Jocelyn Chanussot

List of Publications by Year
in descending order

262	26,233	7568 77	6300 158
papers	citations	h-index	g-index

264	264	264	9313
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.	4.9	2,181
2	Hyperspectral Remote Sensing Data Analysis and Future Challenges. IEEE Geoscience and Remote Sensing Magazine, 2013, 1, 6-36.	9.6	1,508
3	Recent advances in techniques for hyperspectral image processing. Remote Sensing of Environment, 2009, 113, S110-S122.	11.0	1,452
4	Graph Convolutional Networks for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 5966-5978.	6.3	974
5	A Critical Comparison Among Pansharpening Algorithms. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 2565-2586.	6.3	943
6	Spectral and Spatial Classification of Hyperspectral Data Using SVMs and Morphological Profiles. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 3804-3814.	6.3	930
7	More Diverse Means Better: Multimodal Deep Learning Meets Remote-Sensing Imagery Classification. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 4340-4354.	6.3	781
8	Comparison of Pansharpening Algorithms: Outcome of the 2006 GRS-S Data-Fusion Contest. IEEE Transactions on Geoscience and Remote Sensing, 2007, 45, 3012-3021.	6.3	692
9	An Augmented Linear Mixing Model to Address Spectral Variability for Hyperspectral Unmixing. IEEE Transactions on Image Processing, 2019, 28, 1923-1938.	9.8	643
10	Hyperspectral Pansharpening: A Review. IEEE Geoscience and Remote Sensing Magazine, 2015, 3, 27-46.	9.6	593
11	A Convex Formulation for Hyperspectral Image Superresolution via Subspace-Based Regularization. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 3373-3388.	6.3	529
12	Synthesis of Multispectral Images to High Spatial Resolution: A Critical Review of Fusion Methods Based on Remote Sensing Physics. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 1301-1312.	6.3	518
13	Hyperspectral and Multispectral Data Fusion: A comparative review of the recent literature. IEEE Geoscience and Remote Sensing Magazine, 2017, 5, 29-56.	9.6	461
14	Scene Classification With Recurrent Attention of VHR Remote Sensing Images. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 1155-1167.	6.3	437
15	SpectralFormer: Rethinking Hyperspectral Image Classification With Transformers. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	6.3	414
16	Feature Extraction for Hyperspectral Imagery: The Evolution From Shallow to Deep: Overview and Toolbox. IEEE Geoscience and Remote Sensing Magazine, 2020, 8, 60-88.	9.6	373
17	Classification of Hyperspectral Images by Using Extended Morphological Attribute Profiles and Independent Component Analysis. IEEE Geoscience and Remote Sensing Letters, 2011, 8, 542-546.	3.1	340
18	Hyperspectral Image Classification With Independent Component Discriminant Analysis. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 4865-4876.	6.3	325

