Qian Du

List of Publications by Year
in descending order

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485	23,931	8732 75	10127 140
papers	citations	h-index	g-index

487	487	487	9741
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Hyperspectral Unmixing Overview: Geometrical, Statistical, and Sparse Regression-Based Approaches. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2012, 5, 354-379.	2.3	2,181
2	Estimation of Number of Spectrally Distinct Signal Sources in Hyperspectral Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2004, 42, 608-619.	2.7	810
3	More Diverse Means Better: Multimodal Deep Learning Meets Remote-Sensing Imagery Classification. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 4340-4354.	2.7	781
4	Hyperspectral Image Classification Using Deep Pixel-Pair Features. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 844-853.	2.7	648
5	Local Binary Patterns and Extreme Learning Machine for Hyperspectral Imagery Classification. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 3681-3693.	2.7	565
6	A joint band prioritization and band-decorrelation approach to band selection for hyperspectral image classification. IEEE Transactions on Geoscience and Remote Sensing, 1999, 37, 2631-2641.	2.7	508
7	Collaborative Representation for Hyperspectral Anomaly Detection. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 1463-1474.	2.7	484
8	Diverse Region-Based CNN for Hyperspectral Image Classification. IEEE Transactions on Image Processing, 2018, 27, 2623-2634.	6.0	424
9	An improved box-counting method for image fractal dimension estimation. Pattern Recognition, 2009, 42, 2460-2469.	5.1	405
10	GETNET: A General End-to-End 2-D CNN Framework for Hyperspectral Image Change Detection. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 3-13.	2.7	392
11	Multisource Remote Sensing Data Classification Based on Convolutional Neural Network. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 937-949.	2.7	378
12	Hyperspectral Image Compression Using JPEG2000 and Principal Component Analysis. IEEE Geoscience and Remote Sensing Letters, 2007, 4, 201-205.	1.4	359
13	Similarity-Based Unsupervised Band Selection for Hyperspectral Image Analysis. IEEE Geoscience and Remote Sensing Letters, 2008, 5, 564-568.	1.4	353
14	Hyperspectral and LiDAR Data Fusion: Outcome of the 2013 GRSS Data Fusion Contest. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 2405-2418.	2.3	349
15	Hyperspectral Band Selection: A Review. IEEE Geoscience and Remote Sensing Magazine, 2019, 7, 118-139.	4.9	270
16	An Efficient Method for Supervised Hyperspectral Band Selection. IEEE Geoscience and Remote Sensing Letters, 2011, 8, 138-142.	1.4	238
17	Learning Sensor-Specific Spatial-Spectral Features of Hyperspectral Images via Convolutional Neural Networks. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 4520-4533.	2.7	230
18	Unsupervised Spatialâ€“Spectral Feature Learning by 3D Convolutional Autoencoder for Hyperspectral Classification. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 6808-6820.	2.7	216

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19	Transferred Deep Learning for Anomaly Detection in Hyperspectral Imagery. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 597-601.	1.4	214
20	Hyperspectral Image Spatial Super-Resolution via 3D Full Convolutional Neural Network. Remote Sensing, 2017, 9, 1139.	1.8	192
21	Combined sparse and collaborative representation for hyperspectral target detection. Pattern Recognition, 2015, 48, 3904-3916.	5.1	191
22	High Performance Computing for Hyperspectral Remote Sensing. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2011, 4, 528-544.	2.3	185
23	Feature Extraction for Classification of Hyperspectral and LiDAR Data Using Patch-to-Patch CNN. IEEE Transactions on Cybernetics, 2020, 50, 100-111.	6.2	185
24	Gabor-Filtering-Based Nearest Regularized Subspace for Hyperspectral Image Classification. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 1012-1022.	2.3	172
25	On the Performance Evaluation of Pan-Sharpening Techniques. IEEE Geoscience and Remote Sensing Letters, 2007, 4, 518-522.	1.4	155
26	Joint Within-Class Collaborative Representation for Hyperspectral Image Classification. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 2200-2208.	2.3	154
27	Optimized Hyperspectral Band Selection Using Particle Swarm Optimization. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 2659-2670.	2.3	154
28	Hyperspectral Anomaly Detection by Fractional Fourier Entropy. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 4920-4929.	2.3	152
29	Fusing Local and Global Features for High-Resolution Scene Classification. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 2889-2901.	2.3	151
30	Interference and noise-adjusted principal components analysis. IEEE Transactions on Geoscience and Remote Sensing, 1999, 37, 2387-2396.	2.7	145
31	Scene classification using local and global features with collaborative representation fusion. Information Sciences, 2016, 348, 209-226.	4.0	141
32	Joint Classification of Hyperspectral and LiDAR Data Using Hierarchical Random Walk and Deep CNN Architecture. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 7355-7370.	2.7	140
33	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
34	Data Augmentation for Hyperspectral Image Classification With Deep CNN. IEEE Geoscience and Remote Sensing Letters, 2019, 16, 593-597.	1.4	129
35	A linear constrained distance-based discriminant analysis for hyperspectral image classification. Pattern Recognition, 2001, 34, 361-373.	5.1	128
36	Remote Sensing Image Scene Classification Using Multi-Scale Completed Local Binary Patterns and Fisher Vectors. Remote Sensing, 2016, 8, 483.	1.8	126

