

# Licheng Jiao

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8786729/publications.pdf>

Version: 2024-02-01

515  
papers

18,168  
citations

14655

66  
h-index

27406

106  
g-index

518  
all docs

518  
docs citations

518  
times ranked

10719  
citing authors

#	ARTICLE	IF	CITATIONS
1	MOEA/D with Adaptive Weight Adjustment. <i>Evolutionary Computation</i> , 2014, 22, 231-264.	3.0	727
2	Change Detection in Synthetic Aperture Radar Images Based on Deep Neural Networks. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2016, 27, 125-138.	11.3	481
3	Multiobjective Immune Algorithm with Nondominated Neighbor-Based Selection. <i>Evolutionary Computation</i> , 2008, 16, 225-255.	3.0	466
4	Residual Spectral-Spatial Attention Network for Hyperspectral Image Classification. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021, 59, 449-462.	6.3	267
5	Remote Sensing Image Registration With Modified SIFT and Enhanced Feature Matching. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2017, 14, 3-7.	3.1	252
6	A Novel Point-Matching Algorithm Based on Fast Sample Consensus for Image Registration. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2015, 12, 43-47.	3.1	248
7	A Novel Coarse-to-Fine Scheme for Automatic Image Registration Based on SIFT and Mutual Information. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2014, 52, 4328-4338.	6.3	244
8	Community detection in networks by using multiobjective evolutionary algorithm with decomposition. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2012, 391, 4050-4060.	2.6	211
9	A deep learning framework for remote sensing image registration. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2018, 145, 148-164.	11.1	207
10	Spectral Clustering Ensemble Applied to SAR Image Segmentation. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2008, 46, 2126-2136.	6.3	199
11	Memetic algorithm for community detection in networks. <i>Physical Review E</i> , 2011, 84, 056101.	2.1	187
12	Image fusion based on a new contourlet packet. <i>Information Fusion</i> , 2010, 11, 78-84.	19.1	174
13	Community detection based on modularity and an improved genetic algorithm. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2013, 392, 1215-1231.	2.6	173
14	Deep Fully Convolutional Network-Based Spatial Distribution Prediction for Hyperspectral Image Classification. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2017, 55, 5585-5599.	6.3	172
15	Fast Sparse Approximation for Least Squares Support Vector Machine. <i>IEEE Transactions on Neural Networks</i> , 2007, 18, 685-697.	4.2	169
16	SAR Image segmentation based on convolutional-wavelet neural network and markov random field. <i>Pattern Recognition</i> , 2017, 64, 255-267.	8.1	163
17	Adaptive Tracking for Periodically Time-Varying and Nonlinearly Parameterized Systems Using Multilayer Neural Networks. <i>IEEE Transactions on Neural Networks</i> , 2010, 21, 345-351.	4.2	153
18	POL-SAR Image Classification Based on Wishart DBN and Local Spatial Information. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2016, 54, 3292-3308.	6.3	140

#	ARTICLE	IF	CITATIONS
19	A Novel Immune Clonal Algorithm for MO Problems. IEEE Transactions on Evolutionary Computation, 2012, 16, 35-50.	10.0	135
20	Hyperspectral Unmixing via Deep Convolutional Neural Networks. IEEE Geoscience and Remote Sensing Letters, 2018, 15, 1755-1759.	3.1	132
21	A Survey on the New Generation of Deep Learning in Image Processing. IEEE Access, 2019, 7, 172231-172263.	4.2	129
22	Discriminant deep belief network for high-resolution SAR image classification. Pattern Recognition, 2017, 61, 686-701.	8.1	127
23	Constrained Subproblems in a Decomposition-Based Multiobjective Evolutionary Algorithm. IEEE Transactions on Evolutionary Computation, 2016, 20, 475-480.	10.0	126
24	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
25	Quantum-Inspired Immune Clonal Algorithm for Global Optimization. IEEE Transactions on Systems, Man, and Cybernetics, 2008, 38, 1234-1253.	5.0	119
26	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
27	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
28	Wishart Deep Stacking Network for Fast POLSAR Image Classification. IEEE Transactions on Image Processing, 2016, 25, 3273-3286.	9.8	110
29	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
30	Personalized Recommendation Based on Evolutionary Multi-Objective Optimization [Research Frontier]. IEEE Computational Intelligence Magazine, 2015, 10, 52-62.	3.2	107
31	Robust adaptive global synchronization of complex dynamical networks by adjusting time-varying coupling strength. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 1369-1380.	2.6	106
32	Multi-level learning based memetic algorithm for community detection. Applied Soft Computing Journal, 2014, 19, 121-133.	7.2	103
33	Non-Negative Spectral Learning and Sparse Regression-Based Dual-Graph Regularized Feature Selection. IEEE Transactions on Cybernetics, 2018, 48, 793-806.	9.5	103
34	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
35	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
36	Hyperspectral Anomaly Detection via Background and Potential Anomaly Dictionaries Construction. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 2263-2276.	6.3	100

#	ARTICLE	IF	CITATIONS
37	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
38	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
39	Unsupervised feature selection based on maximum information and minimum redundancy for hyperspectral images. Pattern Recognition, 2016, 51, 295-309.	8.1	97
40	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
41	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
42	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
43	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
44	C-CNN: Contourlet Convolutional Neural Networks. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 2636-2649.	11.3	87
45	Quantum-behaved discrete multi-objective particle swarm optimization for complex network clustering. Pattern Recognition, 2017, 63, 1-14.	8.1	86
46	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
47	Fusion of multispectral and panchromatic images based on support value transform and adaptive principal component analysis. Information Fusion, 2012, 13, 177-184.	19.1	81
48	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
49	Polarimetric Convolutional Network for PolSAR Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 3040-3054.	6.3	79
50	Unsupervised Deep Feature Learning for Remote Sensing Image Retrieval. Remote Sensing, 2018, 10, 1243.	4.0	78
51	Local Restricted Convolutional Neural Network for Change Detection in Polarimetric SAR Images. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 818-833.	11.3	78
52	Dense connection and depthwise separable convolution based CNN for polarimetric SAR image classification. Knowledge-Based Systems, 2020, 194, 105542.	7.1	77
53	A Deep Neural Network Based on an Attention Mechanism for SAR Ship Detection in Multiscale and Complex Scenarios. IEEE Access, 2019, 7, 104848-104863.	4.2	75
54	Subspace learning-based graph regularized feature selection. Knowledge-Based Systems, 2016, 112, 152-165.	7.1	74

#	ARTICLE	IF	CITATIONS
55	Transferred Deep Learning-Based Change Detection in Remote Sensing Images. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 6960-6973.	6.3	74
56	Global discriminative-based nonnegative spectral clustering. Pattern Recognition, 2016, 55, 172-182.	8.1	73
57	Generative Adversarial Networks Based on Collaborative Learning and Attention Mechanism for Hyperspectral Image Classification. Remote Sensing, 2020, 12, 1149.	4.0	73
58	An organizational coevolutionary algorithm for classification. IEEE Transactions on Evolutionary Computation, 2006, 10, 67-80.	10.0	72
59	A two-stage hybrid ant colony optimization for high-dimensional feature selection. Pattern Recognition, 2021, 116, 107933.	8.1	72
60	Deep Hash Learning for Remote Sensing Image Retrieval. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 3420-3443.	6.3	71
61	CNN-Based Multilayer Spatial-Spectral Feature Fusion and Sample Augmentation With Local and Nonlocal Constraints for Hyperspectral Image Classification. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 1299-1313.	4.9	70
62	Deep Multi-View Subspace Clustering With Unified and Discriminative Learning. IEEE Transactions on Multimedia, 2021, 23, 3483-3493.	7.2	70
63	Multitask dictionary learning and sparse representation based single-image super-resolution reconstruction. Neurocomputing, 2011, 74, 3193-3203.	5.9	69
64	SAR change detection based on intensity and texture changes. ISPRS Journal of Photogrammetry and Remote Sensing, 2014, 93, 123-135.	11.1	68
65	Recursive Autoencoders-Based Unsupervised Feature Learning for Hyperspectral Image Classification. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 1928-1932.	3.1	68
66	Evolving deep convolutional neural networks by quantum behaved particle swarm optimization with binary encoding for image classification. Neurocomputing, 2019, 362, 156-165.	5.9	68
67	Task-Oriented GAN for PolSAR Image Classification and Clustering. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 2707-2719.	11.3	68
68	Modified Co-Training With Spectral and Spatial Views for Semisupervised Hyperspectral Image Classification. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 2044-2055.	4.9	67
69	Fuzzy Double C-Means Clustering Based on Sparse Self-Representation. IEEE Transactions on Fuzzy Systems, 2018, 26, 612-626.	9.8	67
70	POLSAR Image Classification via Wishart-AE Model or Wishart-CAE Model. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 3604-3615.	4.9	67
71	Self-representation based dual-graph regularized feature selection clustering. Neurocomputing, 2016, 171, 1242-1253.	5.9	66
72	A multi-population cooperative coevolutionary algorithm for multi-objective capacitated arc routing problem. Information Sciences, 2014, 277, 609-642.	6.9	65

