

Hongyan Zhang

List of Publications by Year in descending order

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123
papers

6,631
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92079

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docs citations

124
times ranked

5561
citing authors

#	ARTICLE	IF	CITATIONS
1	Hider: A Hyperspectral Image Denoising Transformer With Spatialâ€“Spectral Constraints for Hybrid Noise Removal. IEEE Transactions on Neural Networks and Learning Systems, 2024, 35, 8797-8811.	12.6	18
2	SOSSF: Landsat-8 Image Synthesis on the Blending of Sentinel-1 and MODIS Data. IEEE Transactions on Geoscience and Remote Sensing, 2024, 62, 1-19.	6.4	0
3	UANet: An Uncertainty-Aware Network for Building Extraction From Remote Sensing Images. IEEE Transactions on Geoscience and Remote Sensing, 2024, 62, 1-13.	6.4	5
4	Multitarget Domain Adaptation Building Instance Extraction of Remote Sensing Imagery With Domain-Common Approximation Learning. IEEE Transactions on Geoscience and Remote Sensing, 2024, 62, 1-16.	6.4	0
5	An Unsupervised Dehazing Network With Hybrid Prior Constraints for Hyperspectral Image. IEEE Transactions on Geoscience and Remote Sensing, 2024, 62, 1-15.	6.4	1
6	G2LDIE: Global-to-Local Dynamic Information Enhancement Framework for Weakly Supervised Building Extraction From Remote Sensing Images. IEEE Transactions on Geoscience and Remote Sensing, 2024, 62, 1-14.	6.4	1
7	Harmony in diversity: Content cleansing change detection framework for very-high-resolution remote-sensing images. ISPRS Journal of Photogrammetry and Remote Sensing, 2024, 218, 1-19.	11.2	0
8	PSFormer: Pyramid Superpixel Transformer for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2024, 62, 1-16.	6.4	0
9	Pretrain a Remote Sensing Foundation Model by Promoting Intra-instance Similarity. IEEE Transactions on Geoscience and Remote Sensing, 2024, , 1-1.	6.4	0
10	ESCNet: 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.	12.6	52
11	Heterogeneous Regularization-Based Tensor Subspace Clustering for Hyperspectral Band Selection. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 9259-9273.	12.6	14
12	Transition Is a Process: Pair-to-Video Change Detection Networks for Very High Resolution Remote Sensing Images. IEEE Transactions on Image Processing, 2023, 32, 57-71.	10.2	38
13	A Spatialâ€“Spectral Transformer Network With Total Variation Loss for Hyperspectral Image Denoising. IEEE Geoscience and Remote Sensing Letters, 2023, 20, 1-5.	3.1	3
14	Cross-Domain Meta-Learning Under Dual-Adjustment Mode for Few-Shot Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2023, 61, 1-16.	6.4	6
15	GLoCNet: Robust Feature Matching With Globalâ€“Local Consistency Network for Remote Sensing Image Registration. IEEE Transactions on Geoscience and Remote Sensing, 2023, 61, 1-13.	6.4	1
16	Mapping annual center-pivot irrigated cropland in Brazil during the 1985â€“2021 period with cloud platforms and deep learning. ISPRS Journal of Photogrammetry and Remote Sensing, 2023, 205, 227-245.	11.2	1
17	Blind single-image-based thin cloud removal using a cloud perception integrated fast Fourier convolutional network. ISPRS Journal of Photogrammetry and Remote Sensing, 2023, 206, 63-86.	11.2	5
18	Correntropy-Based Autoencoder-Like NMF With Total Variation for Hyperspectral Unmixing. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	11

