

Pedram Ghamisi

List of Publications by Year in descending order

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155
papers

15,750
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23567

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161
docs citations

161
times ranked

8982
citing authors

#	ARTICLE	IF	CITATIONS
1	The application of ResU-net and OBIA for landslide detection from multi-temporal Sentinel-2 images. Big Earth Data, 2023, 7, 961-985.	4.4	26
2	Adaptive Spatial Pyramid Constraint for Hyperspectral Image Classification With Limited Training Samples. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	6.3	22
3	UnDIP: Hyperspectral Unmixing Using Deep Image Prior. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	6.3	30
4	Edge-Preserving Filtering-Based Dehazing for Remote Sensing Images. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	10
5	Dual Graph Convolutional Network for Hyperspectral Image Classification With Limited Training Samples. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-18.	6.3	20
6	Self-Supervised Learning With Adaptive Distillation for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	6.3	62
7	Modality Translation in Remote Sensing Time Series. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	6.3	15
8	Complementary Learning-Based Scene Classification of Remote Sensing Images With Noisy Labels. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	2
9	NFANet: A Novel Method for Weakly Supervised Water Extraction From High-Resolution Remote-Sensing Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	6.3	20
10	A Google Earth Engine Approach for Wildfire Susceptibility Prediction Fusion with Remote Sensing Data of Different Spatial Resolutions. Remote Sensing, 2022, 14, 672.	4.0	35
11	Deep Learning and Earth Observation to Support the Sustainable Development Goals: Current approaches, open challenges, and future opportunities. IEEE Geoscience and Remote Sensing Magazine, 2022, 10, 172-200.	9.6	43
12	OptFus: Optical Sensor Fusion for the Classification of Multisource Data: Application to Mineralogical Mapping. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	1
13	Image Restoration for Remote Sensing: Overview and toolbox. IEEE Geoscience and Remote Sensing Magazine, 2022, 10, 201-230.	9.6	47
14	Asymmetric Hash Code Learning for Remote Sensing Image Retrieval. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	6.3	22
15	Unsupervised Data Fusion With Deeper Perspective: A Novel Multisensor Deep Clustering Algorithm. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 284-296.	4.9	11
16	The Outcome of the 2021 IEEE GRSS Data Fusion Contestâ€”Track MSD: Multitemporal Semantic Change Detection. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 1643-1655.	4.9	13
17	Hypergraph Convolutional Subspace Clustering With Multihop Aggregation for Hyperspectral Image. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 676-686.	4.9	2
18	Universal Adversarial Examples in Remote Sensing: Methodology and Benchmark. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	6.3	21

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19	Optical Remote Sensing Image Understanding With Weak Supervision: Concepts, methods, and perspectives. IEEE Geoscience and Remote Sensing Magazine, 2022, 10, 250-269.	9.6	24
20	Evaluation of Different Landslide Susceptibility Models for a Local Scale in the Chitral District, Northern Pakistan. Sensors, 2022, 22, 3107.	3.8	18
21	Sparsity Regularized Deep Subspace Clustering for Multicriterion-Based Hyperspectral Band Selection. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 4264-4278.	4.9	6
22	Leveraging OpenStreetMap and Multimodal Remote Sensing Data with Joint Deep Learning for Wastewater Treatment Plants Detection. International Journal of Applied Earth Observation and Geoinformation, 2022, 110, 102804.	1.9	4
23	Superpixel Contracted Neighborhood Contrastive Subspace Clustering Network for Hyperspectral Images. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	6.3	10
24	Mixed Noise Removal for Hyperspectral Image With $\{l_{0}\}$ - $\{l_{1-2}\}$ SSTV Regularization. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 5371-5387.	4.9	6
25	Time Series of Remote Sensing Data for Interaction Analysis of the Vegetation Coverage and Dust Activity in the Middle East. Remote Sensing, 2022, 14, 2963.	4.0	6
26	Transferring CNN With Adaptive Learning for Remote Sensing Scene Classification. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-18.	6.3	28
27	U-IMG2DSM: Unpaired Simulation of Digital Surface Models With Generative Adversarial Networks. IEEE Geoscience and Remote Sensing Letters, 2021, 18, 1288-1292.	3.1	15
28	Classification of Hyperspectral Images via Multitask Generative Adversarial Networks. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 1424-1436.	6.3	97
29	Multiscale Densely-Connected Fusion Networks for Hyperspectral Images Classification. IEEE Transactions on Circuits and Systems for Video Technology, 2021, 31, 246-259.	8.3	53
30	Hyperspectral Image Classification With Attention-Aided CNNs. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 2281-2293.	6.3	200
31	Feature extraction for hyperspectral mineral domain mapping: A test of conventional and innovative methods. Remote Sensing of Environment, 2021, 252, 112129.	11.0	29
32	Global Land-Cover Mapping With Weak Supervision: Outcome of the 2020 IEEE GRSS Data Fusion Contest. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 3185-3199.	4.9	32
33	2021 Data Fusion Contest: Geospatial Artificial Intelligence for Social Good [Technical Committees]. IEEE Geoscience and Remote Sensing Magazine, 2021, 9, 287-C3.	9.6	12
34	A Multi-Sensor Subspace-Based Clustering Algorithm Using RGB and Hyperspectral Data. , 2021, , .		0
35	Remote Sensing Image Scene Classification via Label Augmentation and Intra-Class Constraint. Remote Sensing, 2021, 13, 2566.	4.0	15
36	A Special Issue on Recent Progress in Developing Artificial Intelligence and Machine Learning Methodologies [From the Guest Editors]. IEEE Geoscience and Remote Sensing Magazine, 2021, 9, 7-128.	9.6	2

