

# Liangpei Zhang

## List of Publications by Year in descending order

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426  
papers

40,682  
citations

1614

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3579

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426  
docs citations

426  
times ranked

17648  
citing authors

#	ARTICLE	IF	CITATIONS
1	ESNet: An End-to-End Superpixel-Enhanced Change Detection Network for Very-High-Resolution Remote Sensing Images. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 28-42.	11.3	36
2	An Accurate UAV 3-D Path Planning Method for Disaster Emergency Response Based on an Improved Multiobjective Swarm Intelligence Algorithm. IEEE Transactions on Cybernetics, 2023, 53, 2658-2671.	9.5	29
3	Multiobjective Sine Cosine Algorithm for Remote Sensing Image Spatial-Spectral Clustering. IEEE Transactions on Cybernetics, 2022, 52, 11172-11186.	9.5	10
4	Auto-AD: Autonomous Hyperspectral Anomaly Detection Network Based on Fully Convolutional Autoencoder. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	6.3	61
5	A Fast and Effective Irregular Stripe Removal Method for Moon Mineralogy Mapper (M <sup>3</sup> ). IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-19.	6.3	5
6	A Self-Supervised Denoising Network for Satellite-Airborne-Ground Hyperspectral Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	6.3	12
7	A Deeply Supervised Attention Metric-Based Network and an Open Aerial Image Dataset for Remote Sensing Change Detection. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	6.3	135
8	Three-Dimensional Change Detection in Urban Areas Based on Complementary Evidence Fusion. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	6.3	2
9	Local Spatial Constraint and Total Variation for Hyperspectral Anomaly Detection. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	6.3	21
10	Attention-Based Multiscale Residual Adaptation Network for Cross-Scene Classification. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	6.3	16
11	Land-Use/Land-Cover Change Detection Based on Class-Prior Object-Oriented Conditional Random Field Framework for High Spatial Resolution Remote Sensing Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	6.3	22
12	SPNet: Spectral Patching End-to-End Classification Network for UAV-Borne Hyperspectral Imagery With High Spatial and Spectral Resolutions. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-17.	6.3	19
13	Satellite Video Super-Resolution via Multiscale Deformable Convolution Alignment and Temporal Grouping Projection. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-19.	6.3	55
14	A Locally Weighted Neural Network Constrained by Global Training for Remote Sensing Estimation of PM <sub>2.5</sub> . IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	6.3	9
15	A Spectral-Spatial-Dependent Global Learning Framework for Insufficient and Imbalanced Hyperspectral Image Classification. IEEE Transactions on Cybernetics, 2022, 52, 11709-11723.	9.5	69
16	Joint Total Variation With Nonnegative Constrained Least Square for Sea Ice Concentration Estimation in Low Concentration Areas of Antarctica. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	0
17	MAP-Net: SAR and Optical Image Matching via Image-Based Convolutional Network With Attention Mechanism and Spatial Pyramid Aggregated Pooling. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	6.3	24
18	Super-Resolution-Based Change Detection Network With Stacked Attention Module for Images With Different Resolutions. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-18.	6.3	53