#	ARTICLE	IF	CITATIONS
19	A Structural Subspace Clustering Approach for Hyperspectral Band Selection. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	6.4	9
20	Hyperspectral Image Denoising Using Factor Group Sparsity-Regularized Nonconvex Low-Rank Approximation. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	6.4	48
21	Hybrid-Hypergraph Regularized Multiview Subspace Clustering for Hyperspectral Images. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	6.4	15
22	Hyperspectral Image Restoration by Tensor Fibered Rank Constrained Optimization and Plug-and-Play Regularization. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-17.	6.4	27
23	Double Low-Rank Matrix Decomposition for Hyperspectral Image Denoising and Destriping. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-19.	6.4	29
24	A Gather-to-Guide Network for Remote Sensing Semantic Segmentation of RGB and Auxiliary Image. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	6.4	17
25	A Local-Global Dual-Stream Network for Building Extraction From Very-High-Resolution Remote Sensing Images. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 1269-1283.	12.6	37
26	Subspace Clustering for Hyperspectral Images via Dictionary Learning With Adaptive Regularization. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-17.	6.4	26
27	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.	11.2	32
28	Correction to "Correntropy-Based Autoencoder-Like NMF With Total Variation for Hyperspectral Unmixing". IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-1.	3.1	0
29	The Outcome of the 2021 IEEE GRSS Data Fusion Contest-Track MSD: Multitemporal Semantic Change Detection. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 1643-1655.	4.9	15
30	Unsupervised Spectral-Spatial Semantic Feature Learning for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	6.4	20
31	Double Attention Based Multilevel One-Dimensional Convolution Neural Network for Hyperspectral Image Classification. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 3771-3787.	4.9	16
32	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.	6.4	25
33	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.	6.4	5
34	Multiyear Automated Mapping and Price Analysis of Garlic in Main Planting Areas of China Using Time-Series Remote Sensing Images. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 5222-5233.	4.9	3
35	Breaking the resolution barrier: A low-to-high network for large-scale high-resolution land-cover mapping using low-resolution labels. ISPRS Journal of Photogrammetry and Remote Sensing, 2022, 192, 244-267.	11.2	25
36	A Mutual Information Domain Adaptation Network for Remotely Sensed Semantic Segmentation. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	6.4	7

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37	Anisotropic Spatialâ€“Spectral Total Variation Regularized Double Low-Rank Approximation for HSI Denoising and Striping. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-19.	6.4	8
38	LESSFormer: Local-Enhanced Spectral-Spatial Transformer for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	6.4	30
39	A Large-Scale Benchmark Data Set for Evaluating Pansharpening Performance: Overview and Implementation. IEEE Geoscience and Remote Sensing Magazine, 2021, 9, 18-52.	10.3	100
40	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.	6.4	22
41	Large-Scale Semantic 3-D Reconstruction: Outcome of the 2019 IEEE GRSS Data Fusion Contestâ€“Part A. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 922-935.	4.9	23
42	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.	6.4	9
43	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.	7.9	22
44	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.	7.9	29
45	Remote Sensing Image Spatiotemporal Fusion Using a Generative Adversarial Network. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 4273-4286.	6.4	84
46	Multi-temporal cloud detection based on robust PCA for optical remote sensing imagery. Computers and Electronics in Agriculture, 2021, 188, 106342.	7.9	13
47	Hyperspectral Image Clustering: Current achievements and future lines. IEEE Geoscience and Remote Sensing Magazine, 2021, 9, 35-67.	10.3	51
48	Sparsity-Based Clustering for Large Hyperspectral Remote Sensing Images. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 10410-10424.	6.4	19
49	LR-Net: Low-Rank Spatial-Spectral Network for Hyperspectral Image Denoising. IEEE Transactions on Image Processing, 2021, 30, 8743-8758.	10.2	30
50	A New Comprehensive Drought Index Based on Response Adjustment for Vegetation Types. , 2021, , .		2
51	A Multi-Model Fusion of Convolution Neural Network and Random Forest for Detecting Settlements Without Electricity. , 2021, , .		5
52	Change Cross-Detection Based on Label Improvements and Multi-Model Fusion for Multi-Temporal Remote Sensing Images. , 2021, , .		6
53	The Outcome of the 2021 IEEE GRSS Data Fusion Contest - Track DSE: Detection of Settlements Without Electricity. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 12375-12385.	4.9	12
54	Hyperspectral Image Denoising With Total Variation Regularization and Nonlocal Low-Rank Tensor Decomposition. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 3071-3084.	6.4	122

