Xiuping Jia

List of Publications by Year
in descending order

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317 papers	12,400 citations	36203 51 h-index	37111 96 g-index
319 all docs	319 docs citations	319 times ranked	7875 citing authors

#	Article	IF	Citations
1	Deep Feature Extraction and Classification of Hyperspectral Images Based on Convolutional Neural Networks. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 6232-6251.	2.7	2,064
2	Remote Sensing Digital Image Analysis. , 1999, , .		1,103
3	Spectralâ€“Spatial Classification of Hyperspectral Data Based on Deep Belief Network. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 2381-2392.	2.3	974
4	Segmented principal components transformation for efficient hyperspectral remote-sensing image display and classification. IEEE Transactions on Geoscience and Remote Sensing, 1999, 37, 538-542.	2.7	331
5	Feature Mining for Hyperspectral Image Classification. Proceedings of the IEEE, 2013, 101, 676-697.	16.4	321
6	Nonlinear Multiple Kernel Learning With Multiple-Structure-Element Extended Morphological Profiles for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 3235-3247.	2.7	203
7	Hyperspectral Images Classification With Gabor Filtering and Convolutional Neural Network. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 2355-2359.	1.4	199
8	Multiple Kernel Learning for Hyperspectral Image Classification: A Review. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 6547-6565.	2.7	194
9	Adaptive Markov Random Field Approach for Classification of Hyperspectral Imagery. IEEE Geoscience and Remote Sensing Letters, 2011, 8, 973-977.	1.4	161
10	Deep Fusion of Remote Sensing Data for Accurate Classification. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 1253-1257.	1.4	148
11	Foreword to the Special Issue on Spectral Unmixing of Remotely Sensed Data. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 4103-4110.	2.7	133
12	Hyperspectral Image Classification Using Convolutional Neural Networks and Multiple Feature Learning. Remote Sensing, 2018, 10, 299.	1.8	127
13	Efficient maximum likelihood classification for imaging spectrometer data sets. IEEE Transactions on Geoscience and Remote Sensing, 1994, 32, 274-281.	2.7	121
14	Deep Learning Ensemble for Hyperspectral Image Classification. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 1882-1897.	2.3	108
15	A Novel Semisupervised Active-Learning Algorithm for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 3071-3083.	2.7	98
16	A Novel MKL Model of Integrating LiDAR Data and MSI for Urban Area Classification. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 5312-5326.	2.7	90
17	Cloud Removal Based on Sparse Representation via Multitemporal Dictionary Learning. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 2998-3006.	2.7	88
18	Collinearity and orthogonality of endmembers in linear spectral unmixing. International Journal of Applied Earth Observation and Geoinformation, 2012, 18, 491-503.	1.4	86

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19	Structure Tensor and Guided Filtering-Based Algorithm for Hyperspectral Anomaly Detection. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 4218-4230.	2.7	85
20	Superpixel-Based Graphical Model for Remote Sensing Image Mapping. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 5861-5871.	2.7	83
21	Integration of Soft and Hard Classifications Using Extended Support Vector Machines. IEEE Geoscience and Remote Sensing Letters, 2009, 6, 543-547.	1.4	82
22	A comparison of information value and logistic regression models in landslide susceptibility mapping by using GIS. Environmental Earth Sciences, 2016, 75, 1.	1.3	81
23	A Quantitative Analysis of Virtual Endmembers' Increased Impact on the Collinearity Effect in Spectral Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 2945-2956.	2.7	78
24	Deep Convolutional Capsule Network for Hyperspectral Image Spectral and Spectral-Spatial Classification. Remote Sensing, 2019, 11, 223.	1.8	77
25	Combinational Build-Up Index (CBI) for Effective Impervious Surface Mapping in Urban Areas. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 2081-2092.	2.3	76
26	Remote Sensing Image Super-Resolution Using Novel Dense-Sampling Networks. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 1618-1633.	2.7	76
27	A Dynamic Neighborhood Learning-Based Gravitational Search Algorithm. IEEE Transactions on Cybernetics, 2018, 48, 436-447.	6.2	75
28	A Discontinuity Preserving Relaxation Scheme for Spectralâ€“Spatial Hyperspectral Image Classification. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 625-639.	2.3	73
29	Spectral constraint adversarial autoencoders approach to feature representation in hyperspectral anomaly detection. Neural Networks, 2019, 119, 222-234.	3.3	72
30	Probabilistic Fusion of Pixel-Level and Superpixel-Level Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 7416-7430.	2.7	71
31	From Subpixel to Superpixel: A Novel Fusion Framework for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 4398-4411.	2.7	71
32	Effective Sequential Classifier Training for SVM-Based Multitemporal Remote Sensing Image Classification. IEEE Transactions on Image Processing, 2018, 27, 3036-3048.	6.0	71
33	Collaborative Representation-Based Multiscale Superpixel Fusion for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 7770-7784.	2.7	71
34	A Deep Siamese Network with Hybrid Convolutional Feature Extraction Module for Change Detection Based on Multi-sensor Remote Sensing Images. Remote Sensing, 2020, 12, 205.	1.8	71
35	Super Resolution for Remote Sensing Images Based on a Universal Hidden Markov Tree Model. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 1270-1278.	2.7	70
36	Gabor Cube Selection Based Multitask Joint Sparse Representation for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 3174-3187.	2.7	70