#	ARTICLE	IF	CITATIONS
73	Multi-scale Adaptive Feature Fusion Network for Semantic Segmentation in Remote Sensing Images. Remote Sensing, 2020, 12, 872.	4.0	63
74	Supervised Band Selection Using Local Spatial Information for Hyperspectral Image. IEEE Geoscience and Remote Sensing Letters, 2016, , 1-5.	3.1	62
75	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
76	Deep Multiple Instance Learning-Based Spatial Spectral Classification for PAN and MS Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 461-473.	6.3	62
77	New Generation Deep Learning for Video Object Detection: A Survey. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 3195-3215.	11.3	62
78	Feature selection based dual-graph sparse non-negative matrix factorization for local discriminative clustering. Neurocomputing, 2018, 290, 87-99.	5.9	61
79	Adaptive Multiscale Deep Fusion Residual Network for Remote Sensing Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 8506-8521.	6.3	61
80	Quantum immune clonal coevolutionary algorithm for dynamic multiobjective optimization. Soft Computing, 2014, 18, 743-756.	3.6	60
81	Fusion of multispectral and panchromatic images via sparse representation and local autoregressive model. Information Fusion, 2014, 20, 73-87.	19.1	60
82	Multilayer CFAR Detection of Ship Targets in Very High Resolution SAR Images. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 811-815.	3.1	60
83	Dual-graph regularized non-negative matrix factorization with sparse and orthogonal constraints. Engineering Applications of Artificial Intelligence, 2018, 69, 24-35.	8.1	60
84	Multiwavelet neural network and its approximation properties. IEEE Transactions on Neural Networks, 2001, 12, 1060-1066.	4.2	59
85	SAR Images Retrieval Based on Semantic Classification and Region-Based Similarity Measure for Earth Observation. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 3876-3891.	4.9	59
86	A Novel Neural Network for Remote Sensing Image Matching. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 2853-2865.	11.3	59
87	Artificial immune multi-objective SAR image segmentation with fused complementary features. Information Sciences, 2011, 181, 2797-2812.	6.9	58
88	Unsupervised saliency-guided SAR image change detection. Pattern Recognition, 2017, 61, 309-326.	8.1	56
89	Multifeature Hyperspectral Image Classification With Local and Nonlocal Spatial Information via Markov Random Field in Semantic Space. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 1409-1424.	6.3	56
90	Quantum Optimization and Quantum Learning: A Survey. IEEE Access, 2020, 8, 23568-23593.	4.2	56

#	ARTICLE	IF	CITATIONS
91	An improved cooperative quantum-behaved particle swarm optimization. <i>Soft Computing</i> , 2012, 16, 1061-1069.	3.6	55
92	Pan-sharpening via deep metric learning. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2018, 145, 165-183.	11.1	55
93	Fuzzy Superpixels for Polarimetric SAR Images Classification. <i>IEEE Transactions on Fuzzy Systems</i> , 2018, 26, 2846-2860.	9.8	55
94	Deep Multiscale Spectral-Spatial Feature Fusion for Hyperspectral Images Classification. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2018, 11, 2911-2924.	4.9	55
95	A multiobjective evolutionary algorithm to find community structures based on affinity propagation. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2016, 453, 203-227.	2.6	54
96	Stacked Fisher autoencoder for SAR change detection. <i>Pattern Recognition</i> , 2019, 96, 106971.	8.1	54
97	Aerial Image Road Extraction Based on an Improved Generative Adversarial Network. <i>Remote Sensing</i> , 2019, 11, 930.	4.0	54
98	Prediction of missing links based on community relevance and ruler inference. <i>Knowledge-Based Systems</i> , 2016, 98, 200-215.	7.1	53
99	CNN-Based Polarimetric Decomposition Feature Selection for PolSAR Image Classification. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019, 57, 8796-8812.	6.3	52
100	Local discriminative based sparse subspace learning for feature selection. <i>Pattern Recognition</i> , 2019, 92, 219-230.	8.1	52
101	SAR Image Content Retrieval Based on Fuzzy Similarity and Relevance Feedback. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2017, 10, 1824-1842.	4.9	51
102	Building Extraction of Aerial Images by a Global and Multi-Scale Encoder-Decoder Network. <i>Remote Sensing</i> , 2020, 12, 2350.	4.0	51
103	Attention Multibranch Convolutional Neural Network for Hyperspectral Image Classification Based on Adaptive Region Search. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021, 59, 5054-5070.	6.3	50
104	Understanding Private Car Aggregation Effect via Spatio-Temporal Analysis of Trajectory Data. <i>IEEE Transactions on Cybernetics</i> , 2023, 53, 2346-2357.	9.5	49
105	Convolutional Neural Network Based on Bandwise-Independent Convolution and Hard Thresholding for Hyperspectral Band Selection. <i>IEEE Transactions on Cybernetics</i> , 2021, 51, 4414-4428.	9.5	48
106	MOEA/D with uniform decomposition measurement for many-objective problems. <i>Soft Computing</i> , 2014, 18, 2541-2564.	3.6	47
107	Two-Stage Reranking for Remote Sensing Image Retrieval. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2017, 55, 5798-5817.	6.3	47
108	Hyperspectral Unmixing via Low-Rank Representation with Space Consistency Constraint and Spectral Library Pruning. <i>Remote Sensing</i> , 2018, 10, 339.	4.0	47



#	ARTICLE	IF	CITATIONS
109	MSARN: A Deep Neural Network Based on an Adaptive Recalibration Mechanism for Multiscale and Arbitrary-Oriented SAR Ship Detection. <i>IEEE Access</i> , 2019, 7, 159262-159283.	4.2	47
110	Sparse and low-redundant subspace learning-based dual-graph regularized robust feature selection. <i>Knowledge-Based Systems</i> , 2020, 187, 104830.	7.1	47
111	A Dual-Branch Attention fusion deep network for multiresolution remote sensing image classification. <i>Information Fusion</i> , 2020, 58, 116-131.	19.1	47
112	GRS-Det: An Anchor-Free Rotation Ship Detector Based on Gaussian-Mask in Remote Sensing Images. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021, 59, 3518-3531.	6.3	47
113	A spatial-channel progressive fusion ResNet for remote sensing classification. <i>Information Fusion</i> , 2021, 70, 72-87.	19.1	46
114	Difference representation learning using stacked restricted Boltzmann machines for change detection in SAR images. <i>Soft Computing</i> , 2016, 20, 4645-4657.	3.6	45
115	Adaptive Super-Resolution for Remote Sensing Images Based on Sparse Representation With Global Joint Dictionary Model. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2018, 56, 2312-2327.	6.3	45
116	Cross-Layer Attention Network for Small Object Detection in Remote Sensing Imagery. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2021, 14, 2148-2161.	4.9	45
117	Change detection in SAR images by artificial immune multi-objective clustering. <i>Engineering Applications of Artificial Intelligence</i> , 2014, 31, 53-67.	8.1	44
118	Overlapping community detection through an improved multi-objective quantum-behaved particle swarm optimization. <i>Journal of Heuristics</i> , 2015, 21, 549-575.	1.4	44
119	Multiple Kernel Learning Based on Discriminative Kernel Clustering for Hyperspectral Band Selection. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2016, 54, 6516-6530.	6.3	44
120	Hierarchical semantic model and scattering mechanism based PolSAR image classification. <i>Pattern Recognition</i> , 2016, 59, 325-342.	8.1	44
121	Semi-supervised double sparse graphs based discriminant analysis for dimensionality reduction. <i>Pattern Recognition</i> , 2017, 61, 361-378.	8.1	44
122	Multimodal Remote Sensing Image Registration Based on Image Transfer and Local Features. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2019, 16, 1210-1214.	3.1	44
123	Complex Contourlet-CNN for polarimetric SAR image classification. <i>Pattern Recognition</i> , 2020, 100, 107110.	8.1	44
124	Hyperspectral Image Classification Based on Deep Attention Graph Convolutional Network. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-16.	6.3	44
125	Hyperspectral Imagery Classification Based on Contrastive Learning. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-13.	6.3	44
126	A new quantum-behaved particle swarm optimization based on cultural evolution mechanism for multiobjective problems. <i>Knowledge-Based Systems</i> , 2016, 101, 90-99.	7.1	43