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19	Contrast and Error-Based Fusion Schemes for Multispectral Image Pansharpening. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 930-934.	3.1	291
20	Linear Versus Nonlinear PCA for the Classification of Hyperspectral Data Based on the Extended Morphological Profiles. IEEE Geoscience and Remote Sensing Letters, 2012, 9, 447-451.	3.1	273
21	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
22	Kernel Principal Component Analysis for the Classification of Hyperspectral Remote Sensing Data over Urban Areas. Eurasip Journal on Advances in Signal Processing, 2009, 2009, .	1.7	207
23	Learnable manifold alignment (LeMA): A semi-supervised cross-modality learning framework for land cover and land use classification. ISPRS Journal of Photogrammetry and Remote Sensing, 2019, 147, 193-205.	11.1	206
24	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.	6.3	203
25	Noise Reduction in Hyperspectral Imagery: Overview and Application. Remote Sensing, 2018, 10, 482.	4.0	197
26	Multiple Kernel Learning for Hyperspectral Image Classification: A Review. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 6547-6565.	6.3	194
27	Indusion: Fusion of Multispectral and Panchromatic Images Using the Induction Scaling Technique. IEEE Geoscience and Remote Sensing Letters, 2008, 5, 98-102.	3.1	189
28	Hyperspectral Remote Sensing Image Classification Based on Rotation Forest. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 239-243.	3.1	183
29	ORSIm Detector: A Novel Object Detection Framework in Optical Remote Sensing Imagery Using Spatial-Frequency Channel Features. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 5146-5158.	6.3	181
30	CoSpace: Common Subspace Learning From Hyperspectral-Multispectral Correspondences. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 4349-4359.	6.3	180
31	A New Benchmark Based on Recent Advances in Multispectral Pansharpening: Revisiting Pansharpening With Classical and Emerging Pansharpening Methods. IEEE Geoscience and Remote Sensing Magazine, 2021, 9, 53-81.	9.6	175
32	Blind Hyperspectral Unmixing Using an Extended Linear Mixing Model to Address Spectral Variability. IEEE Transactions on Image Processing, 2016, 25, 3890-3905.	9.8	167
33	X-ModalNet: A semi-supervised deep cross-modal network for classification of remote sensing data. ISPRS Journal of Photogrammetry and Remote Sensing, 2020, 167, 12-23.	11.1	163
34	Pansharpening Quality Assessment Using the Modulation Transfer Functions of Instruments. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 3880-3891.	6.3	161
35	Remotely Sensed Image Classification Using Sparse Representations of Morphological Attribute Profiles. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 5122-5136.	6.3	157
36	Interpretable Hyperspectral Artificial Intelligence: When nonconvex modeling meets hyperspectral remote sensing. IEEE Geoscience and Remote Sensing Magazine, 2021, 9, 52-87.	9.6	157

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37	Full Scale Regression-Based Injection Coefficients for Panchromatic Sharpening. IEEE Transactions on Image Processing, 2018, 27, 3418-3431.	9.8	154
38	Nonlocal Patch Tensor Sparse Representation for Hyperspectral Image Super-Resolution. IEEE Transactions on Image Processing, 2019, 28, 3034-3047.	9.8	154
39	Decision Fusion for the Classification of Hyperspectral Data: Outcome of the 2008 GRS-S Data Fusion Contest. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 3857-3865.	6.3	151
40	Fusion of Multispectral and Panchromatic Images Based on Morphological Operators. IEEE Transactions on Image Processing, 2016, 25, 2882-2895.	9.8	151
41	Hyperspectral Super-Resolution of Locally Low Rank Images From Complementary Multisource Data. IEEE Transactions on Image Processing, 2016, 25, 274-288.	9.8	151
42	Multi-Modal Change Detection, Application to the Detection of Flooded Areas: Outcome of the 2009â€“2010 Data Fusion Contest. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2012, 5, 331-342.	4.9	149
43	A Pansharpening Method Based on the Sparse Representation of Injected Details. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 180-184.	3.1	145
44	A New Pansharpening Method Based on Spatial and Spectral Sparsity Priors. IEEE Transactions on Image Processing, 2014, 23, 4160-4174.	9.8	140
45	Spectral Unmixing for the Classification of Hyperspectral Images at a Finer Spatial Resolution. IEEE Journal on Selected Topics in Signal Processing, 2011, 5, 521-533.	10.8	139
46	StfNet: A Two-Stream Convolutional Neural Network for Spatiotemporal Image Fusion. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 6552-6564.	6.3	134
47	Pansharpening via Detail Injection Based Convolutional Neural Networks. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 1188-1204.	4.9	131
48	Detail Injection-Based Deep Convolutional Neural Networks for Pansharpening. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 6995-7010.	6.3	131
49	Random Subspace Ensembles for Hyperspectral Image Classification With Extended Morphological Attribute Profiles. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 4768-4786.	6.3	130
50	Multimodal remote sensing benchmark datasets for land cover classification with a shared and specific feature learning model. ISPRS Journal of Photogrammetry and Remote Sensing, 2021, 178, 68-80.	11.1	128
51	Learning to propagate labels on graphs: An iterative multitask regression framework for semi-supervised hyperspectral dimensionality reduction. ISPRS Journal of Photogrammetry and Remote Sensing, 2019, 158, 35-49.	11.1	124
52	Hyperspectral Image Classificationâ€”Traditional to Deep Models: A Survey for Future Prospects. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 968-999.	4.9	123
53	Convolutional Neural Networks for Multimodal Remote Sensing Data Classification. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-10.	6.3	122
54	Spectralâ€“Spatial Classification for Hyperspectral Data Using Rotation Forests With Local Feature Extraction and Markov Random Fields. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 2532-2546.	6.3	119

