Hongtao Jiang

List of Publications by Year
in descending order

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73 papers	7,970 citations	61945 43 h-index	98753 67 g-index
73 all docs	73 docs citations	73 times ranked	5183 citing authors

#	Article	IF	Citations
1	Deep learning in environmental remote sensing: Achievements and challenges. Remote Sensing of Environment, 2020, 241, 111716.	4.6	744
2	Hyperspectral Image Restoration Using Low-Rank Matrix Recovery. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 4729-4743.	2.7	642
3	Hyperspectral Image Denoising Employing a Spectralâ€“Spatial Adaptive Total Variation Model. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 3660-3677.	2.7	462
4	Image super-resolution: The techniques, applications, and future. Signal Processing, 2016, 128, 389-408.	2.1	375
5	A Multiscale and Multidepth Convolutional Neural Network for Remote Sensing Imagery Pan-Sharpening. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 978-989.	2.3	374
6	Boosting the Accuracy of Multispectral Image Pansharpening by Learning a Deep Residual Network. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 1795-1799.	1.4	367
7	Missing Information Reconstruction of Remote Sensing Data: A Technical Review. IEEE Geoscience and Remote Sensing Magazine, 2015, 3, 61-85.	4.9	342
8	Hyperspectral Image Denoising Employing a Spatialâ€“Spectral Deep Residual Convolutional Neural Network. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 1205-1218.	2.7	322
9	Long-term and fine-scale satellite monitoring of the urban heat island effect by the fusion of multi-temporal and multi-sensor remote sensed data: A 26-year case study of the city of Wuhan in China. Remote Sensing of Environment, 2016, 172, 109-125.	4.6	263
10	An Integrated Framework for the Spatioâ€“Temporalâ€“Spectral Fusion of Remote Sensing Images. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 7135-7148.	2.7	242
11	Recovering missing pixels for Landsat ETM+ SLC-off imagery using multi-temporal regression analysis and a regularization method. Remote Sensing of Environment, 2013, 131, 182-194.	4.6	226
12	A MAP-Based Algorithm for Destriping and Inpainting of Remotely Sensed Images. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 1492-1502.	2.7	217
13	Review of the pansharpening methods for remote sensing images based on the idea of meta-analysis: Practical discussion and challenges. Information Fusion, 2019, 46, 102-113.	11.7	214
14	A MAP Approach for Joint Motion Estimation, Segmentation, and Super Resolution. IEEE Transactions on Image Processing, 2007, 16, 479-490.	6.0	201
15	Integrated fusion of multi-scale polar-orbiting and geostationary satellite observations for the mapping of high spatial and temporal resolution land surface temperature. Remote Sensing of Environment, 2015, 156, 169-181.	4.6	186
16	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.	2.3	161
17	Cloud removal for remotely sensed images by similar pixel replacement guided with a spatio-temporal MRF model. ISPRS Journal of Photogrammetry and Remote Sensing, 2014, 92, 54-68.	4.9	147
18	A Practical Compressed Sensing-Based Pan-Sharpening Method. IEEE Geoscience and Remote Sensing Letters, 2012, 9, 629-633.	1.4	131