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37	Three-Dimensional Local Binary Patterns for Hyperspectral Imagery Classification. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 2399-2413.	2.7	70
38	Local Binary Pattern-Based Hyperspectral Image Classification With Superpixel Guidance. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 749-759.	2.7	67
39	Mapping two Eucalyptus subgenera using multiple endmember spectral mixture analysis and continuum-removed imaging spectrometry data. Remote Sensing of Environment, 2011, 115, 1115-1128.	4.6	66
40	Deep learning based regression for optically inactive inland water quality parameter estimation using airborne hyperspectral imagery. Environmental Pollution, 2021, 286, 117534.	3.7	65
41	Subspace Detection Using a Mutual Information Measure for Hyperspectral Image Classification. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 424-428.	1.4	63
42	A stability constrained adaptive alpha for gravitational search algorithm. Knowledge-Based Systems, 2018, 139, 200-213.	4.0	63
43	Hyperspectral Image Super-Resolution Using Deep Feature Matrix Factorization. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 6055-6067.	2.7	63
44	Cluster-space representation for hyperspectral data classification. IEEE Transactions on Geoscience and Remote Sensing, 2002, 40, 593-598.	2.7	61
45	Fusion of Multiscale Convolutional Neural Networks for Building Extraction in Very High-Resolution Images. Remote Sensing, 2019, 11, 227.	1.8	61
46	Class-Specific Sparse Multiple Kernel Learning for Spectralâ€“Spatial Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 7351-7365.	2.7	60
47	Managing the Spectral-Spatial Mix in Context Classification Using Markov Random Fields. IEEE Geoscience and Remote Sensing Letters, 2008, 5, 311-314.	1.4	56
48	Thin cloud removal from optical remote sensing images using the noise-adjusted principal components transform. ISPRS Journal of Photogrammetry and Remote Sensing, 2019, 149, 215-225.	4.9	56
49	A Novel Geometry-Based Feature-Selection Technique for Hyperspectral Imagery. IEEE Geoscience and Remote Sensing Letters, 2007, 4, 171-175.	1.4	54
50	Generalization of Subpixel Analysis for Hyperspectral Data With Flexibility in Spectral Similarity Measures. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 2165-2171.	2.7	53
51	Thin Cloud Removal Based on Signal Transmission Principles and Spectral Mixture Analysis. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 1659-1669.	2.7	53
52	Optimized Kernel Minimum Noise Fraction Transformation for Hyperspectral Image Classification. Remote Sensing, 2017, 9, 548.	1.8	52
53	Simplified Conditional Random Fields With Class Boundary Constraint for Spectral-Spatial Based Remote Sensing Image Classification. IEEE Geoscience and Remote Sensing Letters, 2012, 9, 856-860.	1.4	51
54	Simultaneous image color correction and enhancement using particle swarm optimization. Engineering Applications of Artificial Intelligence, 2013, 26, 2356-2371.	4.3	51