#	ARTICLE	IF	CITATIONS
127	Multi-objective evolutionary fuzzy clustering for image segmentation with MOEA/D. <i>Applied Soft Computing Journal</i> , 2016, 48, 621-637.	7.2	43
128	Semi-Supervised Graph Regularized Deep NMF With Bi-Orthogonal Constraints for Data Representation. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2020, 31, 3245-3258.	11.3	43
129	Fully Convolutional Network-Based Ensemble Method for Road Extraction From Aerial Images. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2020, 17, 1777-1781.	3.1	43
130	Self-Supervised Representation Learning for Remote Sensing Image Change Detection Based on Temporal Prediction. <i>Remote Sensing</i> , 2020, 12, 1868.	4.0	43
131	Object-level saliency detection with color attributes. <i>Pattern Recognition</i> , 2016, 49, 162-173.	8.1	42
132	Hyperspectral Image Classification by Spatial-Spectral Derivative-Aided Kernel Joint Sparse Representation. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2015, 8, 2485-2500.	4.9	41
133	Efficient Convolutional Neural Architecture Search for Remote Sensing Image Scene Classification. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021, 59, 6092-6105.	6.3	41
134	An Unsupervised Remote Sensing Change Detection Method Based on Multiscale Graph Convolutional Network and Metric Learning. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-15.	6.3	41
135	Weighted classifier ensemble based on quadratic form. <i>Pattern Recognition</i> , 2015, 48, 1688-1706.	8.1	40
136	SAR Image Registration Based on Multifeature Detection and Arborescence Network Matching. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2016, 13, 706-710.	3.1	40
137	A Sparse Spectral Clustering Framework via Multiobjective Evolutionary Algorithm. <i>IEEE Transactions on Evolutionary Computation</i> , 2016, 20, 418-433.	10.0	40
138	Multilayer Projective Dictionary Pair Learning and Sparse Autoencoder for PolSAR Image Classification. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2017, 55, 6683-6694.	6.3	40
139	Fuzzy Sparse Autoencoder Framework for Single Image Per Person Face Recognition. <i>IEEE Transactions on Cybernetics</i> , 2018, 48, 2402-2415.	9.5	40
140	A Deep Detection Network Based on Interaction of Instance Segmentation and Object Detection for SAR Images. <i>Remote Sensing</i> , 2021, 13, 2582.	4.0	40
141	NAS-Guided Lightweight Multiscale Attention Fusion Network for Hyperspectral Image Classification. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021, 59, 8754-8767.	6.3	40
142	SAR Image Classification via Hierarchical Sparse Representation and Multisize Patch Features. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2016, 13, 33-37.	3.1	39
143	VR-SGD: A Simple Stochastic Variance Reduction Method for Machine Learning. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2020, 32, 188-202.	5.7	38
144	Multitask Semantic Boundary Awareness Network for Remote Sensing Image Segmentation. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-14.	6.3	38

#	ARTICLE	IF	CITATIONS
145	MOEA/D with biased weight adjustment inspired by user preference and its application on multi-objective reservoir flood control problem. <i>Soft Computing</i> , 2016, 20, 4999-5023.	3.6	37
146	A community integration strategy based on an improved modularity density increment for large-scale networks. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2017, 469, 471-485.	2.6	37
147	Synchronization in complex dynamical networks with nonsymmetric coupling. <i>Physica D: Nonlinear Phenomena</i> , 2008, 237, 2487-2498.	2.8	36
148	Fusion Similarity-Based Reranking for SAR Image Retrieval. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2017, 14, 242-246.	3.1	36
149	Local Descriptor Learning for Change Detection in Synthetic Aperture Radar Images via Convolutional Neural Networks. <i>IEEE Access</i> , 2019, 7, 15389-15403.	4.2	36
150	Spectral-spatial hyperspectral image ensemble classification via joint sparse representation. <i>Pattern Recognition</i> , 2016, 59, 42-54.	8.1	35
151	Tensor-Based Low-Rank Graph With Multimanifold Regularization for Dimensionality Reduction of Hyperspectral Images. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2018, 56, 4731-4746.	6.3	35
152	Imbalanced Learning-Based Automatic SAR Images Change Detection by Morphologically Supervised PCA-Net. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2019, 16, 554-558.	3.1	35
153	Semi-Supervised Deep Fuzzy C-Mean Clustering for Imbalanced Multi-Class Classification. <i>IEEE Access</i> , 2019, 7, 28100-28112.	4.2	34
154	Dual space latent representation learning for unsupervised feature selection. <i>Pattern Recognition</i> , 2021, 114, 107873.	8.1	34
155	Image change detection based on an improved rough fuzzy c-means clustering algorithm. <i>International Journal of Machine Learning and Cybernetics</i> , 2014, 5, 369-377.	3.6	33
156	Imbalanced Hyperspectral Image Classification Based on Maximum Margin. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2015, 12, 522-526.	3.1	33
157	Multipath Residual Network for Spectral-Spatial Hyperspectral Image Classification. <i>Remote Sensing</i> , 2019, 11, 1896.	4.0	33
158	Semisupervised Feature Extraction With Neighborhood Constraints for Polarimetric SAR Classification. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2016, 9, 3001-3015.	4.9	32
159	Community mining using three closely joint techniques based on community mutual membership and refinement strategy. <i>Applied Soft Computing Journal</i> , 2017, 61, 1060-1073.	7.2	32
160	Large-Scale Remote Sensing Image Retrieval Based on Semi-Supervised Adversarial Hashing. <i>Remote Sensing</i> , 2019, 11, 2055.	4.0	32
161	Semi-Supervised Hyperspectral Band Selection Based on Dynamic Classifier Selection. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2019, 12, 1289-1298.	4.9	32
162	Semi-Supervised PolSAR Image Classification Based on Improved Tri-Training With a Minimum Spanning Tree. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020, 58, 8583-8597.	6.3	32

#	ARTICLE	IF	CITATIONS
163	Deep Reinforcement Learning for Semisupervised Hyperspectral Band Selection. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-19.	6.3	32
164	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
165	Feature Split-merge-enhancement Network for Remote Sensing Object Detection. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-17.	6.3	32
166	An Improved Decomposition-Based Memetic Algorithm for Multi-Objective Capacitated Arc Routing Problem. Applied Soft Computing Journal, 2014, 19, 343-361.	7.2	31
167	PolSAR Image Classification via D-KSVD and NSCT-Domain Features Extraction. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 227-231.	3.1	31
168	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
169	Large Polarimetric SAR Data Semi-Supervised Classification With Spatial-Anchor Graph. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 1439-1458.	4.9	31
170	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
171	A modified convolutional neural network for face sketch synthesis. Pattern Recognition, 2018, 76, 125-136.	8.1	31
172	A Novel Deep Fully Convolutional Network for PolSAR Image Classification. Remote Sensing, 2018, 10, 1984.	4.0	31
173	A Novel Multi-Model Decision Fusion Network for Object Detection in Remote Sensing Images. Remote Sensing, 2019, 11, 737.	4.0	31
174	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
175	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
176	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
177	Classification of PolSAR Images Using Multilayer Autoencoders and a Self-Paced Learning Approach. Remote Sensing, 2018, 10, 110.	4.0	30
178	SAR image change detection based on deep denoising and CNN. IET Image Processing, 2019, 13, 1509-1515.	2.5	30
179	Maximizing diversity by transformed ensemble learning. Applied Soft Computing Journal, 2019, 82, 105580.	7.2	30
180	iCmSC: Incomplete Cross-Modal Subspace Clustering. IEEE Transactions on Image Processing, 2021, 30, 305-317.	9.8	30