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19	Multiframe Super-Resolution Employing a Spatially Weighted Total Variation Model. IEEE Transactions on Circuits and Systems for Video Technology, 2012, 22, 379-392.	5.6	128
20	Adjustable Model-Based Fusion Method for Multispectral and Panchromatic Images. IEEE Transactions on Systems, Man, and Cybernetics, 2012, 42, 1693-1704.	5.5	125
21	Hybrid Noise Removal in Hyperspectral Imagery With a Spatialâ€“Spectral Gradient Network. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 7317-7329.	2.7	117
22	Two-Step Sparse Coding for the Pan-Sharpening of Remote Sensing Images. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 1792-1805.	2.3	115
23	High-quality seamless DEM generation blending SRTM-1, ASTER GDEM v2 and ICESat/GLAS observations. ISPRS Journal of Photogrammetry and Remote Sensing, 2017, 123, 20-34.	4.9	97
24	A Spatial and Temporal Nonlocal Filter-Based Data Fusion Method. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 4476-4488.	2.7	94
25	Thick cloud and cloud shadow removal in multitemporal imagery using progressively spatio-temporal patch group deep learning. ISPRS Journal of Photogrammetry and Remote Sensing, 2020, 162, 148-160.	4.9	92
26	A Large-Scale Benchmark Data Set for Evaluating Pansharpening Performance: Overview and Implementation. IEEE Geoscience and Remote Sensing Magazine, 2021, 9, 18-52.	4.9	92
27	Noise Removal From Hyperspectral Image With Joint Spectralâ€“Spatial Distributed Sparse Representation. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 5425-5439.	2.7	88
28	Robust registration for remote sensing images by combining and localizing feature- and area-based methods. ISPRS Journal of Photogrammetry and Remote Sensing, 2019, 151, 15-26.	4.9	82
29	Super-Resolution Reconstruction Algorithm To MODIS Remote Sensing Images. Computer Journal, 2008, 52, 90-100.	1.5	81
30	A long-term and comprehensive assessment of the urbanization-induced impacts on vegetation net primary productivity. Science of the Total Environment, 2019, 669, 342-352.	3.9	80
31	Stripe Noise Separation and Removal in Remote Sensing Images by Consideration of the Global Sparsity and Local Variational Properties. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 3049-3060.	2.7	75
32	Super-Resolution Reconstruction for Multi-Angle Remote Sensing Images Considering Resolution Differences. Remote Sensing, 2014, 6, 637-657.	1.8	67
33	A spatial and temporal reflectance fusion model considering sensor observation differences. International Journal of Remote Sensing, 2013, 34, 4367-4383.	1.3	66
34	Adaptive Multiple-Frame Image Super-Resolution Based on U-Curve. IEEE Transactions on Image Processing, 2010, 19, 3157-3170.	6.0	61
35	Spatially Continuous and High-Resolution Land Surface Temperature Product Generation: A review of reconstruction and spatiotemporal fusion techniques. IEEE Geoscience and Remote Sensing Magazine, 2021, 9, 112-137.	4.9	61
36	Hyperspectral Image Denoising With a Spatialâ€“Spectral View Fusion Strategy. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 2314-2325.	2.7	56

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37	SAR Image Despeckling by the Use of Variational Methods With Adaptive Nonlocal Functionals. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 3421-3435.	2.7	52
38	The recent developments in cloud removal approaches of MODIS snow cover product. Hydrology and Earth System Sciences, 2019, 23, 2401-2416.	1.9	50
39	Adaptive Norm Selection for Regularized Image Restoration and Super-Resolution. IEEE Transactions on Cybernetics, 2016, 46, 1388-1399.	6.2	49
40	A Review on Recent Developments in Fully Polarimetric SAR Image Despeckling. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 743-758.	2.3	48
41	Advances and Opportunities in Remote Sensing Image Geometric Registration: A systematic review of state-of-the-art approaches and future research directions. IEEE Geoscience and Remote Sensing Magazine, 2021, 9, 120-142.	4.9	48
42	SAR Image Despeckling Employing a Recursive Deep CNN Prior. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 273-286.	2.7	45
43	A Universal Destriping Framework Combining 1-D and 2-D Variational Optimization Methods. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 808-822.	2.7	43
44	A differential information residual convolutional neural network for pansharpening. ISPRS Journal of Photogrammetry and Remote Sensing, 2020, 163, 257-271.	4.9	43
45	DEM generation from contours and a low-resolution DEM. ISPRS Journal of Photogrammetry and Remote Sensing, 2017, 134, 135-147.	4.9	36
46	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.	2.3	35
47	Pansharpening with a Guided Filter Based on Three-Layer Decomposition. Sensors, 2016, 16, 1068.	2.1	32
48	Shadow removal based on separated illumination correction for urban aerial remote sensing images. Signal Processing, 2019, 165, 197-208.	2.1	28
49	A piece-wise approach to removing the nonlinear and irregular stripes in MODIS data. International Journal of Remote Sensing, 2014, 35, 44-53.	1.3	25
50	Generating gapless land surface temperature with a high spatio-temporal resolution by fusing multi-source satellite-observed and model-simulated data. Remote Sensing of Environment, 2022, 278, 113083.	4.6	24
51	A 33-Year NPP Monitoring Study in Southwest China by the Fusion of Multi-Source Remote Sensing and Station Data. Remote Sensing, 2017, 9, 1082.	1.8	23
52	Double Low-Rank Matrix Decomposition for Hyperspectral Image Denoising and Destriping. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-19.	2.7	22
53	A Two-Stage Fusion Framework to Generate a Spatioâ€“Temporally Continuous MODIS NDSI Product over the Tibetan Plateau. Remote Sensing, 2019, 11, 2261.	1.8	17
54	Antinoise Hyperspectral Image Fusion by Mining Tensor Low-Multilinear-Rank and Variational Properties. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 7832-7848.	2.7	15