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37	Graph-Regularized Fast and Robust Principal Component Analysis for Hyperspectral Band Selection. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 3185-3195.	2.7	125
38	Classification of Hyperspectral Imagery Using a New Fully Convolutional Neural Network. IEEE Geoscience and Remote Sensing Letters, 2018, 15, 292-296.	1.4	124
39	Modified Fisher's Linear Discriminant Analysis for Hyperspectral Imagery. IEEE Geoscience and Remote Sensing Letters, 2007, 4, 503-507.	1.4	119
40	Spatialâ€“Spectral Feature Extraction via Deep ConvLSTM Neural Networks for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 4237-4250.	2.7	116
41	A comparative study for orthogonal subspace projection and constrained energy minimization. IEEE Transactions on Geoscience and Remote Sensing, 2003, 41, 1525-1529.	2.7	115
42	Particle Swarm Optimization-Based Hyperspectral Dimensionality Reduction for Urban Land Cover Classification. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2012, 5, 544-554.	2.3	115
43	Sparse Graph-Based Discriminant Analysis for Hyperspectral Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 3872-3884.	2.7	113
44	Firefly-Algorithm-Inspired Framework With Band Selection and Extreme Learning Machine for Hyperspectral Image Classification. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 309-320.	2.3	113
45	Estimation of the spatial distribution of heavy metal in agricultural soils using airborne hyperspectral imaging and random forest. Journal of Hazardous Materials, 2020, 382, 120987.	6.5	113
46	Discriminative Reconstruction Constrained Generative Adversarial Network for Hyperspectral Anomaly Detection. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 4666-4679.	2.7	112
47	Low-Rank and Sparse Decomposition With Mixture of Gaussian for Hyperspectral Anomaly Detection. IEEE Transactions on Cybernetics, 2021, 51, 4363-4372.	6.2	109
48	Caps-TripleGAN: GAN-Assisted CapsNet for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 7232-7245.	2.7	106
49	Hyperspectral Anomaly Detection: A survey. IEEE Geoscience and Remote Sensing Magazine, 2022, 10, 64-90.	4.9	106
50	A survey on representation-based classification and detection in hyperspectral remote sensing imagery. Pattern Recognition Letters, 2016, 83, 115-123.	2.6	104
51	Low-Complexity Principal Component Analysis for Hyperspectral Image Compression. International Journal of High Performance Computing Applications, 2008, 22, 438-448.	2.4	103
52	Collaborative-Representation-Based Nearest Neighbor Classifier for Hyperspectral Imagery. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 389-393.	1.4	102
53	Self-Paced Joint Sparse Representation for the Classification of Hyperspectral Images. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 1183-1194.	2.7	101
54	Sparse and Low-Rank Graph for Discriminant Analysis of Hyperspectral Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 4094-4105.	2.7	100

