocation in multi-hop cognitive radio networks. Wireless Networks, 2015, 21, 127-137.	3.0	6
357	2D to 3D conversion with motion-type adaptive depth estimation. Multimedia Systems, 2015, 21, 451-464.	4.7	6
358	Spatially constrained Bag-of-Visual-Words for hyperspectral image classification. , 2016, , .		6
359	Change detection in synthetic aperture radar images based on log-mean operator and stacked auto-encoder. , 2017, , .		6
360	SAR Image Speckle Reduction based on a Generative Adversarial Network. , 2020, , .		6

#	ARTICLE	IF	CITATIONS
361	Application of Data Driven Optimization for Change Detection in Synthetic Aperture Radar Images. IEEE Access, 2020, 8, 11426-11436.	4.2	6
362	A Self-Adaptive Response Strategy for Dynamic Multiobjective Evolutionary Optimization Based on Objective Space Decomposition. Evolutionary Computation, 2021, 29, 491-519.	3.0	6
363	A Decomposition-Based Evolutionary Algorithm with Correlative Selection Mechanism for Many-Objective Optimization. Evolutionary Computation, 2021, 29, 269-304.	3.0	6
364	Analytical Study on a 700 V Triple RESURF LDMOS With a Variable High- κ Dielectric Trench. IEEE Transactions on Electron Devices, 2021, 68, 2872-2878.	3.0	6
365	Sparse Nonnegative Matrix Factorization for Hyperspectral Unmixing Based on Endmember Independence and Spatial Weighted Abundance. Remote Sensing, 2021, 13, 2348.	4.0	6
366	A Multi-Scale Spatial Attention Region Proposal Network for High-Resolution Optical Remote Sensing Imagery. Remote Sensing, 2021, 13, 3362.	4.0	6
367	SAR Image Object Detection Based on Improved Cross-Entropy Loss Function with the Attention of Hard Samples. , 2021, , .		6
368	Accelerated Incremental Gradient Descent using Momentum Acceleration with Scaling Factor. , 2019, , .		6
369	A Lightweight Convolutional Neural Network for Bitemporal Image Change Detection. , 2020, , .		6
370	Remote Sensing Scene Classification Based on Global and Local Consistent Network. , 2020, , .		6
371	Hyperspectral Image Classification Based on Superpixel Feature Subdivision and Adaptive Graph Structure. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	6.3	6
372	A Collaborative Learning Tracking Network for Remote Sensing Videos. IEEE Transactions on Cybernetics, 2023, 53, 1954-1967.	9.5	6
373	Self-Tuning Semi-Supervised Spectral Clustering. , 2008, , .		5
374	Unsupervised polarimetric SAR image classification using fisher linear discriminant. , 2009, , .		5
375	A contourlet-based interpolation restoration method for super-resolution of SAR image. , 2009, , .		5
376	Memetic computation based on regulation between neural and immune systems: the framework and a case study. Science China Information Sciences, 2010, 53, 1519-1527.	4.3	5
377	An immune memory clonal algorithm for numerical and combinatorial optimization. Frontiers of Computer Science, 2010, 4, 536-559.	0.6	5
378	Fast ship detection of synthetic aperture radar images via multi-view features and clustering. , 2014, , .		5