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37	A comprehensive transferability evaluation of U-Net and ResU-Net for landslide detection from Sentinel-2 data (case study areas from Taiwan, China, and Japan). Scientific Reports, 2021, 11, 14629.	3.3	65
38	Fusion of Dual Spatial Information for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 7726-7738.	6.3	87
39	The New Working Groups of the GRSS Technical Committee on Image Analysis and Data Fusion [Technical Committees]. IEEE Geoscience and Remote Sensing Magazine, 2021, 9, 165-166.	9.6	0
40	The Potential of Machine Learning for a More Responsible Sourcing of Critical Raw Materials. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 8971-8988.	4.9	16
41	Spectral Unmixing Using Deep Convolutional Encoder-Decoder. , 2021, , .		0
42	When is the Right Time to Apply Denoising?. , 2021, , .		0
43	Boosting Hyperspectral Image Unmixing Using Denoising: Four Scenarios. , 2021, , .		0
44	The Outcome of the 2021 IEEE GRSS Data Fusion Contest - Track DSE: Detection of Settlements Without Electricity. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 12375-12385.	4.9	8
45	Unsupervised Deep Learning for Landslide Detection from Multispectral Sentinel-2 Imagery. Remote Sensing, 2021, 13, 4698.	4.0	23
46	Report on the 2021 IEEE GRSS Data Fusion Contestâ€™Geospatial Artificial Intelligence for Social Good [Technical Committees]. IEEE Geoscience and Remote Sensing Magazine, 2021, 9, 274-277.	9.6	0
47	Spatial hazard assessment of the PM10 using machine learning models in Barcelona, Spain. Science of the Total Environment, 2020, 701, 134474.	8.0	91
48	Hyperspectral Mixed Gaussian and Sparse Noise Reduction. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 474-478.	3.1	33
49	Multichannel Pulse-Coupled Neural Network-Based Hyperspectral Image Visualization. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 2444-2456.	6.3	34
50	Heterogeneous Transfer Learning for Hyperspectral Image Classification Based on Convolutional Neural Network. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 3246-3263.	6.3	115
51	Support Vector Machine Versus Random Forest for Remote Sensing Image Classification: A Meta-Analysis and Systematic Review. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 6308-6325.	4.9	401
52	Comprehensive Review of Deep Reinforcement Learning Methods and Applications in Economics. Mathematics, 2020, 8, 1640.	2.2	87
53	A Multi-Sensor Fusion Framework Based on Coupled Residual Convolutional Neural Networks. Remote Sensing, 2020, 12, 2067.	4.0	17
54	Multiple Optical Sensor Fusion for Mineral Mapping of Core Samples. Sensors, 2020, 20, 3766.	3.8	5