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55	Binary coding of imaging spectrometer data for fast spectral matching and classification. Remote Sensing of Environment, 1993, 43, 47-53.	4.6	50
56	Conditional Random Field and Deep Feature Learning for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 1612-1628.	2.7	49
57	Spectralâ€“Spatial Gabor Surface Feature Fusion Approach for Hyperspectral Imagery Classification. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 1142-1154.	2.7	49
58	Analysis of Spectral Bands and Spatial Resolutions for Weed Classification Via Deep Convolutional Neural Network. IEEE Geoscience and Remote Sensing Letters, 2019, 16, 183-187.	1.4	49
59	Deep Fusion of Localized Spectral Features and Multi-scale Spatial Features for Effective Classification of Hyperspectral Images. International Journal of Applied Earth Observation and Geoinformation, 2020, 91, 102157.	1.4	49
60	Hyperspectral Image Super-Resolution via Intrafusion Network. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 7459-7471.	2.7	48
61	Multimodal hyperspectral remote sensing: an overview and perspective. Science China Information Sciences, 2021, 64, 1.	2.7	47
62	Superpixel-Based Multitask Learning Framework for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 2575-2588.	2.7	45
63	Multiple Feature-Based Superpixel-Level Decision Fusion for Hyperspectral and LiDAR Data Classification. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 1437-1452.	2.7	45
64	Multi-spectral remote sensing image registration via spatial relationship analysis on sift keypoints. , 2010, , .		44
65	Robust Automatic Registration of Multimodal Satellite Images Using CCRE With Partial Volume Interpolation. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 4050-4061.	2.7	42
66	A Lightweight Convolutional Neural Network for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 4150-4163.	2.7	42
67	Using Suitable Neighbors to Augment the Training Set in Hyperspectral Maximum Likelihood Classification. IEEE Geoscience and Remote Sensing Letters, 2008, 5, 774-777.	1.4	41
68	Universal HMT based super resolution for remote sensing images. , 2008, , .		41
69	Semi-supervised DNN regression on airborne hyperspectral imagery for improved spatial soil properties prediction. Geoderma, 2021, 385, 114875.	2.3	41
70	Multiple 3-D Feature Fusion Framework for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 1873-1886.	2.7	40
71	Spectralâ€“Spatial Self-Attention Networks for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	2.7	40
72	TDSSC: A Three-Directions Spectralâ€“Spatial Convolution Neural Network for Hyperspectral Image Change Detection. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 377-388.	2.3	39

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73	Multi-Resolution Weed Classification via Convolutional Neural Network and Superpixel Based Local Binary Pattern Using Remote Sensing Images. Remote Sensing, 2019, 11, 1692.	1.8	38
74	Remote Sensing Image Super-Resolution Using Second-Order Multi-Scale Networks. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 3473-3485.	2.7	37
75	Dual feature extraction network for hyperspectral image analysis. Pattern Recognition, 2021, 118, 107992.	5.1	37
76	One-Class Oriented Feature Selection and Classification of Heterogeneous Remote Sensing Images. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 1606-1612.	2.3	36
77	Deep convolutional networks with residual learning for accurate spectral-spatial denoising. Neurocomputing, 2018, 312, 372-381.	3.5	36
78	High-quality spectral-spatial reconstruction using saliency detection and deep feature enhancement. Pattern Recognition, 2019, 88, 139-152.	5.1	36
79	Using Hurst and Lyapunov Exponent For Hyperspectral Image Feature Extraction. IEEE Geoscience and Remote Sensing Letters, 2012, 9, 705-709.	1.4	35
80	Multi-scale superpixel spectralâ€“spatial classification of hyperspectral images. International Journal of Remote Sensing, 2016, 37, 4905-4922.	1.3	35
81	Comparing six pixel-wise classifiers for tropical rural land cover mapping using four forms of fully polarimetric SAR data. International Journal of Remote Sensing, 2017, 38, 3274-3293.	1.3	34
82	Joint weighted nuclear norm and total variation regularization for hyperspectral image denoising. International Journal of Remote Sensing, 2018, 39, 334-355.	1.3	34
83	SpaSSA: Superpixelwise Adaptive SSA for Unsupervised Spatialâ€“Spectral Feature Extraction in Hyperspectral Image. IEEE Transactions on Cybernetics, 2022, 52, 6158-6169.	6.2	33
84	Super-Resolution for GaoFen-4 Remote Sensing Images. IEEE Geoscience and Remote Sensing Letters, 2018, 15, 28-32.	1.4	32
85	A Semisupervised Siamese Network for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-17.	2.7	32
86	An improved estimation model for soil heavy metal(loid) concentration retrieval in mining areas using reflectance spectroscopy. Journal of Soils and Sediments, 2018, 18, 2008-2022.	1.5	31
87	Error Bounded Foreground and Background Modeling for Moving Object Detection in Satellite Videos. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 2659-2669.	2.7	31
88	Hyperspectral Unmixing Based on Nonnegative Matrix Factorization: A Comprehensive Review. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 4414-4436.	2.3	31
89	Visual impact enhancement via image histogram smoothing and continuous intensity relocation. Computers and Electrical Engineering, 2011, 37, 681-694.	3.0	29
90	Wavelet Packet Analysis and Gray Model for Feature Extraction of Hyperspectral Data. IEEE Geoscience and Remote Sensing Letters, 2013, 10, 682-686.	1.4	29