#	ARTICLE	IF	CITATIONS
181	A self-paced learning algorithm for change detection in synthetic aperture radar images. Signal Processing, 2018, 142, 375-387.	3.7	29
182	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
183	Hyperspectral imagery classification with deep metric learning. Neurocomputing, 2019, 356, 217-227.	5.9	29
184	AFD-Net: Aggregated Feature Difference Learning for Cross-Spectral Image Patch Matching. , 2019, , .		29
185	Fully Dense Multiscale Fusion Network for Hyperspectral Image Classification. Remote Sensing, 2019, 11, 2718.	4.0	29
186	Multi-objective artificial immune algorithm for fuzzy clustering based on multiple kernels. Swarm and Evolutionary Computation, 2019, 50, 100485.	8.1	29
187	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
188	Dual-Channel Capsule Generation Adversarial Network for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	6.3	29
189	Multi-objective evolutionary design and knowledge discovery of logic circuits based on an adaptive genetic algorithm. Genetic Programming and Evolvable Machines, 2006, 7, 195-210.	2.2	28
190	Data-Driven Compressive Sampling and Learning Sparse Coding for Hyperspectral Image Classification. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 479-483.	3.1	28
191	Decomposition-Feature-Iterative-Clustering-Based Superpixel Segmentation for PolSAR Image Classification. IEEE Geoscience and Remote Sensing Letters, 2018, 15, 1239-1243.	3.1	28
192	Selective multiple kernel learning for classification with ensemble strategy. Pattern Recognition, 2013, 46, 3081-3090.	8.1	27
193	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
194	Change-Detection Map Learning Using Matching Pursuit. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 4712-4723.	6.3	27
195	A new patch based change detector for polarimetric SAR data. Pattern Recognition, 2015, 48, 685-695.	8.1	27
196	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
197	GAFnet: Group Attention Fusion Network for PAN and MS Image High-Resolution Classification. IEEE Transactions on Cybernetics, 2022, 52, 10556-10569.	9.5	27
198	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

#	ARTICLE	IF	CITATIONS
199	Fast unsupervised deep fusion network for change detection of multitemporal SAR images. <i>Neurocomputing</i> , 2019, 332, 56-70.	5.9	26
200	Deep multi-level fusion network for multi-source image pixel-wise classification. <i>Knowledge-Based Systems</i> , 2021, 221, 106921.	7.1	26
201	A Mutual Information-Based Self-Supervised Learning Model for PolSAR Land Cover Classification. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021, 59, 9224-9237.	6.3	26
202	DPFL-Nets: Deep Pyramid Feature Learning Networks for Multiscale Change Detection. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2022, 33, 6402-6416.	11.3	26
203	Deep Multiview Union Learning Network for Multisource Image Classification. <i>IEEE Transactions on Cybernetics</i> , 2022, 52, 4534-4546.	9.5	26
204	Radar target recognition using contourlet packet transform and neural network approach. <i>Signal Processing</i> , 2009, 89, 394-409.	3.7	25
205	Local Maximal Homogeneous Region Search for SAR Speckle Reduction With Sketch-Based Geometrical Kernel Function. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2014, 52, 5751-5764.	6.3	25
206	A Fast Algorithm for SAR Image Segmentation Based on Key Pixels. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2017, 10, 5657-5673.	4.9	25
207	Dimensionality Reduction of Hyperspectral Imagery Using Sparse Graph Learning. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2017, 10, 1165-1181.	4.9	25
208	Densely connected deep random forest for hyperspectral imagery classification. <i>International Journal of Remote Sensing</i> , 2019, 40, 3606-3622.	2.9	25
209	SAR Image Segmentation Using Region Smoothing and Label Correction. <i>Remote Sensing</i> , 2020, 12, 803.	4.0	25
210	A Multi-Level Attention Model for Remote Sensing Image Captions. <i>Remote Sensing</i> , 2020, 12, 939.	4.0	25
211	Spectral-Difference Low-Rank Representation Learning for Hyperspectral Anomaly Detection. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021, 59, 10364-10377.	6.3	25
212	A novel dynamic rough subspace based selective ensemble. <i>Pattern Recognition</i> , 2015, 48, 1638-1652.	8.1	24
213	Weighted multifeature hyperspectral image classification via kernel joint sparse representation. <i>Neurocomputing</i> , 2016, 178, 71-86.	5.9	24
214	Hyperspectral Anomaly Detection Based on Low-Rank Representation With Data-Driven Projection and Dictionary Construction. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2020, 13, 2226-2239.	4.9	24
215	Generative adversarial network-based electromagnetic signal classification: A semi-supervised learning framework. <i>China Communications</i> , 2020, 17, 157-169.	3.2	24
216	Class Incremental Learning With Few-Shots Based on Linear Programming for Hyperspectral Image Classification. <i>IEEE Transactions on Cybernetics</i> , 2022, 52, 5474-5485.	9.5	24

#	ARTICLE	IF	CITATIONS
217	Deep Learning in Visual Tracking: A Review. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 5497-5516.	11.3	24
218	Homoâ€“Heterogenous 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
219	Novel Super Resolution Restoration of Remote Sensing Images Based on Compressive Sensing and Example Patches-Aided Dictionary Learning. , 2011, , .		23
220	Band selection and evaluation with spatial information. International Journal of Remote Sensing, 2016, 37, 4501-4520.	2.9	23
221	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
222	Semi-Supervised PolSAR Image Classification Based on Self-Training and Superpixels. Remote Sensing, 2019, 11, 1933.	4.0	23
223	PSMD-Net: A Novel Pan-Sharpener Method Based on a Multiscale Dense Network. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 4957-4971.	6.3	23
224	A simplified low rank and sparse graph for semi-supervised learning. Neurocomputing, 2014, 140, 84-96.	5.9	22
225	Density shrinking algorithm for community detection with path based similarity. Physica A: Statistical Mechanics and Its Applications, 2015, 433, 218-228.	2.6	22
226	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
227	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
228	Rotation-Based Deep Forest for Hyperspectral Imagery Classification. IEEE Geoscience and Remote Sensing Letters, 2019, 16, 1105-1109.	3.1	22
229	PolSAR image classification based on multi-scale stacked sparse autoencoder. Neurocomputing, 2019, 351, 167-179.	5.9	22
230	Subspace learning for unsupervised feature selection via adaptive structure learning and rank approximation. Neurocomputing, 2020, 413, 72-84.	5.9	22
231	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
232	Multiobjective evolutionary algorithm assisted stacked autoencoder for PolSAR image classification. Swarm and Evolutionary Computation, 2021, 60, 100794.	8.1	22
233	A Lightweight Spectral-Spatial Convolution Module for Hyperspectral Image Classification. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	22
234	Local community detection based on higher-order structure and edge information. Physica A: Statistical Mechanics and Its Applications, 2022, 587, 126513.	2.6	22



#	ARTICLE	IF	CITATIONS
235	Adaptive Contourlet Fusion Clustering for SAR Image Change Detection. IEEE Transactions on Image Processing, 2022, 31, 2295-2308.	9.8	22
236	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
237	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
238	CRIM-FCHO: SAR Image Two-Stage Segmentation With Multifeature Ensemble. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 2400-2423.	6.3	21
239	Robust Semisupervised Classification for PolSAR Image With Noisy Labels. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 6440-6455.	6.3	21
240	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
241	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
242	Complex-Valued Convolutional Autoencoder and Spatial Pixel-Squares Refinement for Polarimetric SAR Image Classification. Remote Sensing, 2019, 11, 522.	4.0	21
243	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
244	Multiscale CNN With Autoencoder Regularization Joint Contextual Attention Network for SAR Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 1200-1213.	6.3	21
245	Semantic Attention and Scale Complementary Network for Instance Segmentation in Remote Sensing Images. IEEE Transactions on Cybernetics, 2022, 52, 10999-11013.	9.5	21
246	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
247	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
248	Denosing of low dose CT image with context-based BM3D. , 2016, , .		20
249	Single image super-resolution reconstruction based on genetic algorithm and regularization prior model. Information Sciences, 2016, 372, 196-207.	6.9	20
250	Global Low-Rank Image Restoration With Gaussian Mixture Model. IEEE Transactions on Cybernetics, 2018, 48, 1827-1838.	9.5	20
251	A thumbnail-based hierarchical fuzzy clustering algorithm for SAR image segmentation. Signal Processing, 2020, 171, 107518.	3.7	20
252	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