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55	Data Science in Economics: Comprehensive Review of Advanced Machine Learning and Deep Learning Methods. <i>Mathematics</i> , 2020, 8, 1799.	2.2	82
56	COVID-19 Outbreak Prediction with Machine Learning. <i>Algorithms</i> , 2020, 13, 249.	2.1	218
57	Hierarchical Sparse Subspace Clustering (HESSC): An Automatic Approach for Hyperspectral Image Analysis. <i>Remote Sensing</i> , 2020, 12, 2421.	4.0	15
58	Component Decomposition-Based Hyperspectral Resolution Enhancement for Mineral Mapping. <i>Remote Sensing</i> , 2020, 12, 2903.	4.0	13
59	High-Rankness Regularized Semi-Supervised Deep Metric Learning for Remote Sensing Imagery. <i>Remote Sensing</i> , 2020, 12, 2603.	4.0	8
60	Data Fusion Using a Multi-Sensor Sparse-Based Clustering Algorithm. <i>Remote Sensing</i> , 2020, 12, 4007.	4.0	5
61	Multilevel Structure Extraction-Based Multi-Sensor Data Fusion. <i>Remote Sensing</i> , 2020, 12, 4034.	4.0	7
62	How Hyperspectral Image Unmixing and Denoising Can Boost Each Other. <i>Remote Sensing</i> , 2020, 12, 1728.	4.0	11
63	Object Detection Routine for Material Streams Combining RGB and Hyperspectral Reflectance Data Based on Guided Object Localization. <i>IEEE Sensors Journal</i> , 2020, 20, 11490-11498.	4.7	10
64	Feature Extraction for Hyperspectral Imagery: The Evolution From Shallow to Deep: Overview and Toolbox. <i>IEEE Geoscience and Remote Sensing Magazine</i> , 2020, 8, 60-88.	9.6	373
65	Deep Metric Learning Based on Scalable Neighborhood Components for Remote Sensing Scene Characterization. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020, 58, 8905-8918.	6.3	59
66	COVID-19 Pandemic Prediction for Hungary; A Hybrid Machine Learning Approach. <i>Mathematics</i> , 2020, 8, 890.	2.2	198
67	An Efficient Deep Unsupervised Superresolution Model for Remote Sensing Images. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2020, 13, 1937-1945.	4.9	11
68	Deep point embedding for urban classification using ALS point clouds: A new perspective from local to global. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2020, 163, 62-81.	11.1	49
69	Remote sensing image classification using subspace sensor fusion. <i>Information Fusion</i> , 2020, 64, 121-130.	19.1	47
70	Machine learning information fusion in Earth observation: A comprehensive review of methods, applications and data sources. <i>Information Fusion</i> , 2020, 63, 256-272.	19.1	102
71	Texture-aware total variation-based removal of sun glint in hyperspectral images. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2020, 166, 359-372.	11.1	47
72	Classification of Hyperspectral and LiDAR Data Using Coupled CNNs. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020, 58, 4939-4950.	6.3	204

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73	Multispectral Change Detection With Bilinear Convolutional Neural Networks. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 1757-1761.	3.1	36
74	Invariant Attribute Profiles: A Spatial-Frequency Joint Feature Extractor for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 3791-3808.	6.3	228
75	Spatial Analysis of Seasonal Precipitation over Iran: Co-Variation with Climate Indices. ISPRS International Journal of Geo-Information, 2020, 9, 73.	2.9	31
76	2020 IEEE GRSS Data Fusion Contest: Global Land Cover Mapping With Weak Supervision [Technical Committees]. IEEE Geoscience and Remote Sensing Magazine, 2020, 8, 154-157.	9.6	23
77	Report on the 2020 IEEE GRSS Data Fusion Contest-Global Land Cover Mapping With Weak Supervision [Technical Committees]. IEEE Geoscience and Remote Sensing Magazine, 2020, 8, 134-137.	9.6	6
78	Towards 4D Virtual Outcrops with Hyperspectral Imaging. , 2020, , .		0
79	Sun Glint Removal of Hyperspectral Images via Texture-Aware Total Variation. , 2020, , .		2
80	Fusion of Multispectral LiDAR and Hyperspectral Imagery. , 2020, , .		3
81	Intrinsic Image Decomposition-Based Resolution Enhancement for Mineral Mapping. , 2020, , .		3
82	Remote Sensing and Deep Learning for Sustainable Mining. , 2020, , .		3
83	A Machine Learning Framework for Drill-Core Mineral Mapping Using Hyperspectral and High-Resolution Mineralogical Data Fusion. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 4829-4842.	4.9	69
84	Multi-Sensor Spectral Imaging of Geological Samples: A Data Fusion Approach Using Spatio-Spectral Feature Extraction. Sensors, 2019, 19, 2787.	3.8	29
85	Fusion of Heterogeneous Earth Observation Data for the Classification of Local Climate Zones. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 7623-7642.	6.3	22
86	Fusion of Multiple Edge-Preserving Operations for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 10336-10349.	6.3	92
87	Earth fissure hazard prediction using machine learning models. Environmental Research, 2019, 179, 108770.	7.5	81
88	Hyperspectral Feature Extraction Using Sparse and Smooth Low-Rank Analysis. Remote Sensing, 2019, 11, 121.	4.0	17
89	Deep Convolutional Capsule Network for Hyperspectral Image Spectral and Spectral-Spatial Classification. Remote Sensing, 2019, 11, 223.	4.0	77
90	Deep Learning Ensemble for Hyperspectral Image Classification. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 1882-1897.	4.9	108