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55	A remote sensing assessment index for urban ecological livability and its application. Geo-Spatial Information Science, 0, , 1-22.	2.4	15
56	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.	4.9	15
57	Generating High-Quality and High-Resolution Seamless Satellite Imagery for Large-Scale Urban Regions. Remote Sensing, 2020, 12, 81.	1.8	14
58	A unified framework for spatio-temporal-spectral fusion of remote sensing images. , 2015, , .		12
59	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.	2.3	12
60	Improving the spatial resolution of hyperspectral image using panchromatic and multispectral images: An integrated method. , 2015, , .		10
61	Multiple timescale analysis of the urban heat island effect based on the Community Land Model: a case study of the city of Xiâ€™an, China. Environmental Monitoring and Assessment, 2018, 190, 8.	1.3	10
62	Monitoring of Historical Glacier Recession in Yulong Mountain by the Integration of Multisource Remote Sensing Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 388-400.	2.3	9
63	Opposite Spatiotemporal Patterns for Surface Urban Heat Island of Two â€œStove Citiesâ€•in China: Wuhan and Nanchang. Remote Sensing, 2021, 13, 4447.	1.8	8
64	Spatially continuous mapping of daily global ozone distribution (2004â€“2014) with the Aura OMI sensor. Journal of Geophysical Research D: Atmospheres, 2016, 121, 12,702-12,722.	1.2	7
65	PolSAR anisotropic diffusion filter with a refined similarity measure and an adaptive fidelity constraint. International Journal of Remote Sensing, 2016, 37, 5988-6011.	1.3	6
66	Hourly PM_{2.5} Concentration Monitoring With Spatiotemporal Continuity by the Fusion of Satellite and Station Observations. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 8019-8032.	2.3	6
67	SARF: A Simple, Adjustable, and Robust Fusion Method. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	5
68	Fusing Landsat 8 and Sentinel-2 data for 10-m dense time-series imagery using a degradation-term constrained deep network. International Journal of Applied Earth Observation and Geoinformation, 2022, 108, 102738.	1.4	5
69	A Deep Learning-Based Heterogeneous Spatio-Temporal-Spectral Fusion: SAR and Optical Images. , 2021, , .		3
70	One-Step High-Quality NDVI Time-Series Reconstruction by Joint Modeling of Gradual Vegetation Change and Negatively Biased Atmospheric Contamination. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-17.	2.7	3
71	A Novel Method for Long Time Series Passive Microwave Soil Moisture Downscaling over Central Tibet Plateau. Remote Sensing, 2022, 14, 2902.	1.8	2
72	Differential Information Residual Convolutional Neural Network for Pansharpening. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
73	Lunar Hyperspectral Image Destriping Method Using Low-Rank Matrix Recovery and Guided Profile. , 2020, , .		0