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91	Attention mechanism-based generative adversarial networks for cloud removal in Landsat images. Remote Sensing of Environment, 2022, 271, 112902.	4.6	29
92	Crater Detection Based on Gist Features. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 23-29.	2.3	28
93	Combinational shadow index for building shadow extraction in urban areas from Sentinel-2A MSI imagery. International Journal of Applied Earth Observation and Geoinformation, 2019, 78, 53-65.	1.4	27
94	Superpixel-Level Weighted Label Propagation for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 5077-5091.	2.7	27
95	Multiattention Generative Adversarial Network for Remote Sensing Image Super-Resolution. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	2.7	27
96	3-D Gaussianâ€“Gabor Feature Extraction and Selection for Hyperspectral Imagery Classification. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 8813-8826.	2.7	26
97	Nomination-favoured opinion pool for optical-SAR-synergistic rice mapping in face of weakened flooding signals. ISPRS Journal of Photogrammetry and Remote Sensing, 2019, 155, 187-205.	4.9	26
98	Spectralâ€“Spatial Hyperspectral Image Classification Using a Multiscale Conservative Smoothing Scheme and Adaptive Sparse Representation. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 7718-7730.	2.7	26
99	A Novel Band Selection and Spatial Noise Reduction Method for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	2.7	26
100	A Dempsterâ€“Shafer Relaxation Approach to Context Classification. IEEE Transactions on Geoscience and Remote Sensing, 2007, 45, 1422-1431.	2.7	25
101	Using imaging spectroscopy to estimate integrated measures of foliage nutritional quality. Methods in Ecology and Evolution, 2012, 3, 416-426.	2.2	25
102	On Spectral Unmixing Resolution Using Extended Support Vector Machines. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 4985-4996.	2.7	25
103	Fusion of PCA and Segmented-PCA Domain Multiscale 2-D-SSA for Effective Spectral-Spatial Feature Extraction and Data Classification in Hyperspectral Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	2.7	25
104	Path Planning for Unmanned Aerial Vehicle Using a Mix-Strategy-Based Gravitational Search Algorithm. IEEE Access, 2021, 9, 57033-57045.	2.6	25
105	Cross-frame keypoint-based and spatial motion information-guided networks for moving vehicle detection and tracking in satellite videos. ISPRS Journal of Photogrammetry and Remote Sensing, 2021, 177, 116-130.	4.9	25
106	Fast<tex>k</tex>-NN Classification Using the Cluster-Space Approach. IEEE Geoscience and Remote Sensing Letters, 2005, 2, 225-228.	1.4	24
107	Unsupervised feature extraction based on a mutual information measure for hyperspectral image classification. , 2011, , .		24
108	Spectral Unmixing in Multiple-Kernel Hilbert Space for Hyperspectral Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 3968-3981.	2.7	24