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55	Context-Adaptive Pansharpening Based on Image Segmentation. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 753-766.	6.3	119
56	Joint Reconstruction and Anomaly Detection From Compressive Hyperspectral Images Using Mahalanobis Distance-Regularized Tensor RPCA. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 2919-2930.	6.3	116
57	Spectral Superresolution of Multispectral Imagery With Joint Sparse and Low-Rank Learning. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 2269-2280.	6.3	114
58	Urban Mapping Using Coarse SAR and Optical Data: Outcome of the 2007 GRSS Data Fusion Contest. IEEE Geoscience and Remote Sensing Letters, 2008, 5, 331-335.	3.1	111
59	Fourier-Based Rotation-Invariant Feature Boosting: An Efficient Framework for Geospatial Object Detection. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 302-306.	3.1	110
60	Local Similarity-Based Spatialâ€“Spectral Fusion Hyperspectral Image Classification With Deep CNN and Gabor Filtering. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	6.3	110
61	Pansharpening Based on Semiblind Deconvolution. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 1997-2010.	6.3	108
62	Coupled Convolutional Neural Network With Adaptive Response Function Learning for Unsupervised Hyperspectral Super Resolution. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 2487-2502.	6.3	103
63	Dynamic Multicontext Segmentation of Remote Sensing Images Based on Convolutional Networks. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 7503-7520.	6.3	102
64	Progress and Challenges in Intelligent Remote Sensing Satellite Systems. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 1814-1822.	4.9	102
65	Nonlocal Coupled Tensor CP Decomposition for Hyperspectral and Multispectral Image Fusion. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 348-362.	6.3	98
66	Endmember-Guided Unmixing Network (EGU-Net): A General Deep Learning Framework for Self-Supervised Hyperspectral Unmixing. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 6518-6531.	11.3	98
67	Improving MODIS Spatial Resolution for Snow Mapping Using Wavelet Fusion and ARSIS Concept. IEEE Geoscience and Remote Sensing Letters, 2008, 5, 78-82.	3.1	96
68	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.	21.3	94
69	Hyperspectral Image Representation and Processing With Binary Partition Trees. IEEE Transactions on Image Processing, 2013, 22, 1430-1443.	9.8	93
70	Hyperspectral Image Classification With Rotation Random Forest Via KPCA. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 1601-1609.	4.9	93
71	Spectral Variability in Hyperspectral Data Unmixing: A comprehensive review. IEEE Geoscience and Remote Sensing Magazine, 2021, 9, 223-270.	9.6	92
72	Rotation-Based Support Vector Machine Ensemble in Classification of Hyperspectral Data With Limited Training Samples. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 1519-1531.	6.3	87