#	ARTICLE	IF	CITATIONS
253	Hyperspectral image classification based on spatial and spectral kernels generation network. Information Sciences, 2021, 578, 435-456.	6.9	20
254	Dual-graph convolutional network based on band attention and sparse constraint for hyperspectral band selection. Knowledge-Based Systems, 2021, 231, 107428.	7.1	20
255	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
256	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
257	Divide-and-Conquer Dual-Architecture Convolutional Neural Network for Classification of Hyperspectral Images. Remote Sensing, 2019, 11, 484.	4.0	19
258	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
259	Sparse Learning-Based Correlation Filter for Robust Tracking. IEEE Transactions on Image Processing, 2021, 30, 878-891.	9.8	19
260	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
261	IPGN: Interactiveness Proposal Graph Network for Human-Object Interaction Detection. IEEE Transactions on Image Processing, 2021, 30, 6583-6593.	9.8	19
262	AR <sup>2</sup> 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
263	Two-Stream Spatial-Temporal Graph Convolutional Networks for Driver Drowsiness Detection. IEEE Transactions on Cybernetics, 2022, 52, 13821-13833.	9.5	19
264	Supervised Edge Attention Network for Accurate Image Instance Segmentation. Lecture Notes in Computer Science, 2020, , 617-631.	1.3	19
265	Meta-Hashing for Remote Sensing Image Retrieval. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-19.	6.3	19
266	Distributed compressed sensing-based pan-sharpening with hybrid dictionary. Neurocomputing, 2015, 155, 320-333.	5.9	18
267	Adversarial Hash-Code Learning for Remote Sensing Image Retrieval. , 2019, , .		18
268	A Multi-Scale Progressive Collaborative Attention Network for Remote Sensing Fusion Classification. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 3897-3911.	11.3	18
269	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
270	Interactive Reference Region Based Multi-Objective Evolutionary Algorithm Through Decomposition. IEEE Access, 2016, 4, 7331-7346.	4.2	17

#	ARTICLE	IF	CITATIONS
271	Hyperspectral image classification based on filtering: a comparative study. <i>Journal of Applied Remote Sensing</i> , 2017, 11, 035007.	1.3	17
272	Target-Oriented High-Resolution SAR Image Formation via Semantic Information Guided Regularizations. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2018, 56, 1922-1939.	6.3	17
273	Semi-Supervised Tensorial Locally Linear Embedding for Feature Extraction Using PolSAR Data. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2018, 12, 1476-1490.	10.8	17
274	Better and Faster: Exponential Loss for Image Patch Matching. , 2019, , .		17
275	Spatial Attention for Multi-Scale Feature Refinement for Object Detection. , 2019, , .		17
276	Foreground Refinement Network for Rotated Object Detection in Remote Sensing Images. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-13.	6.3	17
277	Spatial feature-based convolutional neural network for PolSAR image classification. <i>Applied Soft Computing Journal</i> , 2022, 123, 108922.	7.2	17
278	Compressed sensing by collaborative reconstruction on overcomplete dictionary. <i>Signal Processing</i> , 2014, 103, 92-102.	3.7	16
279	Multilevel Distribution Coding Model-Based Dictionary Learning for PolSAR Image Classification. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2015, 8, 5262-5280.	4.9	16
280	Unsupervised feature selection based on kernel fisher discriminant analysis and regression learning. <i>Machine Learning</i> , 2019, 108, 659-686.	5.4	16
281	Accelerated Variance Reduction Stochastic ADMM for Large-Scale Machine Learning. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2021, 43, 4242-4255.	13.9	16
282	Hyperspectral imagery classification with cascaded support vector machines and multi-scale superpixel segmentation. <i>International Journal of Remote Sensing</i> , 2020, 41, 4530-4550.	2.9	16
283	Multi-Relation Attention Network for Image Patch Matching. <i>IEEE Transactions on Image Processing</i> , 2021, 30, 7127-7142.	9.8	16
284	Laplacian Feature Pyramid Network for Object Detection in VHR Optical Remote Sensing Images. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-14.	6.3	16
285	Ridgelet-Nets With Speckle Reduction Regularization for SAR Image Scene Classification. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021, 59, 9290-9306.	6.3	16
286	A Spatial-Channel Collaborative Attention Network for Enhancement of Multiresolution Classification. <i>Remote Sensing</i> , 2021, 13, 106.	4.0	16
287	Automatic Graph Learning Convolutional Networks for Hyperspectral Image Classification. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-16.	6.3	16
288	Fast Classification for Large Polarimetric SAR Data Based on Refined Spatial-Anchor Graph. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2017, 14, 1589-1593.	3.1	15

#	ARTICLE	IF	CITATIONS
289	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
290	Fast hyperspectral band selection based on spatial feature extraction. Journal of Real-Time Image Processing, 2018, 15, 555-564.	3.5	15
291	Variational Learning of Mixture Wishart Model for PolSAR Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 141-154.	6.3	15
292	A Superpixel-Based Relational Auto-Encoder for Feature Extraction of Hyperspectral Images. Remote Sensing, 2019, 11, 2454.	4.0	15
293	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
294	Sparse Manifold-Regularized Neural Networks for Polarimetric SAR Terrain Classification. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 3007-3016.	11.3	15
295	New Contour Cue-Based Hybrid Sparse Learning for Salient Object Detection. IEEE Transactions on Cybernetics, 2021, 51, 4212-4226.	9.5	15
296	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
297	Transfer stacking from low-to high-fidelity: A surrogate-assisted bi-fidelity evolutionary algorithm. Applied Soft Computing Journal, 2020, 92, 106276.	7.2	15
298	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
299	Adversarial Multi-Path Residual Network for Image Super-Resolution. IEEE Transactions on Image Processing, 2021, 30, 6648-6658.	9.8	15
300	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
301	Multiscale Representation Learning for Image Classification: A Survey. IEEE Transactions on Artificial Intelligence, 2023, 4, 23-43.	4.7	15
302	Classification and saliency detection by semi-supervised low-rank representation. Pattern Recognition, 2016, 51, 281-294.	8.1	14
303	How Can Despeckling and Structural Features Benefit to Change Detection on Bitemporal SAR Images?. Remote Sensing, 2019, 11, 421.	4.0	14
304	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
305	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
306	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

#	ARTICLE	IF	CITATIONS
307	Few-shot electromagnetic signal classification: A data union augmentation method. Chinese Journal of Aeronautics, 2022, 35, 49-57.	5.3	14
308	Remote Sensing Object Tracking With Deep Reinforcement Learning Under Occlusion. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	6.3	14
309	Adversarial Multiview Clustering Networks With Adaptive Fusion. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 7635-7647.	11.3	14
310	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
311	Polarimetric SAR images classification using deep belief networks with learning features. , 2015, , .		13
312	Non-overlapping classification of hyperspectral imagery with superpixel segmentation. Applied Soft Computing Journal, 2019, 83, 105630.	7.2	13
313	Gradient regularized convolutional neural networks for low-dose CT image enhancement. Physics in Medicine and Biology, 2019, 64, 165017.	3.0	13
314	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
315	Hyperspectral Imagery Classification Based on Compressed Convolutional Neural Network. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 1583-1587.	3.1	13
316	Scene Attention Mechanism for Remote Sensing Image Caption Generation. , 2020, , .		13
317	Recurrent Attention and Semantic Gate for Remote Sensing Image Captioning. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	6.3	13
318	Dual-Collaborative Fusion Model for Multispectral and Panchromatic Image Fusion. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	6.3	13
319	Sparse and low-dimensional representation with maximum entropy adaptive graph for feature selection. Neurocomputing, 2022, 485, 57-73.	5.9	13
320	Sparse Feature Clustering Network for Unsupervised SAR Image Change Detection. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	6.3	13
321	Change detection in synthetic aperture radar images based on evolutionary multiobjective optimization with ensemble learning. Memetic Computing, 2015, 7, 275-289.	4.0	12
322	An orthogonal predictive model-based dynamic multi-objective optimization algorithm. Soft Computing, 2015, 19, 3083-3107.	3.6	12
323	A Novel Deep Feature Fusion Network For Remote Sensing Scene Classification. , 2019, , .		12
324	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