#	ARTICLE	IF	CITATIONS
19	Spatiotemporal estimation of hourly 2-km ground-level ozone over China based on Himawari-8 using a self-adaptive geospatially local model. <i>Geoscience Frontiers</i> , 2022, 13, 101286.	8.4	26
20	Fully Contextual Network for Hyperspectral Scene Parsing. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-16.	6.3	17
21	Unsupervised Change Detection in Multitemporal VHR Images Based on Deep Kernel PCA Convolutional Mapping Network. <i>IEEE Transactions on Cybernetics</i> , 2022, 52, 12084-12098.	9.5	58
22	Double Low-Rank Matrix Decomposition for Hyperspectral Image Denoising and Destriping. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-19.	6.3	22
23	Spectral Response Function-Guided Deep Optimization-Driven Network for Spectral Super-Resolution. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2022, 33, 4213-4227.	11.3	40
24	A Dual-UNet With Multistage Details Injection for Hyperspectral Image Fusion. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-13.	6.3	15
25	Asymmetric Weighted Logistic Metric Learning for Hyperspectral Target Detection. <i>IEEE Transactions on Cybernetics</i> , 2022, 52, 11093-11106.	9.5	25
26	Asymmetric Siamese Networks for Semantic Change Detection in Aerial Images. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-18.	6.3	39
27	Object Detection in Aerial Images: A Large-Scale Benchmark and Challenges. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2022, 44, 7778-7796.	13.9	148
28	Oil Spill Contextual and Boundary-Supervised Detection Network Based on Marine SAR Images. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-10.	6.3	21
29	Deep-Learning-Based Super-Resolution of Video Satellite Imagery by the Coupling of Multiframe and Single-Frame Models. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-14.	6.3	4
30	A Local-Global Dual-Stream Network for Building Extraction From Very-High-Resolution Remote Sensing Images. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2022, 33, 1269-1283.	11.3	36
31	ChangeMask: Deep multi-task encoder-transformer-decoder architecture for semantic change detection. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2022, 183, 228-239.	11.1	65
32	S3ANet: Spectral-spatial-scale attention network for end-to-end precise crop classification based on UAV-borne H2 imagery. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2022, 183, 147-163.	11.1	21
33	A coarse-to-fine boundary refinement network for building footprint extraction from remote sensing imagery. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2022, 183, 240-252.	11.1	61
34	Coupling Dual Graph Convolution Network and Residual Network for Local Climate Zone Mapping. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2022, 15, 1221-1234.	4.9	6
35	A Joint Spectral Unmixing and Subpixel Mapping Framework Based on Multiobjective Optimization. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-17.	6.3	7
36	Unsupervised Deep Hyperspectral Video Target Tracking and High Spectral-Spatial-Temporal Resolution (H <sup>3</sup> ) Benchmark Dataset. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-14.	6.3	15

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37	Multivehicle Object Tracking in Satellite Video Enhanced by Slow Features and Motion Features. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-26.	6.3	9
38	Seamless and automated rapeseed mapping for large cloudy regions using time-series optical satellite imagery. ISPRS Journal of Photogrammetry and Remote Sensing, 2022, 184, 45-62.	11.1	22
39	Land-Use/Land-Cover change detection based on a Siamese global learning framework for high spatial resolution remote sensing imagery. ISPRS Journal of Photogrammetry and Remote Sensing, 2022, 184, 63-78.	11.1	113
40	Generating 2m fine-scale urban tree cover product over 34 metropolises in China based on deep context-aware sub-pixel mapping network. International Journal of Applied Earth Observation and Geoinformation, 2022, 106, 102667.	2.8	23
41	Weighted Feature Fusion of Convolutional Neural Network and Graph Attention Network for Hyperspectral Image Classification. IEEE Transactions on Image Processing, 2022, 31, 1559-1572.	9.8	150
42	Unsupervised Spectral-Spatial Semantic Feature Learning for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	6.3	16
43	SCViT: A Spatial-Channel Feature Preserving Vision Transformer for Remote Sensing Image Scene Classification. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-12.	6.3	61
44	EMS-GCN: An End-to-End Mixhop Superpixel-Based Graph Convolutional Network for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	6.3	19
45	A Supervised Progressive Growing Generative Adversarial Network for Remote Sensing Image Scene Classification. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-18.	6.3	13
46	Space-time super-resolution for satellite video: A joint framework based on multi-scale spatial-temporal transformer. International Journal of Applied Earth Observation and Geoinformation, 2022, 108, 102731.	2.8	37
47	Knowledge-guided land pattern depiction for urban land use mapping: A case study of Chinese cities. Remote Sensing of Environment, 2022, 272, 112916.	11.0	39
48	Mapping the distribution of invasive tree species using deep one-class classification in the tropical montane landscape of Kenya. ISPRS Journal of Photogrammetry and Remote Sensing, 2022, 187, 328-344.	11.1	25
49	Generating continuous fine-scale land cover mapping by edge-guided maximum a posteriori based spatiotemporal sub-pixel mapping. Science of Remote Sensing, 2022, 5, 100041.	4.8	1
50	Spatiotemporal estimation of 6-hour high-resolution precipitation across China based on Himawari-8 using a stacking ensemble machine learning model. Journal of Hydrology, 2022, 609, 127718.	5.4	10
51	Cascaded Multi-Task Road Extraction Network for Road Surface, Centerline, and Edge Extraction. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	6.3	18
52	Hyperspectral Anomaly Detection Based on Machine Learning: An Overview. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 3351-3364.	4.9	31
53	Artificial Intelligence for Remote Sensing Data Analysis: A review of challenges and opportunities. IEEE Geoscience and Remote Sensing Magazine, 2022, 10, 270-294.	9.6	140
54	Deep Low-Rank Prior for Hyperspectral Anomaly Detection. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-17.	6.3	14