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73	An attention-fused network for semantic segmentation of very-high-resolution remote sensing imagery. ISPRS Journal of Photogrammetry and Remote Sensing, 2021, 177, 238-262.	11.1	81
74	Very short term forecasting of the Global Horizontal Irradiance using a spatio-temporal autoregressive model. Renewable Energy, 2014, 72, 291-300.	8.9	79
75	Hyperspectral Image Segmentation Using a New Spectral Unmixing-Based Binary Partition Tree Representation. IEEE Transactions on Image Processing, 2014, 23, 3574-3589.	9.8	79
76	Nonnegative Tensor CP Decomposition of Hyperspectral Data. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 2577-2588.	6.3	79
77	Hyperspectral Images Super-Resolution via Learning High-Order Coupled Tensor Ring Representation. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 4747-4760.	11.3	79
78	Cross-Attention in Coupled Unmixing Nets for Unsupervised Hyperspectral Super-Resolution. Lecture Notes in Computer Science, 2020, , 208-224.	1.3	79
79	Nonlinear Unmixing of Hyperspectral Data Using Semi-Nonnegative Matrix Factorization. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 1430-1437.	6.3	77
80	Hyperspectral Pansharpening Using Deep Prior and Dual Attention Residual Network. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 8059-8076.	6.3	77
81	A Regression-Based High-Pass Modulation Pansharpening Approach. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 984-996.	6.3	75
82	Hyperspectral Image Super-Resolution via Deep Spatiospectral Attention Convolutional Neural Networks. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 7251-7265.	11.3	74
83	A Variational Pansharpening Approach Based on Reproducible Kernel Hilbert Space and Heaviside Function. IEEE Transactions on Image Processing, 2018, 27, 4330-4344.	9.8	71
84	Joint and Progressive Subspace Analysis (JPSA) With Spatialâ€“Spectral Manifold Alignment for Semisupervised Hyperspectral Dimensionality Reduction. IEEE Transactions on Cybernetics, 2021, 51, 3602-3615.	9.5	71
85	Multimodal GANs: Toward Crossmodal Hyperspectralâ€“Multispectral Image Segmentation. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 5103-5113.	6.3	71
86	Hyperspectral Image Unmixing With Endmember Bundles and Group Sparsity Inducing Mixed Norms. IEEE Transactions on Image Processing, 2019, 28, 3435-3450.	9.8	68
87	HyperPNN: Hyperspectral Pansharpening via Spectrally Predictive Convolutional Neural Networks. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 3092-3100.	4.9	67
88	Hyperspectral Anomaly Detection via Global and Local Joint Modeling of Background. IEEE Transactions on Signal Processing, 2019, 67, 3858-3869.	5.3	66
89	Spectral and spatial classification of hyperspectral data using SVMs and morphological profiles. , 2007, , .		64
90	(Semi-) Supervised Probabilistic Principal Component Analysis for Hyperspectral Remote Sensing Image Classification. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 2224-2236.	4.9	63

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91	Pansharpening: Context-Based Generalized Laplacian Pyramids by Robust Regression. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 6152-6167.	6.3	61
92	CyCU-Net: Cycle-Consistency Unmixing Network by Learning Cascaded Autoencoders. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	6.3	59
93	An Assessment of Existing Methodologies to Retrieve Snow Cover Fraction from MODIS Data. Remote Sensing, 2018, 10, 619.	4.0	58
94	Deep Encoderâ€“Decoder Networks for Classification of Hyperspectral and LiDAR Data. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	55
95	Learning Tensor Low-Rank Representation for Hyperspectral Anomaly Detection. IEEE Transactions on Cybernetics, 2023, 53, 679-691.	9.5	54
96	Fusion of hyperspectral and panchromatic images using multiresolution analysis and nonlinear PCA band reduction. Eurasip Journal on Advances in Signal Processing, 2012, 2012, .	1.7	52
97	Empirical Automatic Estimation of the Number of Endmembers in Hyperspectral Images. IEEE Geoscience and Remote Sensing Letters, 2013, 10, 24-28.	3.1	52
98	Dynamical Spectral Unmixing of Multitemporal Hyperspectral Images. IEEE Transactions on Image Processing, 2016, 25, 3219-3232.	9.8	52
99	Global Spatial and Local Spectral Similarity-Based Manifold Learning Group Sparse Representation for Hyperspectral Imagery Classification. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 3043-3056.	6.3	52
100	CNN-Based Super-Resolution of Hyperspectral Images. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 6106-6121.	6.3	52
101	Graph Relation Network: Modeling Relations Between Scenes for Multilabel Remote-Sensing Image Classification and Retrieval. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 4355-4369.	6.3	52
102	Conditional Random Field and Deep Feature Learning for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 1612-1628.	6.3	49
103	Pansharpening Based on Deconvolution for Multiband Filter Estimation. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 540-553.	6.3	47
104	Multimodal hyperspectral remote sensing: an overview and perspective. Science China Information Sciences, 2021, 64, 1.	4.3	47
105	lâ,€-lâ,•Hybrid Total Variation Regularization and its Applications on Hyperspectral Image Mixed Noise Removal and Compressed Sensing. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 7695-7710.	6.3	46
106	Siamese Transformer Network for Hyperspectral Image Target Detection. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-19.	6.3	46
107	Learning-Shared Cross-Modality Representation Using Multispectral-LiDAR and Hyperspectral Data. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 1470-1474.	3.1	41
108	Processing Multidimensional SAR and Hyperspectral Images With Binary Partition Tree. Proceedings of the IEEE, 2013, 101, 723-747.	21.3	40

