

# Liangpei Zhang

## List of Publications by Year in descending order

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426  
papers

40,682  
citations

1614

105  
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3579

181  
g-index

426  
all docs

426  
docs citations

426  
times ranked

17648  
citing authors

#	ARTICLE	IF	CITATIONS
1	Deep Learning in Remote Sensing: A Comprehensive Review and List of Resources. IEEE Geoscience and Remote Sensing Magazine, 2017, 5, 8-36.	9.6	1,976
2	Deep Learning for Remote Sensing Data: A Technical Tutorial on the State of the Art. IEEE Geoscience and Remote Sensing Magazine, 2016, 4, 22-40.	9.6	1,537
3	DOTA: A Large-Scale Dataset for Object Detection in Aerial Images. , 2018, , .		1,294
4	AID: A Benchmark Data Set for Performance Evaluation of Aerial Scene Classification. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 3965-3981.	6.3	1,291
5	Transferring Deep Convolutional Neural Networks for the Scene Classification of High-Resolution Remote Sensing Imagery. Remote Sensing, 2015, 7, 14680-14707.	4.0	949
6	Deep learning in environmental remote sensing: Achievements and challenges. Remote Sensing of Environment, 2020, 241, 111716.	11.0	744
7	Hyperspectral Image Restoration Using Low-Rank Matrix Recovery. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 4729-4743.	6.3	642
8	Land-cover classification with high-resolution remote sensing images using transferable deep models. Remote Sensing of Environment, 2020, 237, 111322.	11.0	465
9	Total-Variation-Regularized Low-Rank Matrix Factorization for Hyperspectral Image Restoration. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 178-188.	6.3	463
10	Hyperspectral Image Denoising Employing a Spectral-Spatial Adaptive Total Variation Model. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 3660-3677.	6.3	462
11	Saliency-Guided Unsupervised Feature Learning for Scene Classification. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 2175-2184.	6.3	444
12	Image super-resolution: The techniques, applications, and future. Signal Processing, 2016, 128, 389-408.	3.7	375
13	A Multiscale and Multidepth Convolutional Neural Network for Remote Sensing Imagery Pan-Sharpener. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 978-989.	4.9	374
14	On Combining Multiple Features for Hyperspectral Remote Sensing Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 879-893.	6.3	367
15	Boosting the Accuracy of Multispectral Image Pansharpening by Learning a Deep Residual Network. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 1795-1799.	3.1	367
16	Scene Classification via a Gradient Boosting Random Convolutional Network Framework. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 1793-1802.	6.3	355
17	Missing Information Reconstruction of Remote Sensing Data: A Technical Review. IEEE Geoscience and Remote Sensing Magazine, 2015, 3, 61-85.	9.6	342
18	Hyperspectral Image Denoising Employing a Spatial-Spectral Deep Residual Convolutional Neural Network. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 1205-1218.	6.3	322

#	ARTICLE	IF	CITATIONS
19	A Low-Rank and Sparse Matrix Decomposition-Based Mahalanobis Distance Method for Hyperspectral Anomaly Detection. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 1376-1389.	6.3	317
20	Morphological Building/Shadow Index for Building Extraction From High-Resolution Imagery Over Urban Areas. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2012, 5, 161-172.	4.9	315
21	Bag-of-Visual-Words Scene Classifier With Local and Global Features for High Spatial Resolution Remote Sensing Imagery. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 747-751.	3.1	289
22	Estimating Ground-Level PM <sub>2.5</sub> by Fusing Satellite and Station Observations: A Geo-Intelligent Deep Learning Approach. Geophysical Research Letters, 2017, 44, 11,985.	4.0	284
23	Multiple Feature Learning for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 1592-1606.	6.3	282
24	A super-resolution reconstruction algorithm for surveillance images. Signal Processing, 2010, 90, 848-859.	3.7	273
25	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.	11.0	263
26	Ensemble manifold regularized sparse low-rank approximation for multiview feature embedding. Pattern Recognition, 2015, 48, 3102-3112.	8.1	260
27	Feature Learning Using Spatial-Spectral Hypergraph Discriminant Analysis for Hyperspectral Image. IEEE Transactions on Cybernetics, 2019, 49, 2406-2419.	9.5	254
28	Tensor Discriminative Locality Alignment for Hyperspectral Image Spectral Spatial Feature Extraction. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 242-256.	6.3	251
29	Random-Selection-Based Anomaly Detector for Hyperspectral Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 1578-1589.	6.3	250
30	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	247
31	An Integrated Framework for the Spatio-Temporal Spectral Fusion of Remote Sensing Images. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 7135-7148.	6.3	242
32	Dirichlet-Derived Multiple Topic Scene Classification Model for High Spatial Resolution Remote Sensing Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 2108-2123.	6.3	242
33	A survey on vision-based UAV navigation. Geo-Spatial Information Science, 2018, 21, 21-32.	5.3	239
34	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.	6.3	227
35	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.	11.0	226
36	Slow Feature Analysis for Change Detection in Multispectral Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 2858-2874.	6.3	226