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55	Hyperspectral Unmixing Using Sparsity-Constrained Deep Nonnegative Matrix Factorization With Total Variation. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 6245-6257.	2.7	99
56	Deep Learning for Unmanned Aerial Vehicle-Based Object Detection and Tracking: A survey. IEEE Geoscience and Remote Sensing Magazine, 2022, 10, 91-124.	4.9	99
57	Hyperspectral and LiDAR Data Classification Based on Structural Optimization Transmission. IEEE Transactions on Cybernetics, 2023, 53, 3153-3164.	6.2	97
58	Hyperspectral Band Selection Using Improved Firefly Algorithm. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 68-72.	1.4	95
59	Unsupervised Hyperspectral Band Selection Using Graphics Processing Units. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2011, 4, 660-668.	2.3	94
60	Using High-Resolution Airborne and Satellite Imagery to Assess Crop Growth and Yield Variability for Precision Agriculture. Proceedings of the IEEE, 2013, 101, 582-592.	16.4	94
61	Low-Rank and Sparse Representation for Hyperspectral Image Processing: A review. IEEE Geoscience and Remote Sensing Magazine, 2022, 10, 10-43.	4.9	94
62	Estimating the distribution trend of soil heavy metals in mining area from HyMap airborne hyperspectral imagery based on ensemble learning. Journal of Hazardous Materials, 2021, 401, 123288.	6.5	93
63	Anomaly Detection and Reconstruction From Random Projections. IEEE Transactions on Image Processing, 2012, 21, 184-195.	6.0	92
64	Ensemble Learning for Hyperspectral Image Classification Using Tangent Collaborative Representation. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 3778-3790.	2.7	92
65	End-member extraction for hyperspectral image analysis. Applied Optics, 2008, 47, F77.	2.1	91
66	Semisupervised Band Clustering for Dimensionality Reduction of Hyperspectral Imagery. IEEE Geoscience and Remote Sensing Letters, 2011, 8, 1135-1139.	1.4	90
67	Graph Information Aggregation Cross-Domain Few-Shot Learning for Hyperspectral Image Classification. IEEE Transactions on Neural Networks and Learning Systems, 2024, 35, 1912-1925.	7.2	89
68	Object Tracking in Satellite Videos by Fusing the Kernel Correlation Filter and the Three-Frame-Difference Algorithm. IEEE Geoscience and Remote Sensing Letters, 2018, 15, 168-172.	1.4	86
69	Prior-Based Tensor Approximation for Anomaly Detection in Hyperspectral Imagery. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 1037-1050.	7.2	84
70	Deep Cross-Domain Few-Shot Learning for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-18.	2.7	84
71	Fast and Latent Low-Rank Subspace Clustering for Hyperspectral Band Selection. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 3906-3915.	2.7	81
72	A Comparative Study on Linear Regression-Based Noise Estimation for Hyperspectral Imagery. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2013, 6, 488-498.	2.3	80