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109	A Bayesian Procedure for Full-Resolution Quality Assessment of Pansharpened Products. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 4820-4834.	6.3	39
110	Multimodal Hyperspectral Unmixing: Insights From Attention Networks. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	6.3	38
111	Multimorphological Superpixel Model for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 6950-6963.	6.3	36
112	Low-Rank Decomposition and Total Variation Regularization of Hyperspectral Video Sequences. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 1680-1694.	6.3	36
113	NonRegSRNet: A Nonrigid Registration Hyperspectral Super-Resolution Network. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	6.3	36
114	Hyperspectral Anomaly Detection Using Deep Learning: A Review. Remote Sensing, 2022, 14, 1973.	4.0	36
115	Decision-Based Fusion for Pansharpening of Remote Sensing Images. IEEE Geoscience and Remote Sensing Letters, 2013, 10, 19-23.	3.1	35
116	Using Low-Rank Representation of Abundance Maps and Nonnegative Tensor Factorization for Hyperspectral Nonlinear Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-17.	6.3	35
117	Hyperspectral Restoration and Fusion With Multispectral Imagery via Low-Rank Tensor-Approximation. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 7817-7830.	6.3	34
118	Hyperspectral Image Mixed Noise Removal Based on Multidirectional Low-Rank Modeling and Spatialâ€“Spectral Total Variation. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 488-507.	6.3	33
119	Deep Half-Siamese Networks for Hyperspectral Unmixing. IEEE Geoscience and Remote Sensing Letters, 2021, 18, 1996-2000.	3.1	33
120	Soft-Then-Hard Subpixel Land Cover Mapping Based on Spatial-Spectral Interpolation. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 1851-1854.	3.1	32
121	Spectral-Fidelity Convolutional Neural Networks for Hyperspectral Pansharpening. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 5898-5914.	4.9	32
122	Sparsity-Enhanced Convolutional Decomposition: A Novel Tensor-Based Paradigm for Blind Hyperspectral Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	6.3	32
123	A Triple-Double Convolutional Neural Network for Panchromatic Sharpening. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 9088-9101.	11.3	32
124	Object Tracking by Hierarchical Decomposition of Hyperspectral Video Sequences: Application to Chemical Gas Plume Tracking. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 4567-4585.	6.3	31
125	Multiple Feature Kernel Sparse Representation Classifier for Hyperspectral Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 5343-5356.	6.3	30
126	MiSiCNet: Minimum Simplex Convolutional Network for Deep Hyperspectral Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	6.3	30