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55	Cloud and cloud shadow detection for optical satellite imagery: Features, algorithms, validation, and prospects. ISPRS Journal of Photogrammetry and Remote Sensing, 2022, 188, 89-108.	11.1	39
56	Remote Sensing Image Spatiotemporal Fusion via a Generative Adversarial Network With One Prior Image Pair. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-17.	6.3	4
57	Cross-sensor domain adaptation for high spatial resolution urban land-cover mapping: From airborne to spaceborne imagery. Remote Sensing of Environment, 2022, 277, 113058.	11.0	41
58	Spatial "Spectral Joint Reconstruction With Interband Correlation for Hyperspectral Anomaly Detection. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	6.3	5
59	Density Map-based vehicle counting in remote sensing images with limited resolution. ISPRS Journal of Photogrammetry and Remote Sensing, 2022, 189, 201-217.	11.1	9
60	A Knowledge Optimization-Driven Network With Normalizer-Free Group ResNet Prior for Remote Sensing Image Pan-Sharpener. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	6.3	1
61	Coupling Model- and Data-Driven Methods for Remote Sensing Image Restoration and Fusion: Improving physical interpretability. IEEE Geoscience and Remote Sensing Magazine, 2022, 10, 231-249.	9.6	15
62	Assessing the Threat of Adversarial Examples on Deep Neural Networks for Remote Sensing Scene Classification: Attacks and Defenses. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 1604-1617.	6.3	75
63	Superpixel-Based Reweighted Low-Rank and Total Variation Sparse Unmixing for Hyperspectral Remote Sensing Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 629-647.	6.3	72
64	RSNet: The Search for Remote Sensing Deep Neural Networks in Recognition Tasks. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 2520-2534.	6.3	73
65	Learning Regional Attraction for Line Segment Detection. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 1998-2013.	13.9	17
66	Correction to "Scene-Driven Multitask Parallel Attention Network for Building Extraction in High-Resolution Remote Sensing Images" [May 21 doi: 10.1109/TGRS.2020.3014312]. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 5387-5387.	6.3	1
67	Nonlocal Means Regularized Sketched Reweighted Sparse and Low-Rank Subspace Clustering for Large Hyperspectral Images. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 4164-4178.	6.3	20
68	Autonomous Endmember Detection via an Abundance Anomaly Guided Saliency Prior for Hyperspectral Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 2336-2351.	6.3	6
69	Hyperspectral Endmember Extraction by ( $\frac{1}{4} + \hat{\nu}$ ) Multiobjective Differential Evolution Algorithm Based on Ranking Multiple Mutations. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 2352-2364.	6.3	7
70	SceneNet: Remote sensing scene classification deep learning network using multi-objective neural evolution architecture search. ISPRS Journal of Photogrammetry and Remote Sensing, 2021, 172, 171-188.	11.1	87
71	Estimate hourly PM2.5 concentrations from Himawari-8 TOA reflectance directly using geo-intelligent long short-term memory network. Environmental Pollution, 2021, 271, 116327.	7.5	36
72	Few-Shot Hyperspectral Image Classification With Unknown Classes Using Multitask Deep Learning. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 5085-5102.	6.3	150