#	ARTICLE	IF	CITATIONS
379	INVESTIGATION OF COMBINATIONAL CLUSTERING INDICES IN ARTIFICIAL IMMUNE MULTI-OBJECTIVE CLUSTERING. Computational Intelligence, 2014, 30, 115-144.	3.2	5
380	Nonlocal-Similarity-Based Sparse Coding for Hyperspectral Imagery Classification. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 1474-1478.	3.1	5
381	A new angle-based preference selection mechanism for solving many-objective optimization problems. Soft Computing, 2018, 22, 6311-6327.	3.6	5
382	PolSAR Image Classification Based on DBN and Tensor Dimensionality Reduction. , 2018, , .		5
383	A semi-supervised spatially aware wrapper method for hyperspectral band selection. International Journal of Remote Sensing, 2018, 39, 4020-4039.	2.9	5
384	Sparse Deep Tensor Extreme Learning Machine for Pattern Classification. IEEE Access, 2019, 7, 119181-119191.	4.2	5
385	signADAM++: Learning Confidences for Deep Neural Networks. , 2019, , .		5
386	A dynamic local cluster ratio-based band selection algorithm for hyperspectral images. Soft Computing, 2019, 23, 8281-8289.	3.6	5
387	Radio-Image Transformer: Bridging Radio Modulation Classification and ImageNet Classification. Electronics (Switzerland), 2020, 9, 1646.	3.1	5
388	A Hybrid Network With Structural Constraints for SAR Image Scene Classification. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-17.	6.3	5
389	Weighted Wishart distance learning for PolSAR image classification. International Journal of Remote Sensing, 2017, 38, 5232-5250.	2.9	5
390	Dynamic Graph-Level Neural Network for SAR Image Change Detection. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	5
391	Improved Clonal Selection Algorithm based on Lamarckian Local Search Technique. , 2008, , .		4
392	Feature Extraction Combining PCA and Immune Clonal Selection for Hyperspectral Remote Sensing Image Classification. , 2009, , .		4
393	Immunodomance based clonal selection clustering algorithm. , 2010, , .		4
394	Spatial improved fuzzy c-means clustering for image segmentation. , 2011, , .		4
395	Deployment optimization of near space airships based on MOEA/D with local search. , 2014, , .		4
396	A multiobjective optimization method based on MOEA/D and fuzzy clustering for change detection in SAR images. , 2014, , .		4

#	ARTICLE	IF	CITATIONS
397	Low-rank representation based action recognition. , 2014, , .		4
398	Pansharpening by exploiting sharpness of the spatial structure. International Journal of Remote Sensing, 2014, 35, 6662-6673.	2.9	4
399	Synergy of two mutations based immune multi-objective automatic fuzzy clustering algorithm. Knowledge and Information Systems, 2015, 45, 133-157.	3.2	4
400	Joint Prior Learning for Visual Sensor Network Noisy Image Super-Resolution. Sensors, 2016, 16, 288.	3.8	4
401	Learning task-driven polarimetric target decomposition: A new perspective. , 2016, , .		4
402	An improved artificial immune network algorithm for data clustering based on secondary competition selection. , 2016, , .		4
403	Application of a homogenous patch mean kernel with within-class collaborative representation for hyperspectral imagery classification. Remote Sensing Letters, 2017, 8, 11-20.	1.4	4
404	Multi-objective artificial immune algorithm for fuzzy clustering based on multiple kernels. , 2017, , .		4
405	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
406	Fast Sparse Deep Neural Networks: Theory and Performance Analysis. IEEE Access, 2019, 7, 74040-74055.	4.2	4
407	An adjustable fuzzy classification algorithm using an improved multi-objective genetic strategy based on decomposition for imbalance dataset. Knowledge and Information Systems, 2019, 61, 1583-1605.	3.2	4
408	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
409	Accuracy and Long-Term Tracking via Overlap Maximization Integrated with Motion Continuity. , 2019, , .		4
410	A Unified Scalable Equivalent Formulation for Schatten Quasi-Norms. Mathematics, 2020, 8, 1325.	2.2	4
411	New Optimization Method Based on Neural Networks for Designing Radar Waveforms With Good Correlation Properties. IEEE Access, 2021, 9, 91314-91323.	4.2	4
412	Nonlinear Projective Dictionary Pair Learning for PolSAR Image Classification. IEEE Access, 2021, 9, 70650-70661.	4.2	4
413	Representative Learning via Span-Based Mutual Information for PolSAR Image Classification. Remote Sensing, 2021, 13, 1609.	4.0	4
414	High-Resolution Remote Sensing Images Change Detection with Siamese Holistically-Guided FCN. , 2021, , .		4