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127	Semisupervised Cross-Scale Graph Prototypical Network for Hyperspectral Image Classification. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 9337-9351.	11.3	30
128	Spectral transformation based on nonlinear principal component analysis for dimensionality reduction of hyperspectral images. European Journal of Remote Sensing, 2018, 51, 375-390.	3.5	29
129	Graph-Based Data Fusion Applied to: Change Detection and Biomass Estimation in Rice Crops. Remote Sensing, 2020, 12, 2683.	4.0	29
130	Hyperspectral Classification Through Unmixing Abundance Maps Addressing Spectral Variability. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 4775-4788.	6.3	28
131	Tensor Low-Rank Constraint and l_0 Total Variation for Hyperspectral Image Mixed Noise Removal. IEEE Journal on Selected Topics in Signal Processing, 2021, 15, 718-733.	10.8	28
132	Fusion of Spectral and Spatial Information for Classification of Hyperspectral Remote-Sensed Imagery by Local Graph. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 583-594.	4.9	27
133	Hyperspectral Computational Imaging via Collaborative Tucker3 Tensor Decomposition. IEEE Transactions on Circuits and Systems for Video Technology, 2021, 31, 98-111.	8.3	27
134	Intercomparison and Validation of Techniques for Spectral Unmixing of Hyperspectral Images: A Planetary Case Study. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 4341-4358.	6.3	26
135	A Mutual Information-Based Self-Supervised Learning Model for PolSAR Land Cover Classification. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 9224-9237.	6.3	26
136	Full-Resolution Quality Assessment of Pansharpening: Theoretical and hands-on approaches. IEEE Geoscience and Remote Sensing Magazine, 2022, 10, 168-201.	9.6	26
137	Multi-resolution analysis techniques and nonlinear PCA for hybrid pansharpening applications. Multidimensional Systems and Signal Processing, 2016, 27, 807-830.	2.6	25
138	A Pansharpening Approach Based on Multiple Linear Regression Estimation of Injection Coefficients. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 102-106.	3.1	24
139	Spectral Variability Aware Blind Hyperspectral Image Unmixing Based on Convex Geometry. IEEE Transactions on Image Processing, 2020, 29, 4568-4582.	9.8	24
140	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
141	AutoNAS: Automatic Neural Architecture Search for Hyperspectral Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	6.3	24
142	Using Multiple Subpixel Shifted Images With Spatialâ€“Spectral Information in Soft-Then-Hard Subpixel Mapping. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 2950-2959.	4.9	21
143	Unsupervised and Unregistered Hyperspectral Image Super-Resolution With Mutual Dirichlet-Net. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-18.	6.3	21
144	Multipatch Feature Pyramid Network for Weakly Supervised Object Detection in Optical Remote Sensing Images. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	6.3	21

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145	Burnt-Net: Wildfire burned area mapping with single post-fire Sentinel-2 data and deep learning morphological neural network. Ecological Indicators, 2022, 140, 108999.	6.3	21
146	Learning to semantically segment high-resolution remote sensing images. , 2016, , .		20
147	Mapping Urban Land Cover of a Large Area Using Multiple Sensors Multiple Features. Remote Sensing, 2018, 10, 872.	4.0	20
148	Spectral Unmixing: A Derivation of the Extended Linear Mixing Model From the Hapke Model. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 1866-1870.	3.1	19
149	Super Resolution Guided Deep Network for Land Cover Classification From Remote Sensing Images. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-12.	6.3	19
150	DSMNN-Net: A Deep Siamese Morphological Neural Network Model for Burned Area Mapping Using Multispectral Sentinel-2 and Hyperspectral PRISMA Images. Remote Sensing, 2021, 13, 5138.	4.0	19
151	Hyperspectral and LiDAR Data Classification Using Joint CNNs and Morphological Feature Learning. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	6.3	19
152	Band Assignment Approaches for Hyperspectral Sharpening. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 739-743.	3.1	18
153	Blind Hyperspectral Unmixing Based on Graph Total Variation Regularization. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 3338-3351.	6.3	18
154	Analysis of the Chemical and Physical Environmental Aspects that Promoted the Spread of SARS-CoV-2 in the Lombard Area. International Journal of Environmental Research and Public Health, 2021, 18, 1226.	2.6	18
155	Revisiting Deep Hyperspectral Feature Extraction Networks via Gradient Centralized Convolution. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-19.	6.3	18
156	Signal and Image Processing in Hyperspectral Remote Sensing [From the Guest Editors]. IEEE Signal Processing Magazine, 2014, 31, 22-23.	5.6	17
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