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73	Scene-Driven Multitask Parallel Attention Network for Building Extraction in High-Resolution Remote Sensing Images. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 4287-4306.	6.3	94
74	On Creating Benchmark Dataset for Aerial Image Interpretation: Reviews, Guidances, and Million-AID. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 4205-4230.	4.9	71
75	Hyperspectral Anomaly Change Detection Based on Autoencoder. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 3750-3762.	4.9	35
76	Advances in spaceborne hyperspectral remote sensing in China. Geo-Spatial Information Science, 2021, 24, 95-120.	5.3	49
77	A Superpixel Guided Sample Selection Neural Network for Handling Noisy Labels in Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 9486-9503.	6.3	7
78	Scale-Robust Deep-Supervision Network for Mapping Building Footprints From High-Resolution Remote Sensing Images. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 10091-10100.	4.9	14
79	Hyperspectral Image Denoising Using a 3-D Attention Denoising Network. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 10348-10363.	6.3	116
80	Generating Comparable and Fine-Scale Time Series of Summer Land Surface Temperature for Thermal Environment Monitoring. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 2136-2147.	4.9	12
81	Physics-Based GAN With Iterative Refinement Unit for Hyperspectral and Multispectral Image Fusion. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 6827-6841.	4.9	16
82	Spatial domain bridge transfer : An automated paddy rice mapping method with no training data required and decreased image inputs for the large cloudy area. Computers and Electronics in Agriculture, 2021, 181, 105978.	7.7	18
83	Single-Spectrum-Driven Binary-Class Sparse Representation Target Detector for Hyperspectral Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 1487-1500.	6.3	13
84	Adaptive Spectral-Spatial Multiscale Contextual Feature Extraction for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 2461-2477.	6.3	72
85	An automated early-season method to map winter wheat using time-series Sentinel-2 data: A case study of Shandong, China. Computers and Electronics in Agriculture, 2021, 182, 105962.	7.7	26
86	Generating seamless global daily AMSR2 soil moisture (SGD-SM) long-term products for the years 2013-2019. Earth System Science Data, 2021, 13, 1385-1401.	9.9	42
87	Deep multisensor learning for missing-modality all-weather mapping. ISPRS Journal of Photogrammetry and Remote Sensing, 2021, 174, 254-264.	11.1	30
88	Remote Sensing Image Spatiotemporal Fusion Using a Generative Adversarial Network. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 4273-4286.	6.3	70
89	Estimating daily full-coverage near surface O3, CO, and NO2 concentrations at a high spatial resolution over China based on S5P-TROPOMI and GEOS-FP. ISPRS Journal of Photogrammetry and Remote Sensing, 2021, 175, 311-325.	11.1	57
90	GAMNet: Globally aware road detection network with multi-scale residual learning. ISPRS Journal of Photogrammetry and Remote Sensing, 2021, 175, 340-352.	11.1	38