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73	Cross-Scene Hyperspectral Image Classification With Discriminative Cooperative Alignment. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 9646-9660.	2.7	80
74	Hyperspectral Classification Based on Texture Feature Enhancement and Deep Belief Networks. Remote Sensing, 2018, 10, 396.	1.8	78
75	Image Registration With Fourier-Based Image Correlation: A Comprehensive Review of Developments and Applications. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 4062-4081.	2.3	77
76	Hyperspectral Pansharpening With Deep Priors. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 1529-1543.	7.2	77
77	Spatial and Spectral Joint Super-Resolution Using Convolutional Neural Network. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 4590-4603.	2.7	73
78	Hyperspectral Image Classification Using Band Selection and Morphological Profiles. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 40-48.	2.3	71
79	Robust Joint Sparse Representation Based on Maximum Correntropy Criterion for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 7152-7164.	2.7	71
80	Autoencoder and Adversarial-Learning-Based Semisupervised Background Estimation for Hyperspectral Anomaly Detection. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 5416-5427.	2.7	68
81	Information Fusion for Classification of Hyperspectral and LiDAR Data Using IP-CNN. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-12.	2.7	67
82	Discriminative Transfer Joint Matching for Domain Adaptation in Hyperspectral Image Classification. IEEE Geoscience and Remote Sensing Letters, 2019, 16, 972-976.	1.4	66
83	HTD-Net: A Deep Convolutional Neural Network for Target Detection in Hyperspectral Imagery. Remote Sensing, 2020, 12, 1489.	1.8	66
84	Color Display for Hyperspectral Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 1858-1866.	2.7	65
85	Multiscale Morphological Compressed Change Vector Analysis for Unsupervised Multiple Change Detection. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 4124-4137.	2.3	65
86	Automatic target recognition for hyperspectral imagery using high-order statistics. IEEE Transactions on Aerospace and Electronic Systems, 2006, 42, 1372-1385.	2.6	64
87	Multifeature Dictionary Learning for Collaborative Representation Classification of Hyperspectral Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 2467-2484.	2.7	64
88	Hyperspectral Anomaly Detection Using Collaborative Representation With Outlier Removal. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 5029-5038.	2.3	64
89	Dimensionality Reduction of Hyperspectral Image with Graph-Based Discriminant Analysis Considering Spectral Similarity. Remote Sensing, 2017, 9, 323.	1.8	63
90	Real-time constrained linear discriminant analysis to target detection and classification in hyperspectral imagery. Pattern Recognition, 2003, 36, 1-12.	5.1	62

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91	Collaborative Graph-Based Discriminant Analysis for Hyperspectral Imagery. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 2688-2696.	2.3	62
92	Discriminant Analysis-Based Dimension Reduction for Hyperspectral Image Classification: A Survey of the Most Recent Advances and an Experimental Comparison of Different Techniques. IEEE Geoscience and Remote Sensing Magazine, 2018, 6, 15-34.	4.9	62
93	Hyperspectral Image Classification by Fusing Collaborative and Sparse Representations. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 4178-4187.	2.3	61
94	Anomaly Detection for Hyperspectral Imagery Based on the Regularized Subspace Method and Collaborative Representation. Remote Sensing, 2019, 11, 1318.	1.8	60
95	Hyperspectral Image Super-Resolution by Band Attention Through Adversarial Learning. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 4304-4318.	2.7	60
96	ABNet: Adaptive Balanced Network for Multiscale Object Detection in Remote Sensing Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	2.7	59
97	A³ CLNN: Spatial, Spectral and Multiscale Attention ConvLSTM Neural Network for Multisource Remote Sensing Data Classification. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 747-761.	7.2	58
98	Nonlinear Spectral Mixture Analysis for Hyperspectral Imagery in an Unknown Environment. IEEE Geoscience and Remote Sensing Letters, 2010, 7, 836-840.	1.4	56
99	An efficient semi-supervised classification approach for hyperspectral imagery. ISPRS Journal of Photogrammetry and Remote Sensing, 2014, 97, 36-45.	4.9	56
100	Modified Tensor Locality Preserving Projection for Dimensionality Reduction of Hyperspectral Images. IEEE Geoscience and Remote Sensing Letters, 2018, 15, 277-281.	1.4	56
101	Remote Sensing Big Data: Theory, Methods and Applications. Remote Sensing, 2018, 10, 711.	1.8	56
102	Low rank and collaborative representation for hyperspectral anomaly detection via robust dictionary construction. ISPRS Journal of Photogrammetry and Remote Sensing, 2020, 169, 195-211.	4.9	56
103	Robust Capsule Network Based on Maximum Correntropy Criterion for Hyperspectral Image Classification. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 738-751.	2.3	56
104	Hyperspectral and Multispectral Classification for Coastal Wetland Using Depthwise Feature Interaction Network. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	2.7	56
105	Hyperspectral Image Classification Using Weighted Joint Collaborative Representation. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 1209-1213.	1.4	55
106	Fast and Robust Self-Representation Method for Hyperspectral Band Selection. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 5087-5098.	2.3	55
107	Kernel low-rank representation with elastic net for China coastal wetland land cover classification using GF-5 hyperspectral imagery. ISPRS Journal of Photogrammetry and Remote Sensing, 2021, 171, 238-252.	4.9	55
108	Hyperspectral Image Classification Using Attention-Based Bidirectional Long Short-Term Memory Network. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-12.	2.7	55