#	ARTICLE	IF	CITATIONS
415	Adaptive Fuzzy Learning Superpixel Representation for PolSAR Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-18.	6.3	4
416	A Lightweight Top-Down Multi-Person Pose Estimation Method Based on Symmetric Transformation and Global Matching. IEEE Access, 2022, 10, 22112-22122.	4.2	4
417	Unsupervised image segmentation based on Nonsubsampled Contourlet hidden Markov trees model. , 2009, , .		3
418	Image compression with downsampling and overlapped transform at low bit rates. , 2009, , .		3
419	Optimizing detector distribution in V-detector negative selection using a constrained multiobjective immune algorithm. , 2010, , .		3
420	Quantum-inspired immune clonal clustering algorithm based on watershed. , 2010, , .		3
421	A Partition-Based Active Contour Model Incorporating Local Information for Image Segmentation. Scientific World Journal, The, 2014, 2014, 1-19.	2.1	3
422	Selective Ensemble Based on Transformation of Classifiers Used SPCA. International Journal of Pattern Recognition and Artificial Intelligence, 2015, 29, 1550005.	1.2	3
423	Deep community detection based on memetic algorithm. , 2015, , .		3
424	Parallel implementation of the FLICM algorithm for SAR image change detection on intel MIC. , 2016, , .		3
425	Fast semi-supervised classification based on parallel auction graph for polarimetric SAR data. , 2016, , .		3
426	Adaptive unsupervised classification of polarimetric SAR images using the improved affinity propagation clustering algorithm. International Journal of Remote Sensing, 2016, 37, 6023-6040.	2.9	3
427	Fuzzy Signature-Based Discriminative Subspace Projection for Hyperspectral Data Classification. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 4196-4202.	4.9	3
428	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
429	Graph-based hybrid hyper-heuristic channel scheduling algorithm in multicell networks. Transactions on Emerging Telecommunications Technologies, 2017, 28, e2923.	3.9	3
430	PolSAR image compression based on online sparse K-SVD dictionary learning. Multimedia Tools and Applications, 2017, 76, 24859-24870.	3.9	3
431	Fast graph-based SAR image segmentation via simple superpixels. , 2017, , .		3
432	Quantum inspired high dimensional hyperparameter optimization of machine learning model. , 2017, , .		3

#	ARTICLE	IF	CITATIONS
433	Simulated annealing-based immunodominance algorithm for multi-objective optimization problems. Knowledge and Information Systems, 2018, 55, 215-251.	3.2	3
434	Hyper-Laplacian Regularized Low-Rank Tensor Decomposition for Hyperspectral Anomaly Detection. , 2018, , .		3
435	Structural-Correlated Self-Examples Based Superresolution of Single Remote Sensing Image. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 3209-3223.	4.9	3
436	Auto Encoder Feature Learning with Utilization of Local Spatial Information and Data Distribution for Classification of PolSAR Image. Remote Sensing, 2019, 11, 1313.	4.0	3
437	A Surrogate Model Assisted Quantum-inspired Evolutionary Algorithm for Hyperparameter Optimization in Machine Learning. , 2019, , .		3
438	Complex Gaussianâ€“Bayesian Online Dictionary Learning for SAR Target Recognition with Limited Labeled Samples. IEEE Access, 2019, 7, 120626-120637.	4.2	3
439	A Novel Spatial and Temporal Context-Aware Approach for Drone-Based Video Object Detection. , 2019, , .		3
440	Semi-Coupled Convolutional Sparse Learning for Image Super-Resolution. Remote Sensing, 2019, 11, 2593.	4.0	3
441	Hyperspectral Image Classification via Slice Sparse Coding Tensor Based Classifier With Compressive Dimensionality Reduction. IEEE Access, 2020, 8, 145207-145215.	4.2	3
442	Nonoverlapped Sampling for Hyperspectral Imagery: Performance Evaluation and a Cotraining-Based Classification Strategy. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	6.3	3
443	Cross-Modal Feature Fusion Retrieval for Remote Sensing Image-Voice Retrieval. , 2021, , .		3
444	Cross-Source Image Retrieval Based on Ensemble Learning and Knowledge Distillation for Remote Sensing Images. , 2021, , .		3
445	Remote Scene Image Scene Classification Based on Adaptive Segmentation and Dynamic Graph Convolution. , 2021, , .		3
446	Structural feature learning-based unsupervised semantic segmentation of synthetic aperture radar image. Journal of Applied Remote Sensing, 2019, 13, 1.	1.3	3
447	Deep Adaptive Proposal Network in Optical Remote Sensing Images Objective Detection. , 2020, , .		3
448	Dual Modality Collaborative Learning for Cross-Source Remote Sensing Retrieval. Remote Sensing, 2022, 14, 1319.	4.0	3
449	RCNN-GAN: An Enhanced Deep Learning Approach Towards Detection of Road Cracks. , 2022, , .		3
450	Self-Supervised Self-Organizing Clustering Network: A Novel Unsupervised Representation Learning Method. IEEE Transactions on Neural Networks and Learning Systems, 2024, 35, 1857-1871.	11.3	3