#	ARTICLE	IF	CITATIONS
37	Unsupervised Deep Slow Feature Analysis for Change Detection in Multi-Temporal Remote Sensing Images. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 9976-9992.	6.3	218
38	A MAP-Based Algorithm for Destriping and Inpainting of Remotely Sensed Images. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 1492-1502.	6.3	217
39	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.	19.1	214
40	An Adaptive Mean-Shift Analysis Approach for Object Extraction and Classification From Urban Hyperspectral Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 4173-4185.	6.3	210
41	Scene Classification Based on the Multifeature Fusion Probabilistic Topic Model for High Spatial Resolution Remote Sensing Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 6207-6222.	6.3	210
42	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. Remote Sensing of Environment, 2020, 250, 112012.	11.0	210
43	Weakly Supervised Learning Based on Coupled Convolutional Neural Networks for Aircraft Detection. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 5553-5563.	6.3	209
44	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	205
45	Hyperspectral image unsupervised classification by robust manifold matrix factorization. Information Sciences, 2019, 485, 154-169.	6.9	204
46	A MAP Approach for Joint Motion Estimation, Segmentation, and Super Resolution. IEEE Transactions on Image Processing, 2007, 16, 479-490.	9.8	201
47	A Multidirectional and Multiscale Morphological Index for Automatic Building Extraction from Multispectral GeoEye-1 Imagery. Photogrammetric Engineering and Remote Sensing, 2011, 77, 721-732.	0.6	199
48	Spectral-Spatial Unified Networks for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2018, , 1-17.	6.3	199
49	Advanced Multi-Sensor Optical Remote Sensing for Urban Land Use and Land Cover Classification: Outcome of the 2018 IEEE GRSS Data Fusion Contest. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 1709-1724.	4.9	194
50	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
51	Multi-feature combined cloud and cloud shadow detection in GaoFen-1 wide field of view imagery. Remote Sensing of Environment, 2017, 191, 342-358.	11.0	191
52	Mini-UAV-Borne Hyperspectral Remote Sensing: From Observation and Processing to Applications. IEEE Geoscience and Remote Sensing Magazine, 2018, 6, 46-62.	9.6	189
53	A pixel shape index coupled with spectral information for classification of high spatial resolution remotely sensed imagery. IEEE Transactions on Geoscience and Remote Sensing, 2006, 44, 2950-2961.	6.3	186
54	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	186