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109	Adaptive DropBlock-Enhanced Generative Adversarial Networks for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 5040-5053.	2.7	54
110	Hyperspectral Image Classification With Imbalanced Data Based on Orthogonal Complement Subspace Projection. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 3838-3851.	2.7	53
111	Random forestâ€“based estimation of heavy metal concentration in agricultural soils with hyperspectral sensor data. Environmental Monitoring and Assessment, 2019, 191, 446.	1.3	53
112	Semisupervised Spectral Learning With Generative Adversarial Network for Hyperspectral Anomaly Detection. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 5224-5236.	2.7	53
113	Adjusted Spectral Matched Filter for Target Detection in Hyperspectral Imagery. Remote Sensing, 2015, 7, 6611-6634.	1.8	52
114	Efficient Deep Learning of Nonlocal Features for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 6029-6043.	2.7	51
115	Self-Paced Nonnegative Matrix Factorization for Hyperspectral Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 1501-1515.	2.7	50
116	Fast real-time onboard processing of hyperspectral imagery for detection and classification. Journal of Real-Time Image Processing, 2009, 4, 273-286.	2.2	49
117	Kernel Collaborative Representation With Local Correlation Features for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 1230-1241.	2.7	49
118	Vehicle detection of multi-source remote sensing data using active fine-tuning network. ISPRS Journal of Photogrammetry and Remote Sensing, 2020, 167, 39-53.	4.9	48
119	Deep Multilayer Fusion Dense Network for Hyperspectral Image Classification. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 1258-1270.	2.3	48
120	Weakly Supervised Low-Rank Representation for Hyperspectral Anomaly Detection. IEEE Transactions on Cybernetics, 2021, 51, 3889-3900.	6.2	48
121	Asymmetric Feature Fusion Network for Hyperspectral and SAR Image Classification. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 8057-8070.	7.2	48
122	A signal-decomposed and interference-annihilated approach to hyperspectral target detection. IEEE Transactions on Geoscience and Remote Sensing, 2004, 42, 892-906.	2.7	46
123	A Hybrid Approach for Building Extraction From Spaceborne Multi-Angular Optical Imagery. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2012, 5, 89-100.	2.3	46
124	Segmented Principal Component Analysis for Parallel Compression of Hyperspectral Imagery. IEEE Geoscience and Remote Sensing Letters, 2009, 6, 713-717.	1.4	45
125	Decision Fusion on Supervised and Unsupervised Classifiers for Hyperspectral Imagery. IEEE Geoscience and Remote Sensing Letters, 2010, 7, 875-879.	1.4	44
126	Hyperspectral Image Visualization Using Band Selection. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 2647-2658.	2.3	44

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127	Laplacian Regularized Collaborative Graph for Discriminant Analysis of Hyperspectral Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 7066-7076.	2.7	44
128	DDLPS: Detail-Based Deep Laplacian Pansharpening for Hyperspectral Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 8011-8025.	2.7	44
129	Lateral-Slice Sparse Tensor Robust Principal Component Analysis for Hyperspectral Image Classification. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 107-111.	1.4	44
130	HPGAN: Hyperspectral Pansharpening Using 3-D Generative Adversarial Networks. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 463-477.	2.7	44
131	PSO-EM: A Hyperspectral Unmixing Algorithm Based On Normal Compositional Model. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 7782-7792.	2.7	43
132	Integrating spectral and spatial information into deep convolutional Neural Networks for hyperspectral classification. , 2016, , .		43
133	Hyperspectral Dimensionality Reduction by Tensor Sparse and Low-Rank Graph-Based Discriminant Analysis. Remote Sensing, 2017, 9, 452.	1.8	43
134	Unsupervised Change Detection in Multispectral Remote Sensing Images via Spectral-Spatial Band Expansion. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 3578-3587.	2.3	43
135	Class-Wise Distribution Adaptation for Unsupervised Classification of Hyperspectral Remote Sensing Images. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 508-521.	2.7	43
136	Hyperspectral and SAR Image Classification via Multiscale Interactive Fusion Network. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 10823-10837.	7.2	43
137	GPU Parallel Implementation of Support Vector Machines for Hyperspectral Image Classification. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 4647-4656.	2.3	42
138	Background Learning Based on Target Suppression Constraint for Hyperspectral Target Detection. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 5887-5897.	2.3	42
139	A Parallel Gaussianâ€“Bernoulli Restricted Boltzmann Machine for Mining Area Classification With Hyperspectral Imagery. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 627-636.	2.3	41
140	Correntropy-Based Sparse Spectral Clustering for Hyperspectral Band Selection. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 484-488.	1.4	41
141	Automated Target Detection and Discrimination Using Constrained Kurtosis Maximization. IEEE Geoscience and Remote Sensing Letters, 2008, 5, 38-42.	1.4	40
142	A Randomized Subspace Learning Based Anomaly Detector for Hyperspectral Imagery. Remote Sensing, 2018, 10, 417.	1.8	40
143	Generative Dual-Adversarial Network With Spectral Fidelity and Spatial Enhancement for Hyperspectral Pansharpening. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 7303-7317.	7.2	39
144	Simultaneous Spatial and Spectral Low-Rank Representation of Hyperspectral Images for Classification. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 2872-2886.	2.7	38