#	ARTICLE	IF	CITATIONS
451	Quantum-Inspired Immune Memory Algorithm for Self-Structuring Antenna Optimization. , 2008, , .		2
452	Lifting-based directionlet transform for image coding. , 2008, , .		2
453	Improved Clonal Selection Algorithm based on Baldwinian Learning. , 2008, , .		2
454	Medical image segmentation based on immune clonal optimization. , 2009, , .		2
455	Road extraction in remote sensing images based on Nonsubsampled Contourlet Transform. , 2009, , .		2
456	SAR image retrieval based on Gaussian Mixture Model classification. , 2009, , .		2
457	A change detection algorithm based on object feature for SAR image. , 2009, , .		2
458	The despeckling of SAR image based on the curvelet transform. , 2009, , .		2
459	3D medical image compression based on multiplierless low-complexity RKL and shape-adaptive wavelet transform. , 2009, , .		2
460	Algorithm of Partition based Network Boosting for imbalanced data classification. , 2010, , .		2
461	Image segmentation via mean shift and loopy belief propagation. Wuhan University Journal of Natural Sciences, 2010, 15, 43-50.	0.4	2
462	Clonal Selection Algorithm for Image Compression. , 2010, , .		2
463	A multi-swarm particle swarm optimization with orthogonal learning for locating and tracking multiple optimization in dynamic environments. , 2014, , .		2
464	An improved three-component model-based decomposition for polarimetric SAR data. , 2014, , .		2
465	Suboptimal Solutions to the Algebraic-Error Line Triangulation. Journal of Mathematical Imaging and Vision, 2014, 49, 611-632.	1.3	2
466	Parallel fast Global K-Means algorithm for synthetic aperture radar image change detection using OpenCL. , 2015, , .		2
467	Quantum immune clone for solving constrained multi-objective optimization. , 2015, , .		2
468	Semi-supervised classification based on anchor-spatial graph for large polarimetric SAR data. , 2015, , .		2

#	ARTICLE	IF	CITATIONS
469	An Affinity-Based Algorithm in Nonsubsampled Contourlet Transform Domain: Application to Synthetic Aperture Radar Image Denoising. <i>Journal of Signal Processing Systems</i> , 2016, 83, 373-388.	2.1	2
470	Classification of PolSAR Images Based on SVM with Self-Paced Learning Optimization. , 2018, , .		2
471	Complex Scene Classification of PolSAR Imagery Based on a Self-Paced Learning Approach. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2018, 11, 4818-4825.	4.9	2
472	High-quality depth up-sampling based on multi-scale SLIC. <i>Electronics Letters</i> , 2018, 54, 494-496.	1.0	2
473	Parallel implementations of frame rate up-conversion algorithm using OpenCL on heterogeneous computing devices. <i>Multimedia Tools and Applications</i> , 2019, 78, 9311-9334.	3.9	2
474	Vehicle Detection and Tracking in Remote Sensing Satellite Video based on Dynamic Association. , 2019, , .		2
475	Object Detection and Tracking Based on Convolutional Neural Networks for High-Resolution Optical Remote Sensing Video. , 2019, , .		2
476	Regularized Sparse Band Selection via Learned Pairwise Agreement. <i>IEEE Access</i> , 2020, 8, 40096-40105.	4.2	2
477	Background Representation Learning With Structural Constraint for Hyperspectral Anomaly Detection. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2022, 19, 1-5.	3.1	2
478	SAR Image Registration Based on ROEWA-Blocks and Multiscale Circle Descriptor. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2021, 14, 10614-10627.	4.9	2
479	Multi-View Attention Network for Remote Sensing Image Captioning. , 2021, , .		2
480	A Feature Decomposition Framework for Multi-Modal Image Patch Matching. , 2021, , .		2
481	MRTA: Multi-Resolution Training Algorithm for Multitemporal Semantic Change Detection. , 2021, , .		2
482	DO-UNet, DO-LinkNet: UNet, D-LinkNet with DO-Conv for the Detection of Settlements without Electricity Challenge. , 2021, , .		2
483	Multisource Data Fusion for the Detection of Settlements Without Electricity. , 2021, , .		2
484	Multi-Scale Meta-Learning-Based Networks for High-Resolution Remote Sensing Scene Classification. , 2021, , .		2
485	Sar Image Change Detection via a Few-Shot Learning-Based Neural Network. , 2021, , .		2
486	Reconstruction Error-Based Decomposition Feature Selection for PolSAR Image. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-19.	6.3	2