#	ARTICLE	IF	CITATIONS
325	Unsupervised EA-Based Fuzzy Clustering for Image Segmentation. IEEE Access, 2020, 8, 8627-8647.	4.2	12
326	A Multiscale Self-Adaptive Attention Network for Remote Sensing Scene Classification. Remote Sensing, 2020, 12, 2209.	4.0	12
327	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
328	Polarimetric Multipath Convolutional Neural Network for PolSAR Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-18.	6.3	12
329	A Lightweight Keypoint-Based Oriented Object Detection of Remote Sensing Images. Remote Sensing, 2021, 13, 2459.	4.0	12
330	Cost-Sensitive Latent Space Learning for Imbalanced PolSAR Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 4802-4817.	6.3	12
331	Multi-Scale Fused SAR Image Registration Based on Deep Forest. Remote Sensing, 2021, 13, 2227.	4.0	12
332	A Multiscale Self-Attention Deep Clustering for Change Detection in SAR Images. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	6.3	12
333	Wavelet-Based Bayesian Image Estimation: From Marginal and Bivariate Prior Models to Multivariate Prior Models. IEEE Transactions on Image Processing, 2008, 17, 469-481.	9.8	11
334	Hierarchical Sparse Learning with Spectral-Spatial Information for Hyperspectral Imagery Denoising. Sensors, 2016, 16, 1718.	3.8	11
335	Quantum-inspired multi-objective optimization evolutionary algorithm based on decomposition. Soft Computing, 2016, 20, 3257-3272.	3.6	11
336	Mixed second order partial derivatives decomposition method for large scale optimization. Applied Soft Computing Journal, 2017, 61, 1013-1021.	7.2	11
337	Adaptive Hierarchical Multinomial Latent Model With Hybrid Kernel Function for SAR Image Semantic Segmentation. IEEE Transactions on Geoscience and Remote Sensing, 2018, , 1-19.	6.3	11
338	Semi-Supervised Complex-Valued GAN for Polarimetric SAR Image Classification. , 2019, , .		11
339	Multi-Scale Feature Fusion Network for Object Detection in VHR Optical Remote Sensing Images. , 2019, , .		11
340	Multi-Feature Weighted Sparse Graph for SAR Image Analysis. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 881-891.	6.3	11
341	Dynamic Immunization Node Model for Complex Networks Based on Community Structure and Threshold. IEEE Transactions on Cybernetics, 2022, 52, 1539-1552.	9.5	11
342	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

#	ARTICLE	IF	CITATIONS
343	Change Detection in SAR Images Using Multiobjective Optimization and Ensemble Strategy. IEEE Geoscience and Remote Sensing Letters, 2021, 18, 1585-1589.	3.1	11
344	Multi-label semantic feature fusion for remote sensing image captioning. ISPRS Journal of Photogrammetry and Remote Sensing, 2022, 184, 1-18.	11.1	11
345	Spatial Pooling Graph Convolutional Network for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	6.3	11
346	Contrastive Learning-Based Dual Dynamic GCN for SAR Image Scene Classification. IEEE Transactions on Neural Networks and Learning Systems, 2024, 35, 390-404.	11.3	11
347	Arithmetic coding for image compression with adaptive weight-context classification. Signal Processing: Image Communication, 2013, 28, 727-735.	3.2	10
348	Hyperspectral Image Classification Based on Nonlocal Means With a Novel Class-Relativity Measurement. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 1300-1304.	3.1	10
349	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
350	Context-Based Max-Margin for PolSAR Image Classification. IEEE Access, 2017, 5, 24070-24077.	4.2	10
351	Sparse Subspace Clustering-Based Feature Extraction for PolSAR Imagery Classification. Remote Sensing, 2018, 10, 391.	4.0	10
352	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
353	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
354	Adversarial Reconstruction-Classification Networks for PolSAR Image Classification. Remote Sensing, 2019, 11, 415.	4.0	10
355	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
356	Background Subtraction Based on GAN and Domain Adaptation for VHR Optical Remote Sensing Videos. IEEE Access, 2020, 8, 119144-119157.	4.2	10
357	Simple and Effective: Spatial Rescaling for Person Reidentification. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 145-156.	11.3	10
358	Sketch-Based Region Adaptive Sparse Unmixing Applied to Hyperspectral Image. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 8840-8856.	6.3	10
359	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
360	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

#	ARTICLE	IF	CITATIONS
361	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
362	Graph Convolutional Neural Networks with Geometric and Discrimination information. Engineering Applications of Artificial Intelligence, 2021, 104, 104364.	8.1	10
363	Contralaterally Enhanced Networks for Thoracic Disease Detection. IEEE Transactions on Medical Imaging, 2021, 40, 2428-2438.	8.9	10
364	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
365	The immune quantum-inspired evolutionary algorithm. , 0, , .		9
366	A linear ridgelet network. Neurocomputing, 2009, 73, 468-477.	5.9	9
367	Terrain classification with Polarimetric SAR based on Deep Sparse Filtering Network. , 2016, , .		9
368	Immune clonal selection algorithm for capacitated arc routing problem. Soft Computing, 2016, 20, 2177-2204.	3.6	9
369	A Pareto-Based Sparse Subspace Learning Framework. IEEE Transactions on Cybernetics, 2019, 49, 3859-3872.	9.5	9
370	Weight-Variable Scattering Convolution Networks and Its Application in Electromagnetic Signal Classification. IEEE Access, 2019, 7, 175889-175896.	4.2	9
371	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
372	Semisupervised Classification of PolSAR Image Incorporating Labelsâ€™ Semantic Priors. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 1737-1741.	3.1	9
373	Semantic Segmentation for SAR Image Based on Texture Complexity Analysis and Key Superpixels. Remote Sensing, 2020, 12, 2141.	4.0	9
374	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
375	Fuzzy Superpixels Based Semi-Supervised Similarity-Constrained CNN for PolSAR Image Classification. Remote Sensing, 2020, 12, 1694.	4.0	9
376	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
377	Lightweight convolutional neural network for bitemporal SAR image change detection. Journal of Applied Remote Sensing, 2020, 14, 1.	1.3	9
378	Multiscale Curvelet Scattering Network. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 3665-3679.	11.3	9



#	ARTICLE	IF	CITATIONS
379	SAR Image Change Detection Method via a Pyramid Pooling Convolutional Neural Network. , 2020, , .		9
380	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
381	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
382	A Dual Multi-Head Contextual Attention Network for Hyperspectral Image Classification. Remote Sensing, 2022, 14, 3091.	4.0	9
383	Locality-constraint discriminant feature learning for high-resolution SAR image classification. Neurocomputing, 2016, 207, 772-784.	5.9	8
384	Local graph regularized sparse reconstruction for salient object detection. Neurocomputing, 2016, 194, 348-359.	5.9	8
385	Nonnegative Matrix Factorization with Rank Regularization and Hard Constraint. Neural Computation, 2017, 29, 2553-2579.	2.2	8
386	A Novel Image Representation Framework Based on Gaussian Model and Evolutionary Optimization. IEEE Transactions on Evolutionary Computation, 2017, 21, 265-280.	10.0	8
387	Adaptive sparse graph learning based dimensionality reduction for classification. Applied Soft Computing Journal, 2019, 82, 105459.	7.2	8
388	Sar Image Change Detection Based on Mean Shift Pre-Classification and Fuzzy C-Means. , 2019, , .		8
389	Unsupervised classification for polarimetric SAR images based on the improved CFSFDP algorithm. International Journal of Remote Sensing, 2019, 40, 3154-3178.	2.9	8
390	Multi-layer interaction preference based multi-objective evolutionary algorithm through decomposition. Information Sciences, 2020, 509, 420-436.	6.9	8
391	Quantum-Inspired Evolutionary Algorithm for Convolutional Neural Networks Architecture Search. , 2020, , .		8
392	SSCV-GANs: Semi-Supervised Complex-Valued GANs for PolSAR Image Classification. IEEE Access, 2020, 8, 146560-146576.	4.2	8
393	Non-Invasive Heart Rate Estimation From Ballistocardiograms Using Bidirectional LSTM Regression. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 3396-3407.	6.3	8
394	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
395	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
396	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