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55	Accessing the temporal and spectral features in crop type mapping using multi-temporal Sentinel-2 imagery: A case study of Yiâ€™an County, Heilongjiang province, China. Computers and Electronics in Agriculture, 2020, 176, 105618.	7.9	77
56	Non-local Meets Global: An Integrated Paradigm for Hyperspectral Image Restoration. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, PP, 1-1.	15.3	90
57	Sketched Sparse Subspace Clustering For Large-Scale Hyperspectral Images. , 2020, , .		3
58	Unified Framework for the Joint Super-Resolution and Registration of Multiangle Multi/Hyperspectral Remote Sensing Images. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 2369-2384.	4.9	9
59	Sketch-Based Subspace Clustering of Hyperspectral Images. Remote Sensing, 2020, 12, 775.	4.1	14
60	Remote Sensing Image Spatio-Temporal Fusion via a Generative Adversarial Network Through One Prior Image Pair. , 2020, , .		2
61	Learning Discriminative Global and Local Features for Building Extraction from Aerial Images. , 2020, , .		1
62	Land Cover Mapping Based On Multi-Branch Fusion Of Object-Based And Pixel-Based Segmentation With Filtered Labels. , 2020, , .		0
63	Total Variation Regularized Collaborative Representation Clustering With a Locally Adaptive Dictionary for Hyperspectral Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 166-180.	6.4	46
64	Coupled Higher-Order Tensor Factorization for Hyperspectral and LiDAR Data Fusion and Classification. Remote Sensing, 2019, 11, 1959.	4.1	7
65	Superpixel-based spatial-spectral dimension reduction for hyperspectral imagery classification. Neurocomputing, 2019, 360, 138-150.	6.2	41
66	Semisupervised Sparse Subspace Clustering Method With a Joint Sparsity Constraint for Hyperspectral Remote Sensing Images. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 989-999.	4.9	27
67	Garlic Mapping for Sentinel-2 Time-Series Data Using a Random Forest Classifier. , 2019, , .		4
68	Landmark-Based Large-Scale Sparse Subspace Clustering Method for Hyperspectral Images. , 2019, , .		2
69	Multi-Level Fusion of the Multi-Receptive Fields Contextual Networks and Disparity Network for Pairwise Semantic Stereo. , 2019, , .		8
70	Cloud Removal of Optical Remote Sensing Imagery with Multitemporal Sar-Optical Data Using X-Mtgan. , 2019, , .		8
71	Laplacian-Regularized Low-Rank Subspace Clustering for Hyperspectral Image Band Selection. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 1723-1740.	6.4	101
72	Hyperspectral Image Denoising Using Local Low-Rank Matrix Recovery and Global Spatialâ€™Spectral Total Variation. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 713-729.	4.9	170

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73	Integrated research on land cover changes and the consequent influences: A case study of the western part of Tiaoxi Basin. , 2018, , .		0
74	Automated Paddy Rice Extent Extraction with Time Stacks of Sentinel Data: A Case Study in Jiangnan Plain, Hubei, China. , 2018, , .		7
75	Support Vector Machine Classification of Crop Lands Using Sentinel-2 Imagery. , 2018, , .		14
76	Joint Sparsity Based Sparse Subspace Clustering for Hyperspectral Images. , 2018, , .		19
77	Study on Urban Heat Island Intensity Level Identification Based on an Improved Restricted Boltzmann Machine. International Journal of Environmental Research and Public Health, 2018, 15, 186.	2.7	10
78	Cloud/shadow detection based on spectral indices for multi/hyperspectral optical remote sensing imagery. ISPRS Journal of Photogrammetry and Remote Sensing, 2018, 144, 235-253.	11.2	97
79	Total Variation Regularized Reweighted Sparse Nonnegative Matrix Factorization for Hyperspectral Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 3909-3921.	6.4	192
80	Hyperspectral Image Restoration Using Low-Rank Tensor Recovery. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 4589-4604.	4.9	142
81	A New Sparse Subspace Clustering Algorithm for Hyperspectral Remote Sensing Imagery. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 43-47.	3.1	85
82	Kernel Sparse Subspace Clustering with a Spatial Max Pooling Operation for Hyperspectral Remote Sensing Data Interpretation. Remote Sensing, 2017, 9, 335.	4.1	37
83	A Robust Sparse Representation Model for Hyperspectral Image Classification. Sensors, 2017, 17, 2087.	4.0	22
84	Pansharpening with a Guided Filter Based on Three-Layer Decomposition. Sensors, 2016, 16, 1068.	4.0	34
85	Robust superresolution of multiangle-multispectral remote sensing images based on rank minimization. , 2016, , .		1
86	Hyperspectral unmixing using total variation regularized reweighted sparse non-negative matrix factorization. , 2016, , .		3
87	Reweighted mass center based object-oriented sparse subspace clustering for hyperspectral images. Journal of Applied Remote Sensing, 2016, 10, 046014.	1.3	17
88	Squaring weighted low-rank subspace clustering for hyperspectral image band selection. , 2016, , .		10
89	Image super-resolution: The techniques, applications, and future. Signal Processing, 2016, 128, 389-408.	3.9	408
90	Weighted Sparse Graph Based Dimensionality Reduction for Hyperspectral Images. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 686-690.	3.1	44