#	ARTICLE	IF	CITATIONS
487	Supervised Adaptive-RPN Network for Object Detection in Remote Sensing Images. , 2020, , .		2
488	Electromagnetic Signal Classification Based on Class Exemplar Selection and Multi-Objective Linear Programming. Remote Sensing, 2022, 14, 1177.	4.0	2
489	A Collaborative Correlation-Matching Network for Multimodality Remote Sensing Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-18.	6.3	2
490	A Modified U-Net Architecture for Road Surfaces Cracks Detection. , 2022, , .		2
491	Support vector novelty detection with dot product kernels for non-spherical data. , 2008, , .		1
492	Hybrid Immune Algorithm with intelligent recombination. , 2009, , .		1
493	Change detection in SAR image based on multisacle product and PCA. , 2009, , .		1
494	A Parallel Artificial Immune Model for Optimization. , 2009, , .		1
495	Clustering via dimensional reduction method for the projection pursuit based on the ICSA. Journal of Electronics, 2010, 27, 474-479.	0.2	1
496	A Non-Local Means Filter with Translating Invariant Shearlet Feature Descriptors. , 2010, , .		1
497	A memetic algorithm using local structural information for detecting community structure in complex networks. , 2014, , .		1
498	Unsupervised classification of polarimetric SAR images integrating color features. , 2014, , .		1
499	Inter-frame constrained coding based on superpixel for tracking. Visual Computer, 2015, 31, 701-715.	3.5	1
500	Threshold image segmentation based on dynamic mutation and background cooperation. , 2015, , .		1
501	Korean-English bilingual videotext recognition for news headline generation based on a split-merge strategy. Journal of Real-Time Image Processing, 2016, 11, 167-177.	3.5	1
502	Unsupervised PolSAR image classification using boundary-preserving region division and region-based affinity propagation clustering. , 2016, , .		1
503	Evolutionary algorithm using converted problems. , 2016, , .		1
504	Soft subspace clustering using differential evolutionary algorithm. , 2016, , .		1

#	ARTICLE	IF	CITATIONS
505	SAR image change detection based on Spark-FLICM algorithm. , 2016, , .		1
506	Consistency-Constrained Nonnegative Coding for Tracking. IEEE Transactions on Circuits and Systems for Video Technology, 2017, 27, 880-891.	8.3	1
507	Hierarchical Sparse Bayesian Learning with Beta Process Priors for Hyperspectral Imagery Restoration. IEICE Transactions on Information and Systems, 2017, E100.D, 350-358.	0.7	1
508	Circular Relevance Feedback for Remote Sensing Image Retrieval. , 2018, , .		1
509	Spatial Fuzzy Clustering and Deep Auto-encoder for Unsupervised Change Detection in Synthetic Aperture Radar Images. , 2018, , .		1
510	Truncated Graph-Regularized Low Rank Representation for Link Prediction. IEEE Access, 2019, 7, 48224-48235.	4.2	1
511	Pulsar Image Classification Based on Polarimetric Scattering Coding and Sparse Support Matrix Machine. , 2019, , .		1
512	Pixel Dag-Recurrent Neural Network for Spectral-Spatial Hyperspectral Image Classification. , 2019, , .		1
513	A novel location-based DNA matching algorithm for hyperspectral image classification. Memetic Computing, 2019, 11, 175-191.	4.0	1
514	Optimization based on nonlinear transformation in decision space. Soft Computing, 2019, 23, 3571-3590.	3.6	1
515	Multi-Resolution Prediction Model Based on Community Relevance for Missing Links Prediction. IEEE Access, 2020, 8, 113981-113993.	4.2	1
516	A Two-Stage Evolutionary Fuzzy Clustering Framework for Noisy Image Segmentation. IEEE Access, 2020, 8, 186663-186678.	4.2	1
517	Hyperspectral Image Super-Resolution Based on Tensor Spatial-Spectral Joint Correlation Regularization. IEEE Access, 2020, 8, 63654-63665.	4.2	1
518	Deep Feature-Based Multitask Joint Sparse Representation for Hyperspectral Image Classification. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 1578-1582.	3.1	1
519	Structure Label Matrix Completion for PolSAR Image Classification. Remote Sensing, 2020, 12, 459.	4.0	1
520	N-Cluster Loss and Hard Sample Generative Deep Metric Learning for PolSAR Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	6.3	1
521	Cascade Attention Fusion for Fine-Grained Image Captioning Based on Multi-Layer LSTM. , 2021, , .		1
522	Graph-Level Neural Network for SAR Image Change Detection. , 2021, , .		1