#	ARTICLE	IF	CITATIONS
55	Integrated fusion of multi-scale polar-orbiting and geostationary satellite observations for the mapping of high spatial and temporal resolution land surface temperature. <i>Remote Sensing of Environment</i> , 2015, 156, 169-181.	11.0	186
56	Total Variation Regularized Reweighted Sparse Nonnegative Matrix Factorization for Hyperspectral Unmixing. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2017, 55, 3909-3921.	6.3	181
57	Spectral Spatial Sparse Subspace Clustering for Hyperspectral Remote Sensing Images. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2016, 54, 3672-3684.	6.3	180
58	Dimensionality Reduction With Enhanced Hybrid-Graph Discriminant Learning for Hyperspectral Image Classification. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020, 58, 5336-5353.	6.3	180
59	A post-classification change detection method based on iterative slow feature analysis and Bayesian soft fusion. <i>Remote Sensing of Environment</i> , 2017, 199, 241-255.	11.0	178
60	An Adaptive Artificial Immune Network for Supervised Classification of Multi-/Hyperspectral Remote Sensing Imagery. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2012, 50, 894-909.	6.3	177
61	Sparse Transfer Manifold Embedding for Hyperspectral Target Detection. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2014, 52, 1030-1043.	6.3	173
62	Point-surface fusion of station measurements and satellite observations for mapping PM2.5 distribution in China: Methods and assessment. <i>Atmospheric Environment</i> , 2017, 152, 477-489.	4.1	166
63	Dimensionality Reduction Based on Clonal Selection for Hyperspectral Imagery. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2007, 45, 4172-4186.	6.3	164
64	A Sparse Representation-Based Binary Hypothesis Model for Target Detection in Hyperspectral Images. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2015, 53, 1346-1354.	6.3	161
65	Beyond the Sparsity-Based Target Detector: A Hybrid Sparsity and Statistics-Based Detector for Hyperspectral Images. <i>IEEE Transactions on Image Processing</i> , 2016, 25, 5345-5357.	9.8	161
66	Hyperspectral Image Denoising Using Local Low-Rank Matrix Recovery and Global Spatial Spectral Total Variation. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2018, 11, 713-729.	4.9	161
67	A Total Variation Regularization Based Super-Resolution Reconstruction Algorithm for Digital Video. <i>Eurasip Journal on Advances in Signal Processing</i> , 2007, 2007, .	1.7	160
68	Spatial Group Sparsity Regularized Nonnegative Matrix Factorization for Hyperspectral Unmixing. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2017, 55, 6287-6304.	6.3	160
69	Hyperspectral image classification via a random patches network. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2018, 142, 344-357.	11.1	157
70	Interpretable Hyperspectral Artificial Intelligence: When nonconvex modeling meets hyperspectral remote sensing. <i>IEEE Geoscience and Remote Sensing Magazine</i> , 2021, 9, 52-87.	9.6	157
71	A new sub-pixel mapping algorithm based on a BP neural network with an observation model. <i>Neurocomputing</i> , 2008, 71, 2046-2054.	5.9	156
72	Classification and Extraction of Spatial Features in Urban Areas Using High-Resolution Multispectral Imagery. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2007, 4, 260-264.	3.1	154

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73	Compression of hyperspectral remote sensing images by tensor approach. <i>Neurocomputing</i> , 2015, 147, 358-363.	5.9	154
74	Computational intelligence in optical remote sensing image processing. <i>Applied Soft Computing Journal</i> , 2018, 64, 75-93.	7.2	153
75	Band Selection Using Improved Sparse Subspace Clustering for Hyperspectral Imagery Classification. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2015, 8, 2784-2797.	4.9	151
76	Few-Shot Hyperspectral Image Classification With Unknown Classes Using Multitask Deep Learning. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021, 59, 5085-5102.	6.3	150
77	Weighted Feature Fusion of Convolutional Neural Network and Graph Attention Network for Hyperspectral Image Classification. <i>IEEE Transactions on Image Processing</i> , 2022, 31, 1559-1572.	9.8	150
78	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
79	Cloud removal for remotely sensed images by similar pixel replacement guided with a spatio-temporal MRF model. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2014, 92, 54-68.	11.1	147
80	The Relationships between PM2.5 and Meteorological Factors in China: Seasonal and Regional Variations. <i>International Journal of Environmental Research and Public Health</i> , 2017, 14, 1510.	2.6	146
81	Target detection based on a dynamic subspace. <i>Pattern Recognition</i> , 2014, 47, 344-358.	8.1	145
82	Unsupervised Feature Learning Via Spectral Clustering of Multidimensional Patches for Remotely Sensed Scene Classification. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2015, 8, 2015-2030.	4.9	145
83	Artificial Intelligence for Remote Sensing Data Analysis: A review of challenges and opportunities. <i>IEEE Geoscience and Remote Sensing Magazine</i> , 2022, 10, 270-294.	9.6	140
84	A Deeply Supervised Attention Metric-Based Network and an Open Aerial Image Dataset for Remote Sensing Change Detection. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-16.	6.3	135
85	A super-resolution reconstruction algorithm for hyperspectral images. <i>Signal Processing</i> , 2012, 92, 2082-2096.	3.7	133
86	Sparse-Adaptive Hypergraph Discriminant Analysis for Hyperspectral Image Classification. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2020, 17, 1082-1086.	3.1	133
87	An unsupervised artificial immune classifier for multi/hyperspectral remote sensing imagery. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2006, 44, 420-431.	6.3	132
88	A Practical Compressed Sensing-Based Pan-Sharpener Method. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2012, 9, 629-633.	3.1	131
89	Multiframe Super-Resolution Employing a Spatially Weighted Total Variation Model. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2012, 22, 379-392.	8.3	128
90	Adjustable Model-Based Fusion Method for Multispectral and Panchromatic Images. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2012, 42, 1693-1704.	5.0	125