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91	Noise-Robust Hyperspectral Image Classification via Multi-Scale Total Variation. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 1948-1962.	4.9	87
92	Automatic Design of Convolutional Neural Network for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 7048-7066.	6.3	145
93	Deep Learning for Hyperspectral Image Classification: An Overview. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 6690-6709.	6.3	977
94	Multisource and Multitemporal Data Fusion in Remote Sensing: A Comprehensive Review of the State of the Art. IEEE Geoscience and Remote Sensing Magazine, 2019, 7, 6-39.	9.6	302
95	Hyperspectral Image Classification with Multi-Scale Feature Extraction. Remote Sensing, 2019, 11, 534.	4.0	25
96	Cascaded Recurrent Neural Networks for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 5384-5394.	6.3	394
97	Multiple convolutional layers fusion framework for hyperspectral image classification. Neurocomputing, 2019, 339, 149-160.	5.9	40
98	Multi-Source and multi-Scale Imaging-Data Integration to boost Mineral Mapping. , 2019, , .		3
99	Mixed Noise Reduction in Hyperspectral Imagery. , 2019, , .		1
100	A Novel Composite Kernel Approach for Multisensor Remote Sensing Data Fusion. , 2019, , .		1
101	Multisensor Feature Fusion Using Low-Rank Modeling and Component Analysis. , 2019, , .		0
102	LW-ODF: A Light-Weight Object Detection Framework for Optical Remote Sensing Imagery. , 2019, , .		5
103	Hyperspectral outcrop models for palaeoseismic studies. Photogrammetric Record, 2019, 34, 385-407.	0.4	17
104	Hyperspectral Image Classification With Squeeze Multibias Network. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 1291-1301.	6.3	79
105	LiDAR Data Classification Using Spatial Transformation and CNN. IEEE Geoscience and Remote Sensing Letters, 2019, 16, 125-129.	3.1	23
106	Multisensor Composite Kernels Based on Extreme Learning Machines. IEEE Geoscience and Remote Sensing Letters, 2019, 16, 196-200.	3.1	14
107	IMG2DSM: Height Simulation From Single Imagery Using Conditional Generative Adversarial Net. IEEE Geoscience and Remote Sensing Letters, 2018, 15, 794-798.	3.1	90
108	Extinction Profiles Fusion for Hyperspectral Images Classification. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 1803-1815.	6.3	104

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109	Random Forest Ensembles and Extended Multiextinction Profiles for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 202-216.	6.3	123
110	Corrections to "Deep Recurrent Neural Networks for Hyperspectral Image Classification" [Jul 17 3639-3655]. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 1214-1215.	6.3	9
111	Open Data for Global Multimodal Land Use Classification: Outcome of the 2017 IEEE GRSS Data Fusion Contest. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 1363-1377.	4.9	104
112	Generative Adversarial Networks for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 5046-5063.	6.3	497
113	LiDAR Data Classification Using Morphological Profiles and Convolutional Neural Networks. IEEE Geoscience and Remote Sensing Letters, 2018, 15, 774-778.	3.1	23
114	Unsupervised Spectral-Spatial Feature Learning via Deep Residual Conv-Deconv Network for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 391-406.	6.3	217
115	Feature Importance Analysis of Sentinel-2 Imagery for Large-Scale Urban Local Climate Zone Classification. , 2018, , .		4
116	Feature Importance Analysis for Local Climate Zone Classification Using a Residual Convolutional Neural Network with Multi-Source Datasets. Remote Sensing, 2018, 10, 1572.	4.0	53
117	Hyperspectral and LiDAR Fusion Using Deep Three-Stream Convolutional Neural Networks. Remote Sensing, 2018, 10, 1649.	4.0	57
118	MsRi-CCF: Multi-Scale and Rotation-Insensitive Convolutional Channel Features for Geospatial Object Detection. Remote Sensing, 2018, 10, 1990.	4.0	28
119	New Frontiers in Spectral-Spatial Hyperspectral Image Classification: The Latest Advances Based on Mathematical Morphology, Markov Random Fields, Segmentation, Sparse Representation, and Deep Learning. IEEE Geoscience and Remote Sensing Magazine, 2018, 6, 10-43.	9.6	255
120	Radiometric Normalization of Multitemporal and Multisensor Remote Sensing Images Based on a Gaussian Mixture Model and Error Ellipse. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 4526-4533.	4.9	9
121	Feature Extraction and Selection of Sentinel-1 Dual-Pol Data for Global-Scale Local Climate Zone Classification. ISPRS International Journal of Geo-Information, 2018, 7, 379.	2.9	62
122	Deformable Convolutional Neural Networks for Hyperspectral Image Classification. IEEE Geoscience and Remote Sensing Letters, 2018, 15, 1254-1258.	3.1	171
123	Noise Reduction in Hyperspectral Imagery: Overview and Application. Remote Sensing, 2018, 10, 482.	4.0	197
124	Hyperspectral and LiDAR Fusion Using Extinction Profiles and Total Variation Component Analysis. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 3997-4007.	6.3	117
125	Deep Recurrent Neural Networks for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 3639-3655.	6.3	937
126	Classification of hyperspectral and LIDAR data using extinction profiles with feature fusion. Remote Sensing Letters, 2017, 8, 957-966.	1.4	29