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109	Hyperspectral Image Classification Using Joint Sparse Model and Discontinuity Preserving Relaxation. IEEE Geoscience and Remote Sensing Letters, 2018, 15, 78-82.	1.4	24
110	Graph-in-Graph Convolutional Network for Hyperspectral Image Classification. IEEE Transactions on Neural Networks and Learning Systems, 2024, 35, 1157-1171.	7.2	24
111	Locally informed gravitational search algorithm. Knowledge-Based Systems, 2016, 104, 134-144.	4.0	23
112	A Framework of Mixed Sparse Representations for Remote Sensing Images. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 1210-1221.	2.7	23
113	An Improved Combination of Spectral and Spatial Features for Vegetation Classification in Hyperspectral Images. Remote Sensing, 2017, 9, 261.	1.8	23
114	Gravitation-Based Edge Detection in Hyperspectral Images. Remote Sensing, 2017, 9, 592.	1.8	23
115	A Sparse Representation Method for <italic>a Priori</italic> Target Signature Optimization in Hyperspectral Target Detection. IEEE Access, 2018, 6, 3408-3424.	2.6	23
116	Self-spectral learning with GAN based spectralâ€“spatial target detection for hyperspectral image. Neural Networks, 2021, 142, 375-387.	3.3	23
117	Hyperspectral Imagery Clustering With Neighborhood Constraints. IEEE Geoscience and Remote Sensing Letters, 2013, 10, 588-592.	1.4	22
118	CRF learning with CNN features for hyperspectral image segmentation. , 2016, , .		22
119	Stratified spectral mixture analysis of medium resolution imagery for impervious surface mapping. International Journal of Applied Earth Observation and Geoinformation, 2017, 60, 38-48.	1.4	22
120	3-D Gabor Convolutional Neural Network for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	2.7	22
121	DMMOGSA: Diversity-enhanced and memory-based multi-objective gravitational search algorithm. Information Sciences, 2016, 363, 52-71.	4.0	21
122	Hyperspectral Image Unmixing Based on Fast Kernel Archetypal Analysis. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 331-346.	2.3	21
123	Hierarchical fusion of optical and dual-polarized SAR on impervious surface mapping at city scale. ISPRS Journal of Photogrammetry and Remote Sensing, 2022, 184, 264-278.	4.9	21
124	Spatially Constrained Multiple Endmember Spectral Mixture Analysis for Quantifying Subpixel Urban Impervious Surfaces. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 1976-1984.	2.3	20
125	A HYBRID GENETIC ALGORITHM AND GRAVITATIONAL SEARCH ALGORITHM FOR GLOBAL OPTIMIZATION. Neural Network World, 2015, 25, 53-73.	0.5	20
126	Latent fingerprint segmentation based on convolutional neural networks. , 2017, , .		20

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127	Incorporating Negative Sample Training for Ship Detection Based on Deep Learning. Sensors, 2019, 19, 684.	2.1	20
128	Joint Spatialâ€“Spectral Attention Network for Hyperspectral Image Classification. IEEE Geoscience and Remote Sensing Letters, 2021, 18, 1816-1820.	1.4	20
129	Remote Sensing Image Scene Classification Using Multiscale Feature Fusion Covariance Network With Octave Convolution. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	2.7	20
130	Superresolution Reconstruction of Multispectral Data for Improved Image Classification. IEEE Geoscience and Remote Sensing Letters, 2009, 6, 689-693.	1.4	18
131	Super pixel based remote sensing image classification with histogram descriptors on spectral and spatial data. , 2012, , .		18
132	Coastal Wetland Mapping with Sentinel-2 MSI Imagery Based on Gravitational Optimized Multilayer Perceptron and Morphological Attribute Profiles. Remote Sensing, 2019, 11, 952.	1.8	18
133	Moving Vehicle Detection for Remote Sensing Video Surveillance with Nonstationary Satellite Platform. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, PP, 1-1.	9.7	18
134	Sparse Analysis Based on Generalized Gaussian Model for Spectrum Recovery With Compressed Sensing Theory. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 2752-2759.	2.3	17
135	Integrating remotely sensed data, GIS and expert knowledge to update object-based land use/land cover information. International Journal of Remote Sensing, 2012, 33, 905-921.	1.3	16
136	Superpixel-based Markov random field for classification of hyperspectral images. , 2013, , .		16
137	Synergistic Use of Optical and Dual-Polarized SAR Data With Multiple Kernel Learning for Urban Impervious Surface Mapping. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 223-236.	2.3	16
138	Online Structured Sparsity-Based Moving-Object Detection From Satellite Videos. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 6420-6433.	2.7	16
139	Gray world based color correction and intensity preservation for image enhancement. , 2011, , .		15
140	Modified SIFT for multi-modal remote sensing image registration. , 2012, , .		15
141	Nonlinear Elastic Model for Flexible Prediction of Remotely Sensed Multitemporal Images. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 1005-1009.	1.4	15
142	A Novel Unsupervised Sample Collection Method for Urban Land-Cover Mapping Using Landsat Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 3933-3951.	2.7	15
143	Hyperspectral band selection using crossoverâ€based gravitational search algorithm. IET Image Processing, 2019, 13, 280-286.	1.4	15
144	Spectral mapping with adversarial learning for unsupervised hyperspectral change detection. Neurocomputing, 2021, 465, 71-83.	3.5	15