#	ARTICLE	IF	CITATIONS
397	How Does the Low-Rank Matrix Decomposition Help Internal and External Learnings for Super-Resolution. IEEE Transactions on Image Processing, 2018, 27, 1086-1099.	9.8	7
398	Color Correction and Depth-Based Hierarchical Hole Filling in Free Viewpoint Generation. IEEE Transactions on Broadcasting, 2019, 65, 294-307.	3.2	7
399	End-to-End Ensemble Learning by Exploiting the Correlation Between Individuals and Weights. IEEE Transactions on Cybernetics, 2021, 51, 2835-2846.	9.5	7
400	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
401	Large-Scope PolSAR Image Change Detection Based on Looking-Around-and-Into Mode. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 363-378.	6.3	7
402	Sparsity-Regularized Attention Multiple-Instance Network for Hyperspectral Target Detection. IEEE Transactions on Cybernetics, 2023, 53, 124-137.	9.5	7
403	Parallel design of sparse deep belief network with multi-objective optimization. Information Sciences, 2020, 533, 24-42.	6.9	7
404	Multiobjective Guided Divide-and-Conquer Network for Hyperspectral Pansharpening. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-17.	6.3	7
405	Parameter selection of Touzi decomposition and a distribution improved autoencoder for PolSAR image classification. ISPRS Journal of Photogrammetry and Remote Sensing, 2022, 186, 246-266.	11.1	7
406	Very Low-Resolution Moving Vehicle Detection in Satellite Videos. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-17.	6.3	7
407	MsmcNet: A Modular Few-Shot Learning Framework for Signal Modulation Classification. IEEE Transactions on Signal Processing, 2022, 70, 3789-3801.	5.3	7
408	Adaptive Genetic Algorithm Based Approach for Evolutionary Design and Multi-objective Optimization of Logic Circuits. , 0, , .		6
409	A multiobjective immune clustering ensemble technique applied to unsupervised SAR image segmentation. , 2010, , .		6
410	Parallel unsupervised Synthetic Aperture Radar image change detection on a graphics processing unit. International Journal of High Performance Computing Applications, 2013, 27, 109-122.	3.7	6
411	Change detection in synthetic aperture radar images based on log-mean operator and stacked auto-encoder. , 2017, , .		6
412	Hybrid Probabilistic Sparse Coding With Spatial Neighbor Tensor for Hyperspectral Imagery Classification. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 2491-2502.	6.3	6
413	Non-overlapping classification of hyperspectral imagery based on set-to-sets distance. Neurocomputing, 2020, 378, 422-434.	5.9	6
414	SAR Image Speckle Reduction based on a Generative Adversarial Network. , 2020, , .		6

#	ARTICLE	IF	CITATIONS
415	Application of Data Driven Optimization for Change Detection in Synthetic Aperture Radar Images. IEEE Access, 2020, 8, 11426-11436.	4.2	6
416	Element-Wise Feature Relation Learning Network for Cross-Spectral Image Patch Matching. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 3372-3386.	11.3	6
417	Analytical Study on a 700 V Triple RESURF LDMOS With a Variable High- $\kappa$ Dielectric Trench. IEEE Transactions on Electron Devices, 2021, 68, 2872-2878.	3.0	6
418	Sparse Nonnegative Matrix Factorization for Hyperspectral Unmixing Based on Endmember Independence and Spatial Weighted Abundance. Remote Sensing, 2021, 13, 2348.	4.0	6
419	A Multi-Scale Spatial Attention Region Proposal Network for High-Resolution Optical Remote Sensing Imagery. Remote Sensing, 2021, 13, 3362.	4.0	6
420	Accelerated Incremental Gradient Descent using Momentum Acceleration with Scaling Factor. , 2019, , .		6
421	A Lightweight Convolutional Neural Network for Bitemporal Image Change Detection. , 2020, , .		6
422	Remote Sensing Scene Classification Based on Global and Local Consistent Network. , 2020, , .		6
423	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
424	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
425	A Collaborative Learning Tracking Network for Remote Sensing Videos. IEEE Transactions on Cybernetics, 2023, 53, 1954-1967.	9.5	6
426	SAR image segmentation based on Gabor filters of adaptive window in overcomplete brushlet domain. , 2009, , .		5
427	signADAM++: Learning Confidences for Deep Neural Networks. , 2019, , .		5
428	Remote Sensing Image Retrieval Based on Semi-Supervised Deep Hashing Learning. , 2019, , .		5
429	A dynamic local cluster ratio-based band selection algorithm for hyperspectral images. Soft Computing, 2019, 23, 8281-8289.	3.6	5
430	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
431	Cross-Spectral Image Patch Matching by Learning Features of the Spatially Connected Patches in a Shared Space. Lecture Notes in Computer Science, 2019, , 115-130.	1.3	5
432	Weighted Wishart distance learning for PolSAR image classification. International Journal of Remote Sensing, 2017, 38, 5232-5250.	2.9	5

#	ARTICLE	IF	CITATIONS
433	Dynamic Graph-Level Neural Network for SAR Image Change Detection. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	5
434	A new approach for constructing match wavelet to signal detection. , 0, , .		4
435	A new directional multi-resolution ridgelet network. Frontiers of Electrical and Electronic Engineering in China: Selected Publications From Chinese Universities, 2008, 3, 198-203.	0.6	4
436	Adaptive-distributed arithmetic coding for lossless compression. , 2010, , .		4
437	An external learning assisted self-examples learning for image super-resolution. Neurocomputing, 2018, 312, 107-119.	5.9	4
438	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
439	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
440	Accuracy and Long-Term Tracking via Overlap Maximization Integrated with Motion Continuity. , 2019, , .		4
441	Products of Generalized Stochastic Matrices With Applications to Consensus Analysis in Networks of Multiagents With Delays. IEEE Transactions on Cybernetics, 2020, 50, 386-399.	9.5	4
442	A Unified Scalable Equivalent Formulation for Schatten Quasi-Norms. Mathematics, 2020, 8, 1325.	2.2	4
443	Nonlinear Projective Dictionary Pair Learning for PolSAR Image Classification. IEEE Access, 2021, 9, 70650-70661.	4.2	4
444	Representative Learning via Span-Based Mutual Information for PolSAR Image Classification. Remote Sensing, 2021, 13, 1609.	4.0	4
445	High-Resolution Remote Sensing Images Change Detection with Siamese Holistically-Guided FCN. , 2021, , .		4
446	A Dual Residual Network with Channel Attention for Image Restoration. Lecture Notes in Computer Science, 2020, , 352-363.	1.3	4
447	Adaptive Fuzzy Learning Superpixel Representation for PolSAR Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-18.	6.3	4
448	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
449	A fuzzy CLOPE algorithm and its optimal parameter choice. Journal of Electronics, 2006, 23, 384-388.	0.2	3
450	Multitask Learning and Sparse Representation Based Super-Resolution Reconstruction of Synthetic Aperture Radar Images. , 2011, , .		3