#	ARTICLE	IF	CITATIONS
523	Hyperspectral Image Classification Based on Spectral Graph and Bidirectional LSTM Network. , 2021, , .		1
524	Deep Global Feature-Based Template Matching for Fast Multi-Modal Image Registration. , 2021, , .		1
525	Application of a Hyper-Parameter Optimization Algorithm using Mars Surrogate for Deep Polars Image Classification Models. , 2020, , .		1
526	Robust Deep Representation Learning for Road Crack Detection. , 2021, , .		1
527	Optimal Approximation of Linear Systems by an Improved Clonal Selection Algorithm. , 2008, , .		0
528	Isomorous multiple classifier ensemble method with SVM and KMP. , 2008, , .		0
529	Human Detection Based on Second Generation Bandelet Transform. , 2009, , .		0
530	Design RF diplexer by directional immune clonal selection algorithm. , 2009, , .		0
531	Concatenated edge and co-occurrence feature extracted from Curvelet Transform for human detection. , 2010, , .		0
532	Single image super-resolution via learned representative features and sparse manifold embedding. , 2014, , .		0
533	Classifications with transferred samples based on RF-spaces. , 2014, , .		0
534	A multiscale region-based approach to automatic SAR image registration using CLPSO. , 2014, , .		0
535	Tracking with scattering descriptor. IET Computer Vision, 2014, 8, 195-206.	2.0	0
536	The SAR image segmentation superpixel-based with optimized spatial information. , 2014, , .		0
537	External and internal learning for single-image super-resolution. , 2015, , .		0
538	Tracking with spatial constrained coding. IET Computer Vision, 2015, 9, 63-74.	2.0	0
539	MOQPSO: A new quantum-behaved particle swarm optimization for nearest neighborhood classification. , 2016, , .		0
540	A commentary and correction on the article "Pansharpener by exploiting sharpness of the spatial structure", International Journal of Remote Sensing, 2016, 37, 1315-1318.	2.9	0

#	ARTICLE	IF	CITATIONS
541	Coastal zone land-use classification of full-polarization SAR data based on joint sparse. , 2016, , .		0
542	Soft subspace clustering using QPSOSC algorithm. , 2017, , .		0
543	Large-scale data clustering algorithm based on quantum immune regulation network. , 2017, , .		0
544	Weighted Single-Pass Fuzzy c-Means Algorithm Based on Density Peaks. , 2018, , .		0
545	Fully Convolutional Semi-Supervised Gan for Polsar Classification. , 2018, , .		0
546	SAR Image Change Detection Based on Conditional Spatial and Kernel Fuzzy C-Means. , 2018, , .		0
547	Semi-Supervised Pyramid Feature Co-Training Network for Lidar Data Classification. , 2019, , .		0
548	Stochastic Recursive Gradient Support Pursuit and Its Sparse Representation Applications. Sensors, 2020, 20, 4902.	3.8	0
549	Hyperspectral Image Classification Based on Multiscale Spatial and Spectral Feature Network. , 2020, , .		0
550	A Deep Generalized Correlation Network for Bitemporal Image Change Detection. , 2020, , .		0
551	Weakly Supervised Land Cover Classification Method For Large-Scale Multi-Resolution Labeled Satellite Images Data Sets. , 2020, , .		0
552	Dual-Graph Global and Local Concept Factorization for Data Clustering. IEEE Transactions on Neural Networks and Learning Systems, 2024, 35, 803-816.	11.3	0