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91	An Endmember Dissimilarity Constrained Non-Negative Matrix Factorization Method for Hyperspectral Unmixing. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2013, 6, 554-569.	4.9	125
92	An effective thin cloud removal procedure for visible remote sensing images. ISPRS Journal of Photogrammetry and Remote Sensing, 2014, 96, 224-235.	11.1	125
93	FPGA: Fast Patch-Free Global Learning Framework for Fully End-to-End Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 5612-5626.	6.3	123
94	Efficient Superpixel-Level Multitask Joint Sparse Representation for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 5338-5351.	6.3	117
95	Hybrid Noise Removal in Hyperspectral Imagery With a Spatial-Spectral Gradient Network. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 7317-7329.	6.3	117
96	Hyperspectral Image Denoising Using a 3-D Attention Denoising Network. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 10348-10363.	6.3	116
97	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.	4.9	115
98	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
99	Mini-Unmanned Aerial Vehicle-Based Remote Sensing: Techniques, applications, and prospects. IEEE Geoscience and Remote Sensing Magazine, 2019, 7, 29-63.	9.6	114
100	Non-Local Sparse Unmixing for Hyperspectral Remote Sensing Imagery. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 1889-1909.	4.9	113
101	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
102	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
103	Dimensionality Reduction and Classification of Hyperspectral Images Using Ensemble Discriminative Local Metric Learning. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 2509-2524.	6.3	110
104	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
105	Multi-class geospatial object detection based on a position-sensitive balancing framework for high spatial resolution remote sensing imagery. ISPRS Journal of Photogrammetry and Remote Sensing, 2018, 138, 281-294.	11.1	109
106	A Subspace-Based Change Detection Method for Hyperspectral Images. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2013, 6, 815-830.	4.9	108
107	Large patch convolutional neural networks for the scene classification of high spatial resolution imagery. Journal of Applied Remote Sensing, 2016, 10, 025006.	1.3	106
108	Remote Sensing Image Subpixel Mapping Based on Adaptive Differential Evolution. IEEE Transactions on Systems, Man, and Cybernetics, 2012, 42, 1306-1329.	5.0	104