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145	Efficient transmission and classification of hyperspectral image data. IEEE Transactions on Geoscience and Remote Sensing, 2003, 41, 1129-1131.	2.7	14
146	Improved feature selection based on a mutual information measure for hyperspectral image classification. , 2012, , .		14
147	A New Target Detector for Hyperspectral Data Using Cointegration Theory. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2013, 6, 638-643.	2.3	14
148	Assessment of Multiple Scattering in the Reflectance of Semiarid Shrublands. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 4910-4921.	2.7	14
149	Clustering of Remote Sensing Imagery Using a Social Recognition-Based Multi-objective Gravitational Search Algorithm. Cognitive Computation, 2019, 11, 789-798.	3.6	14
150	Local Region Proposing for Frame-Based Vehicle Detection in Satellite Videos. Remote Sensing, 2019, 11, 2372.	1.8	14
151	Unsupervised spectral mapping and feature selection for hyperspectral anomaly detection. Neural Networks, 2020, 132, 144-154.	3.3	14
152	A Novel Spectral-Spatial Singular Spectrum Analysis Technique for Near Real-Time In Situ Feature Extraction in Hyperspectral Imaging. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 2214-2225.	2.3	14
153	Gradient Feature-Oriented 3-D Domain Adaptation for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-17.	2.7	14
154	SC-PNN: Saliency Cascade Convolutional Neural Network for Pansharpening. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 9697-9715.	2.7	14
155	Complete and accurate data correction for seamless mosaicking of airborne hyperspectral images: A case study at a mining site in Inner Mongolia, China. ISPRS Journal of Photogrammetry and Remote Sensing, 2020, 165, 1-15.	4.9	14
156	Combined multiscale segmentation convolutional neural network for rapid damage mapping from postearthquake very high-resolution images. Journal of Applied Remote Sensing, 2019, 13, 1.	0.6	14
157	Progressive Two-Class Decision Classifier for Optimization of Class Discriminations. Remote Sensing of Environment, 1998, 63, 289-297.	4.6	13
158	Registration of multi-sensor remote sensing imagery by gradient-based optimization of cross-cumulative residual entropy. Proceedings of SPIE, 2008, , .	0.8	13
159	Sampling approaches for one-pass land-use/land-cover change mapping. International Journal of Remote Sensing, 2010, 31, 1543-1554.	1.3	13
160	Feature interaction in subspace clustering using the Choquet integral. Pattern Recognition, 2012, 45, 2645-2660.	5.1	13
161	Segment-Oriented Depiction and Analysis for Hyperspectral Image Data. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 3982-3996.	2.7	13
162	Multi-modal Registration of SAR and Optical Satellite Images. , 2009, , .		12

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163	Controlled spectral unmixing using extended Support Vector Machines. , 2010, , .		12
164	A Multispectral and Multiangle 3-D Convolutional Neural Network for the Classification of ZY-3 Satellite Images Over Urban Areas. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 10266-10285.	2.7	12
165	A Multiscale Superpixel-Level Group Clustering Framework for Hyperspectral Band Selection. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-18.	2.7	12
166	Band Dual Density Discrimination Analysis for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 7257-7271.	2.7	11
167	Improved Joint Sparse Models for Hyperspectral Image Classification Based on a Novel Neighbour Selection Strategy. Remote Sensing, 2018, 10, 905.	1.8	11
168	A Deformable Attention Network for High-Resolution Remote Sensing Images Semantic Segmentation. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	2.7	11
169	Class-guided coupled dictionary learning for multispectral-hyperspectral remote sensing image collaborative classification. Science China Technological Sciences, 2022, 65, 744-758.	2.0	11
170	New Improvements in Parallel Implementation of N-FINDR Algorithm. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 3648-3659.	2.7	10
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