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127	Deep Fusion of Remote Sensing Data for Accurate Classification. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 1253-1257.	3.1	148
128	LiDAR Data Classification Using Extinction Profiles and a Composite Kernel Support Vector Machine. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 659-663.	3.1	36
129	Advanced Spectral Classifiers for Hyperspectral Images: A review. IEEE Geoscience and Remote Sensing Magazine, 2017, 5, 8-32.	9.6	893
130	Hyperspectral and LiDAR Data Fusion Using Extinction Profiles and Deep Convolutional Neural Network. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 3011-3024.	4.9	158
131	Fusion of Hyperspectral and LiDAR Data Using Sparse and Low-Rank Component Analysis. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 6354-6365.	6.3	87
132	Hyperspectral data clustering based on density analysis ensemble. Remote Sensing Letters, 2017, 8, 194-203.	1.4	14
133	Automatic Hyperspectral Image Restoration Using Sparse and Low-Rank Modeling. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 2335-2339.	3.1	52
134	Advances in Hyperspectral Image and Signal Processing: A Comprehensive Overview of the State of the Art. IEEE Geoscience and Remote Sensing Magazine, 2017, 5, 37-78.	9.6	533
135	Hyperspectral Images Classification With Gabor Filtering and Convolutional Neural Network. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 2355-2359.	3.1	199
136	Multimodal, multitemporal, and multisource global data fusion for local climate zones classification based on ensemble learning. , 2017, , .		18
137	Hyperspectral Data Classification Using Extended Extinction Profiles. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 1641-1645.	3.1	61
138	Deep Feature Extraction and Classification of Hyperspectral Images Based on Convolutional Neural Networks. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 6232-6251.	6.3	2,064
139	A Self-Improving Convolution Neural Network for the Classification of Hyperspectral Data. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 1537-1541.	3.1	117
140	Extinction Profiles for the Classification of Remote Sensing Data. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 5631-5645.	6.3	122
141	A Novel Feature Selection Approach Based on FODPSO and SVM. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 2935-2947.	6.3	98
142	Land-cover classification using both hyperspectral and LiDAR data. International Journal of Image and Data Fusion, 2015, 6, 189-215.	1.7	66
143	A Survey on Spectralâ€“Spatial Classification Techniques Based on Attribute Profiles. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 2335-2353.	6.3	312
144	Feature Selection Based on Hybridization of Genetic Algorithm and Particle Swarm Optimization. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 309-313.	3.1	364

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145	Fusion of hyperspectral and LiDAR data in classification of urban areas. , 2014, , .		10
146	Integration of Segmentation Techniques for Classification of Hyperspectral Images. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 342-346.	3.1	58
147	Multilevel Image Segmentation Based on Fractional-Order Darwinian Particle Swarm Optimization. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 2382-2394.	6.3	212
148	Automatic Spectral-Spatial Classification Framework Based on Attribute Profiles and Supervised Feature Extraction. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 5771-5782.	6.3	100
149	Automatic Framework for Spectral-Spatial Classification Based on Supervised Feature Extraction and Morphological Attribute Profiles. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 2147-2160.	4.9	101
150	Spectral-Spatial Classification of Hyperspectral Images Based on Hidden Markov Random Fields. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 2565-2574.	6.3	159
151	FODSPO based feature selection for hyperspectral remote sensing data. , 2014, , .		0
152	Spectral-spatial classification based on integrated segmentation. , 2013, , .		2
153	An efficient method for segmentation of images based on fractional calculus and natural selection. Expert Systems With Applications, 2012, 39, 12407-12417.	7.6	251
154	COVID-19 Outbreak Prediction with Machine Learning. SSRN Electronic Journal, 0, , .	0.4	33
155	A NEW SPECTRAL-SPATIAL SUBSPACE CLUSTERING ALGORITHM FOR HYPERSPECTRAL IMAGE ANALYSIS. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, V-3-2020, 185-191.	0.0	1