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91	A Global Context-aware and Batch-independent Network for road extraction from VHR satellite imagery. ISPRS Journal of Photogrammetry and Remote Sensing, 2021, 175, 353-365.	11.1	115
92	Interpretable Hyperspectral Artificial Intelligence: When nonconvex modeling meets hyperspectral remote sensing. IEEE Geoscience and Remote Sensing Magazine, 2021, 9, 52-87.	9.6	157
93	Combined deep prior with low-rank tensor SVD for thick cloud removal in multitemporal images. ISPRS Journal of Photogrammetry and Remote Sensing, 2021, 177, 161-173.	11.1	50
94	Two-Stream Convolutional Networks for Hyperspectral Target Detection. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 6907-6921.	6.3	47
95	NESZ Estimation and Calibration for Gaofen-3 Polarimetric Products by the Minimum Noise Envelope Estimator. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 7517-7534.	6.3	7
96	Multi-temporal cloud detection based on robust PCA for optical remote sensing imagery. Computers and Electronics in Agriculture, 2021, 188, 106342.	7.7	8
97	Deep building footprint update network: A semi-supervised method for updating existing building footprint from bi-temporal remote sensing images. Remote Sensing of Environment, 2021, 264, 112589.	11.0	101
98	Long time-series NDVI reconstruction in cloud-prone regions via spatio-temporal tensor completion. Remote Sensing of Environment, 2021, 264, 112632.	11.0	60
99	Building damage assessment for rapid disaster response with a deep object-based semantic change detection framework: From natural disasters to man-made disasters. Remote Sensing of Environment, 2021, 265, 112636.	11.0	110
100	Full-coverage spatiotemporal mapping of ambient PM2.5 and PM10 over China from Sentinel-5P and assimilated datasets: Considering the precursors and chemical compositions. Science of the Total Environment, 2021, 793, 148535.	8.0	23
101	An investigation of traffic density changes inside Wuhan during the COVID-19 epidemic with GF-2 time-series images. International Journal of Applied Earth Observation and Geoinformation, 2021, 103, 102503.	2.8	13
102	Hyperspectral Image Clustering: Current achievements and future lines. IEEE Geoscience and Remote Sensing Magazine, 2021, 9, 35-67.	9.6	39
103	Enhanced Multiscale Feature Fusion Network for HSI Classification. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 10328-10347.	6.3	32
104	Sparsity-Based Clustering for Large Hyperspectral Remote Sensing Images. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 10410-10424.	6.3	17
105	Traffic Density Reduction Caused by City Lockdowns Across the World During the COVID-19 Epidemic: From the View of High-Resolution Remote Sensing Imagery. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 5180-5193.	4.9	8
106	Deep Convolutional Neural Network Framework for Subpixel Mapping. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 9518-9539.	6.3	36
107	Self-Attention Context Network: Addressing the Threat of Adversarial Attacks for Hyperspectral Image Classification. IEEE Transactions on Image Processing, 2021, 30, 8671-8685.	9.8	67
108	LR-Net: Low-Rank Spatial-Spectral Network for Hyperspectral Image Denoising. IEEE Transactions on Image Processing, 2021, 30, 8743-8758.	9.8	25

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109	Automatically Adjustable Multi-Scale Feature Extraction Framework for Hyperspectral Image Classification. , 2021, , .		4
110	Thick Cloud Removal for Sentinel-2 Time-Series Images via Combining Deep Prior and Low-Rank Tensor Completion. , 2021, , .		0
111	How to Construct a Deep Network-Based Hyperspectral Target Detector? â€”A LSTM Inspired Method. , 2021, , .		3
112	EDLAD: An Encoder-Decoder Long Short-Term Memory Network-Based Anomaly Detector for Hyperspectral Images. , 2021, , .		8
113	Change is Everywhere: Single-Temporal Supervised Object Change Detection in Remote Sensing Imagery. , 2021, , .		42
114	Mining Deep Semantic Representations for Scene Classification of High-Resolution Remote Sensing Imagery. IEEE Transactions on Big Data, 2020, 6, 522-536.	6.1	21
115	Sparse-Adaptive Hypergraph Discriminant Analysis for Hyperspectral Image Classification. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 1082-1086.	3.1	133
116	Beyond the Patchwise Classification: Spectral-Spatial Fully Convolutional Networks for Hyperspectral Image Classification. IEEE Transactions on Big Data, 2020, 6, 492-506.	6.1	97
117	Estimating surface soil moisture from satellite observations using a generalized regression neural network trained on sparse ground-based measurements in the continental U.S. Journal of Hydrology, 2020, 580, 124351.	5.4	61
118	Hyperspectral image classification based on multi-scale information compensation. Remote Sensing Letters, 2020, 11, 293-302.	1.4	6
119	Hyperspectral Image Denoising With Total Variation Regularization and Nonlocal Low-Rank Tensor Decomposition. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 3071-3084.	6.3	111
120	A Low-Rank and Sparse Matrix Decomposition- Based Dictionary Reconstruction and Anomaly Extraction Framework for Hyperspectral Anomaly Detection. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 1248-1252.	3.1	26
121	A robust spectral-spatial approach to identifying heterogeneous crops using remote sensing imagery with high spectral and spatial resolutions. Remote Sensing of Environment, 2020, 239, 111605.	11.0	65
122	Satellite-ground integrated destriping network: A new perspective for EO-1 Hyperion and Chinese hyperspectral satellite datasets. Remote Sensing of Environment, 2020, 237, 111416.	11.0	39
123	Exploiting Deep Features for Remote Sensing Image Retrieval: A Systematic Investigation. IEEE Transactions on Big Data, 2020, 6, 507-521.	6.1	62
124	Land-cover classification with high-resolution remote sensing images using transferable deep models. Remote Sensing of Environment, 2020, 237, 111322.	11.0	465
125	Change Detection in Multisource VHR Images via Deep Siamese Convolutional Multiple-Layers Recurrent Neural Network. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 2848-2864.	6.3	194
126	Spectralâ€”Spatialâ€”Temporal MAP-Based Sub-Pixel Mapping for Land-Cover Change Detection. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 1696-1717.	6.3	25