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145	Particle Swarm Optimization-Based Band Selection for Hyperspectral Target Detection. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 554-558.	1.4	37
146	Anomaly Detection in Hyperspectral Imagery Based on Low-Rank Representation Incorporating a Spatial Constraint. Remote Sensing, 2019, 11, 1578.	1.8	37
147	Structure-Aware Collaborative Representation for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 7246-7261.	2.7	37
148	Deep nonsmooth nonnegative matrix factorization network with semi-supervised learning for SAR image change detection. ISPRS Journal of Photogrammetry and Remote Sensing, 2020, 160, 167-179.	4.9	37
149	Characterization of Background-Anomaly Separability With Generative Adversarial Network for Hyperspectral Anomaly Detection. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 6017-6028.	2.7	37
150	Band Selection-Based Dimensionality Reduction for Change Detection in Multi-Temporal Hyperspectral Images. Remote Sensing, 2017, 9, 1008.	1.8	36
151	Supervised Sub-Pixel Mapping for Change Detection from Remotely Sensed Images with Different Resolutions. Remote Sensing, 2017, 9, 284.	1.8	36
152	SRUN: Spectral Regularized Unsupervised Networks for Hyperspectral Target Detection. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 1463-1474.	2.7	36
153	Fusing China GF-5 Hyperspectral Data with GF-1, GF-2 and Sentinel-2A Multispectral Data: Which Methods Should Be Used?. Remote Sensing, 2020, 12, 882.	1.8	36
154	Three-Order Tucker Decomposition and Reconstruction Detector for Unsupervised Hyperspectral Change Detection. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 6194-6205.	2.3	36
155	Linear mixture analysis-based compression for hyperspectral image analysis. IEEE Transactions on Geoscience and Remote Sensing, 2004, 42, 875-891.	2.7	35
156	An Operational Approach to PCA+JPEG2000 Compression of Hyperspectral Imagery. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 2237-2245.	2.3	35
157	Transferred deep learning for hyperspectral target detection. , 2017, , .		35
158	Unsupervised Hyperspectral Remote Sensing Image Clustering Based on Adaptive Density. IEEE Geoscience and Remote Sensing Letters, 2018, 15, 632-636.	1.4	35
159	Deep Latent Spectral Representation Learning-Based Hyperspectral Band Selection for Target Detection. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 2015-2026.	2.7	35
160	Enhanced TabNet: Attentive Interpretable Tabular Learning for Hyperspectral Image Classification. Remote Sensing, 2022, 14, 716.	1.8	35
161	Robust Hyperspectral Image Classification by Multi-Layer Spatial-Spectral Sparse Representations. Remote Sensing, 2016, 8, 985.	1.8	34
162	CVA²E: A Conditional Variational Autoencoder With an Adversarial Training Process for Hyperspectral Imagery Classification. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 5676-5692.	2.7	34

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