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109	Evaluation of Morphological Texture Features for Mangrove Forest Mapping and Species Discrimination Using Multispectral IKONOS Imagery. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2009, 6, 393-397.	3.1	102
110	A comparative study of spatial approaches for urban mapping using hyperspectral ROSIS images over Pavia City, northern Italy. <i>International Journal of Remote Sensing</i> , 2009, 30, 3205-3221.	2.9	101
111	Deep building footprint update network: A semi-supervised method for updating existing building footprint from bi-temporal remote sensing images. <i>Remote Sensing of Environment</i> , 2021, 264, 112589.	11.0	101
112	A Robust Nonlinear Hyperspectral Anomaly Detection Approach. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2014, 7, 1227-1234.	4.9	100
113	Kernel Slow Feature Analysis for Scene Change Detection. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2017, 55, 2367-2384.	6.3	99
114	The relationships between PM <sub>2.5</sub> and aerosol optical depth (AOD) in mainland China: About and behind the spatio-temporal variations. <i>Environmental Pollution</i> , 2019, 248, 526-535.	7.5	99
115	Laplacian-Regularized Low-Rank Subspace Clustering for Hyperspectral Image Band Selection. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019, 57, 1723-1740.	6.3	99
116	A Novel Semisupervised Active-Learning Algorithm for Hyperspectral Image Classification. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2017, 55, 3071-3083.	6.3	98
117	High-quality seamless DEM generation blending SRTM-1, ASTER GDEM v2 and ICESat/GLAS observations. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2017, 123, 20-34.	11.1	97
118	Beyond the Patchwise Classification: Spectral-Spatial Fully Convolutional Networks for Hyperspectral Image Classification. <i>IEEE Transactions on Big Data</i> , 2020, 6, 492-506.	6.1	97
119	Hyperspectral image noise reduction based on rank-1 tensor decomposition. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2013, 83, 50-63.	11.1	96
120	Compressed Sensing-Based Inpainting of Aqua Moderate Resolution Imaging Spectroradiometer Band 6 Using Adaptive Spectrum-Weighted Sparse Bayesian Dictionary Learning. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2014, 52, 894-906.	6.3	96
121	Estimating Regional Ground-Level PM <sub>2.5</sub> Directly From Satellite Top-of-Atmosphere Reflectance Using Deep Belief Networks. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 13,875.	3.3	96
122	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
123	A Spatial and Temporal Nonlocal Filter-Based Data Fusion Method. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2017, 55, 4476-4488.	6.3	94
124	Scene-Driven Multitask Parallel Attention Network for Building Extraction in High-Resolution Remote Sensing Images. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021, 59, 4287-4306.	6.3	94
125	Remote Sensing Image Mosaicking: Achievements and Challenges. <i>IEEE Geoscience and Remote Sensing Magazine</i> , 2019, 7, 8-22.	9.6	93
126	Sparsity-Regularized Robust Non-Negative Matrix Factorization for Hyperspectral Unmixing. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2016, 9, 4267-4279.	4.9	92

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127	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.	11.1	92
128	High-Resolution Image Classification Integrating Spectral-Spatial-Location Cues by Conditional Random Fields. IEEE Transactions on Image Processing, 2016, 25, 4033-4045.	9.8	91
129	Joint Sparse Representation and Multitask Learning for Hyperspectral Target Detection. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 894-906.	6.3	90
130	Noise Removal From Hyperspectral Image With Joint Spectral-Spatial Distributed Sparse Representation. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 5425-5439.	6.3	88
131	Spatiotemporal Detection and Analysis of Urban Villages in Mega City Regions of China Using High-Resolution Remotely Sensed Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 3639-3657.	6.3	87
132	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
133	The Fisher Kernel Coding Framework for High Spatial Resolution Scene Classification. Remote Sensing, 2016, 8, 157.	4.0	86
134	Image stitching by line-guided local warping with global similarity constraint. Pattern Recognition, 2018, 83, 481-497.	8.1	85
135	Hybrid Detectors Based on Selective Endmembers. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 2633-2646.	6.3	83
136	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.	11.1	83
137	Super-Resolution Reconstruction Algorithm To MODIS Remote Sensing Images. Computer Journal, 2008, 52, 90-100.	2.4	81
138	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.	8.0	80
139	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
140	An Adaptive Subpixel Mapping Method Based on MAP Model and Class Determination Strategy for Hyperspectral Remote Sensing Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 1411-1426.	6.3	78
141	Automatic Fuzzy Clustering Based on Adaptive Multi-Objective Differential Evolution for Remote Sensing Imagery. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2013, 6, 2290-2301.	4.9	77
142	A robust mosaicking procedure for high spatial resolution remote sensing images. ISPRS Journal of Photogrammetry and Remote Sensing, 2015, 109, 108-125.	11.1	77
143	Patch Matching-Based Multitemporal Group Sparse Representation for the Missing Information Reconstruction of Remote-Sensing Images. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 3629-3641.	4.9	77
144	Iterative Reweighting Heterogeneous Transfer Learning Framework for Supervised Remote Sensing Image Classification. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 2022-2035.	4.9	77

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145	Robust and Discriminative Labeling for Multi-Label Active Learning Based on Maximum Correntropy Criterion. IEEE Transactions on Image Processing, 2017, 26, 1694-1707.	9.8	77
146	Hyperspectral Anomaly Detection via a Sparsity Score Estimation Framework. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 3208-3222.	6.3	76
147	A New Sparse Subspace Clustering Algorithm for Hyperspectral Remote Sensing Imagery. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 43-47.	3.1	76
148	Learning Attraction Field Representation for Robust Line Segment Detection. , 2019, , .		76
149	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.	6.3	75
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