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127	Accessing the temporal and spectral features in crop type mapping using multi-temporal Sentinel-2 imagery: A case study of Yi'an County, Heilongjiang province, China. <i>Computers and Electronics in Agriculture</i> , 2020, 176, 105618.	7.7	65
128	Geographically and temporally weighted neural networks for satellite-based mapping of ground-level PM2.5. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2020, 167, 178-188.	11.1	55
129	WHU-Hi: UAV-borne hyperspectral with high spatial resolution (H2) benchmark datasets and classifier for precise crop identification based on deep convolutional neural network with CRF. <i>Remote Sensing of Environment</i> , 2020, 250, 112012.	11.0	210
130	Non-local Meets Global: An Integrated Paradigm for Hyperspectral Image Restoration. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2020, PP, 1-1.	13.9	66
131	Can Terrestrial Restoration Methodologies be Transferred to Planetary Hyperspectral Imagery? A Quantitative Intercomparison and Discussion. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2020, 13, 5759-5775.	4.9	1
132	The Effects of Fireworks Discharge on Atmospheric PM2.5 Concentration in the Chinese Lunar New Year. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 9333.	2.6	18
133	Mapping PM2.5 concentration at a sub-km level resolution: A dual-scale retrieval approach. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2020, 165, 140-151.	11.1	27
134	Deep spatio-spectral Bayesian posterior for hyperspectral image non-i.i.d. noise removal. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2020, 164, 125-137.	11.1	40
135	Open-source data-driven urban land-use mapping integrating point-line-polygon semantic objects: A case study of Chinese cities. <i>Remote Sensing of Environment</i> , 2020, 247, 111838.	11.0	64
136	COLOR: Cycling, Offline Learning, and Online Representation Framework for Airport and Airplane Detection Using GF-2 Satellite Images. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020, 58, 8438-8449.	6.3	12
137	Multiobjective Subpixel Mapping With Multiple Shifted Hyperspectral Images. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020, 58, 8176-8191.	6.3	12
138	HyNet: Hyper-scale object detection network framework for multiple spatial resolution remote sensing imagery. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2020, 166, 1-14.	11.1	54
139	Thick cloud and cloud shadow removal in multitemporal imagery using progressively spatio-temporal patch group deep learning. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2020, 162, 148-160.	11.1	92
140	A Spatial-Spectral Adaptive Haze Removal Method for Visible Remote Sensing Images. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020, 58, 6168-6180.	6.3	19
141	Hyperspectral Anomaly Detection via Locally Enhanced Low-Rank Prior. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020, 58, 6995-7009.	6.3	26
142	Review on graph learning for dimensionality reduction of hyperspectral image. <i>Geo-Spatial Information Science</i> , 2020, 23, 98-106.	5.3	21
143	Deep learning in environmental remote sensing: Achievements and challenges. <i>Remote Sensing of Environment</i> , 2020, 241, 111716.	11.0	744
144	Deep learning-based air temperature mapping by fusing remote sensing, station, simulation and socioeconomic data. <i>Remote Sensing of Environment</i> , 2020, 240, 111692.	11.0	95

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