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91	Hyperspectral Image Denoising with a Combined Spatial and Spectral Weighted Hyperspectral Total Variation Model. Canadian Journal of Remote Sensing, 2016, 42, 53-72.	2.3	29
92	Quality improvement of hyperspectral remote sensing images: A technical overview. , 2016, , .		1
93	Spectral-Spatial Sparse Subspace Clustering for Hyperspectral Remote Sensing Images. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 3672-3684.	6.4	187
94	Sparsity-Regularized Robust Non-Negative Matrix Factorization for Hyperspectral Unmixing. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 4267-4279.	4.9	96
95	A Remote Sensing Image Fusion Method Based on the Analysis Sparse Model. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 439-453.	4.9	32
96	Total-Variation-Regularized Low-Rank Matrix Factorization for Hyperspectral Image Restoration. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 178-188.	6.4	493
97	Spectral-spatial clustering of hyperspectral remote sensing image with sparse subspace clustering model. , 2015, , .		7
98	A Blind Super-Resolution Reconstruction Method Considering Image Registration Errors. International Journal of Fuzzy Systems, 2015, 17, 353-364.	4.0	14
99	A Nonlinear Multiple Feature Learning Classifier for Hyperspectral Images With Limited Training Samples. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 2728-2738.	4.9	21
100	Hyperspectral Anomaly Detection by the Use of Background Joint Sparse Representation. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 2523-2533.	4.9	202
101	Efficient superpixel-oriented multi-task joint sparse representation classification for hyperspectral imagery. , 2015, , .		0
102	Hyperspectral Image Denoising via Noise-Adjusted Iterative Low-Rank Matrix Approximation. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 3050-3061.	4.9	214
103	Adaptive Anisotropic Diffusion Method for Polarimetric SAR Speckle Filtering. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 1041-1050.	4.9	35
104	Super-Resolution Reconstruction for Multi-Angle Remote Sensing Images Considering Resolution Differences. Remote Sensing, 2014, 6, 637-657.	4.1	68
105	Background joint sparse representation for hyperspectral image subpixel anomaly detection. , 2014, , .		3
106	Hyperspectral Image Classification by Nonlocal Joint Collaborative Representation With a Locally Adaptive Dictionary. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 3707-3719.	6.4	178
107	A noise-adjusted iterative randomized singular value decomposition method for hyperspectral image denoising. , 2014, , .		3
108	A piece-wise approach to removing the nonlinear and irregular stripes in MODIS data. International Journal of Remote Sensing, 2014, 35, 44-53.	3.0	27

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109	Supervised Segmentation of Very High Resolution Images by the Use of Extended Morphological Attribute Profiles and a Sparse Transform. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 1409-1413.	3.1	38
110	Recovering Quantitative Remote Sensing Products Contaminated by Thick Clouds and Shadows Using Multitemporal Dictionary Learning. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 7086-7098.	6.4	238
111	A Nonlocal Weighted Joint Sparse Representation Classification Method for Hyperspectral Imagery. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 2056-2065.	4.9	251
112	Robust Registration by Rank Minimization for Multiangle Hyper/Multispectral Remotely Sensed Imagery. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 2443-2457.	4.9	20
113	Hyperspectral Image Restoration Using Low-Rank Matrix Recovery. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 4729-4743.	6.4	672
114	An Online Coupled Dictionary Learning Approach for Remote Sensing Image Fusion. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 1284-1294.	4.9	65
115	Two-Step Sparse Coding for the Pan-Sharpener of Remote Sensing Images. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 1792-1805.	4.9	120
116	Sub-Pixel Mapping Based on a MAP Model With Multiple Shifted Hyperspectral Imagery. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2013, 6, 580-593.	4.9	79
117	A unified sub-pixel mapping model integrating spectral unmixing for hyperspectral imagery. , 2013, , .		0
118	A Practical Compressed Sensing-Based Pan-Sharpener Method. IEEE Geoscience and Remote Sensing Letters, 2012, 9, 629-633.	3.1	133
119	Adjustable Model-Based Fusion Method for Multispectral and Panchromatic Images. IEEE Transactions on Systems, Man, and Cybernetics, 2012, 42, 1693-1704.	5.3	130
120	Classification for hyperspectral imagery based on nonlocal weighted joint sparsity model. , 2012, , .		0
121	A super-resolution reconstruction algorithm for hyperspectral images. Signal Processing, 2012, 92, 2082-2096.	3.9	138
122	A super-resolution reconstruction algorithm for surveillance images. Signal Processing, 2010, 90, 848-859.	3.9	284
123	A MAP Approach for Joint Image Registration, Blur Identification and Super Resolution. , 2009, , .		2