#	ARTICLE	IF	CITATIONS
451	Adaptive unsupervised classification of polarimetric SAR images using the improved affinity propagation clustering algorithm. <i>International Journal of Remote Sensing</i> , 2016, 37, 6023-6040.	2.9	3
452	PolSAR image compression based on online sparse K-SVD dictionary learning. <i>Multimedia Tools and Applications</i> , 2017, 76, 24859-24870.	3.9	3
453	Auto Encoder Feature Learning with Utilization of Local Spatial Information and Data Distribution for Classification of PolSAR Image. <i>Remote Sensing</i> , 2019, 11, 1313.	4.0	3
454	A Surrogate Model Assisted Quantum-inspired Evolutionary Algorithm for Hyperparameter Optimization in Machine Learning. , 2019, , .		3
455	A Novel Spatial and Temporal Context-Aware Approach for Drone-Based Video Object Detection. , 2019, , .		3
456	Semi-Coupled Convolutional Sparse Learning for Image Super-Resolution. <i>Remote Sensing</i> , 2019, 11, 2593.	4.0	3
457	Hyperspectral Image Classification via Slice Sparse Coding Tensor Based Classifier With Compressive Dimensionality Reduction. <i>IEEE Access</i> , 2020, 8, 145207-145215.	4.2	3
458	Achieving Reliable Intervehicle Positioning Based on Redheffer Weighted Least Squares Model Under Multi-GNSS Outages. <i>IEEE Transactions on Cybernetics</i> , 2023, 53, 1039-1050.	9.5	3
459	Nonoverlapped Sampling for Hyperspectral Imagery: Performance Evaluation and a Cotraining-Based Classification Strategy. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-14.	6.3	3
460	A Deep Learning Filter for Visual Drone Single Object Tracking. <i>Lecture Notes in Computer Science</i> , 2020, , 638-650.	1.3	3
461	RDLNet: A Regularized Descriptor Learning Network. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2021, PP, 1-13.	11.3	3
462	Deep Adaptive Proposal Network in Optical Remote Sensing Images Objective Detection. , 2020, , .		3
463	Dual Modality Collaborative Learning for Cross-Source Remote Sensing Retrieval. <i>Remote Sensing</i> , 2022, 14, 1319.	4.0	3
464	Fast and Effective: A Novel Sequential Single-Path Search for Mixed-Precision-Quantized Networks. <i>IEEE Transactions on Cybernetics</i> , 2023, 53, 6187-6199.	9.5	3
465	RCNN-GAN: An Enhanced Deep Learning Approach Towards Detection of Road Cracks. , 2022, , .		3
466	Self-Supervised Self-Organizing Clustering Network: A Novel Unsupervised Representation Learning Method. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2024, 35, 1857-1871.	11.3	3
467	Unsupervised Image Segmentation Based on the Anisotropic Texture Information. , 0, , .		2
468	Texture Classification Via Stationary-Wavelet Based Contourlet Transform. <i>Lecture Notes in Computer Science</i> , 2006, , 485-494.	1.3	2

#	ARTICLE	IF	CITATIONS
469	Multiscale bandelet image compression. , 2007, , .		2
470	Cooperative Synthetic Aperture Radar Image Segmentation Using Learning Sparse Representation Based Clustering Scheme. , 2011, , .		2
471	Parallel implementations of frame rate up-conversion algorithm using OpenCL on heterogeneous computing devices. Multimedia Tools and Applications, 2019, 78, 9311-9334.	3.9	2
472	A Novel Deep Framework for Change Detection of Multi-source Heterogeneous Images. , 2019, , .		2
473	Vehicle Detection and Tracking in Remote Sensing Satellite Vidio based on Dynamic Association. , 2019, , .		2
474	Object Detection and Trcacking Based on Convolutional Neural Networks for High-Resolution Optical Remote Sensing Video. , 2019, , .		2
475	Deep tracking using double-correlation filters by membership weighted decision. Pattern Recognition Letters, 2020, 136, 161-167.	4.2	2
476	Regularized Sparse Band Selection via Learned Pairwise Agreement. IEEE Access, 2020, 8, 40096-40105.	4.2	2
477	Background Representation Learning With Structural Constraint for Hyperspectral Anomaly Detection. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	2
478	SAR Image Registration Based on ROEWA-Blocks and Multiscale Circle Descriptor. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 10614-10627.	4.9	2
479	Sar Image Change Detection via a Few-Shot Learning-Based Neural Network. , 2021, , .		2
480	Reconstruction Error-Based Decomposition Feature Selection for PolSAR Image. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-19.	6.3	2
481	Supervised Adaptive-RPN Network for Object Detection in Remote Sensing Images. , 2020, , .		2
482	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
483	Adaptive parameter selection for Tikhonov regularization in Bioluminescence tomography. , 2010, , .		1
484	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
485	A novel location-based DNA matching algorithm for hyperspectral image classification. Memetic Computing, 2019, 11, 175-191.	4.0	1
486	Optimization based on nonlinear transformation in decision space. Soft Computing, 2019, 23, 3571-3590.	3.6	1

#	ARTICLE	IF	CITATIONS
487	Multi-Resolution Prediction Model Based on Community Relevance for Missing Links Prediction. IEEE Access, 2020, 8, 113981-113993.	4.2	1
488	A Two-Stage Evolutionary Fuzzy Clustering Framework for Noisy Image Segmentation. IEEE Access, 2020, 8, 186663-186678.	4.2	1
489	Evolutionary computation-based multiobjective capacitated arc routing optimizations. , 2020, , 233-300.		1
490	Hyperspectral Image Super-Resolution Based on Tensor Spatial-Spectral Joint Correlation Regularization. IEEE Access, 2020, 8, 63654-63665.	4.2	1
491	A survey on image and video cosegmentation: Methods, challenges and analyses. Pattern Recognition, 2020, 103, 107297.	8.1	1
492	Deep Feature-Based Multitask Joint Sparse Representation for Hyperspectral Image Classification. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 1578-1582.	3.1	1
493	Structure Label Matrix Completion for PolSAR Image Classification. Remote Sensing, 2020, 12, 459.	4.0	1
494	Learning Social Spatio-Temporal Relation Graph in the Wild and a Video Benchmark. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 2951-2964.	11.3	1
495	Deep Mutual-Teaching for Hyperspectral Imagery Classification. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	1
496	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
497	A deep fusion framework for unlabeled data-driven tumor recognition. Pattern Recognition, 2021, 119, 108066.	8.1	1
498	Graph-Level Neural Network for SAR Image Change Detection. , 2021, , .		1
499	Multi-label Aerial Image Classification via Adjacency-Based Label and Feature Co-embedding. Lecture Notes in Computer Science, 2021, , 384-395.	1.3	1
500	Hyperspectral Image Classification Via Multi-Scale Encoder-Decoder Network. , 2020, , .		1
501	Application of a Hyper-Parameter Optimization Algorithm using Mars Surrogate for Deep Polsar Image Classification Models. , 2020, , .		1
502	Remote Sensing Images Feature Learning based On Multi-Branch Networks. , 2020, , .		1
503	Feature Correlation Analysis of Two-Branch Convolutional Networks for Multi-Source Image Classification. , 2020, , .		1
504	A ridgelet kernel approach for regression using particle swarm optimization algorithm. , 0, , .		0



#	ARTICLE	IF	CITATIONS
505	Image fusion using a NSDFB-based contourlet packet. , 2007, , .		0
506	Feature Waveform Extraction Based on Shape- and Position-Adapted Nonparametric Waveform Atoms. , 2009, , .		0
507	Semi-Supervised Pyramid Feature Co-Training Network for Lidar Data Classification. , 2019, , .		0
508	High-quality depth up-sampling via a supervised classification guided MRF model. Pattern Recognition Letters, 2020, 138, 315-320.	4.2	0
509	Stochastic Recursive Gradient Support Pursuit and Its Sparse Representation Applications. Sensors, 2020, 20, 4902.	3.8	0
510	Complex network structure extraction based on community relevance. International Journal of Modern Physics C, 2020, 31, 2050062.	1.7	0
511	A Learnable Blur Kernel for Remote Sensing Image Retrieval. , 2020, , .		0
512	Hyperspectral Image Classification Based on Multiscale Spatial and Spectral Feature Network. , 2020, , .		0
513	A Deep Generalized Correlation Network for Bitemporal Image Change Detection. , 2020, , .		0
514	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
515	PolSAR Scene Classification via Low-Rank Constrained Multimodal Tensor Representation. Remote Sensing, 2022, 14, 3117.	4.0	0