Xudong Kang

List of Publications by Year
in descending order

76 papers	7,462 citations	109321 35 h-index	110387 64 g-index
77 all docs	77 docs citations	77 times ranked	4053 citing authors

#	Article	IF	Citations
1	Image Fusion With Guided Filtering. IEEE Transactions on Image Processing, 2013, 22, 2864-2875.	9.8	1,240
2	Pixel-level image fusion: A survey of the state of the art. Information Fusion, 2017, 33, 100-112.	19.1	880
3	Spectral–Spatial Hyperspectral Image Classification With Edge-Preserving Filtering. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 2666-2677.	6.3	614
4	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
5	Hyperspectral Anomaly Detection With Attribute and Edge-Preserving Filters. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 5600-5611.	6.3	291
6	Image matting for fusion of multi-focus images in dynamic scenes. Information Fusion, 2013, 14, 147-162.	19.1	290
7	Spectral–Spatial Hyperspectral Image Classification via Multiscale Adaptive Sparse Representation. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 7738-7749.	6.3	286
8	PCA-Based Edge-Preserving Features for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 7140-7151.	6.3	273
9	Feature Extraction of Hyperspectral Images With Image Fusion and Recursive Filtering. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 3742-3752.	6.3	248
10	Spectral–Spatial Classification of Hyperspectral Images With a Superpixel-Based Discriminative Sparse Model. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 4186-4201.	6.3	229
11	Fast multi-exposure image fusion with median filter and recursive filter. IEEE Transactions on Consumer Electronics, 2012, 58, 626-632.	3.6	204
12	Regularizing Hyperspectral and Multispectral Image Fusion by CNN Denoiser. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 1124-1135.	11.3	179
13	Intrinsic Image Decomposition for Feature Extraction of Hyperspectral Images. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 2241-2253.	6.3	148
14	Classification of Hyperspectral Images by Gabor Filtering Based Deep Network. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 1166-1178.	4.9	129
15	Spectral–Spatial Hyperspectral Image Classification Based on KNN. Sensing and Imaging, 2016, 17, 1.	1.5	111
16	Hyperspectral Image Classification Via Shape-Adaptive Joint Sparse Representation. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 556-567.	4.9	108
17	Extended Random Walker-Based Classification of Hyperspectral Images. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 144-153.	6.3	104
18	Hyperspectral Anomaly Detection With Kernel Isolation Forest. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 319-329.	6.3	104

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19	Pansharpening With Matting Model. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 5088-5099.	6.3	94
20	Fusion of Multiple Edge-Preserving Operations for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 10336-10349.	6.3	92
21	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
22	Fusion of Dual Spatial Information for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 7726-7738.	6.3	87
23	Hyperspectral Image Classification via Fusing Correlation Coefficient and Joint Sparse Representation. IEEE Geoscience and Remote Sensing Letters, 2018, 15, 340-344.	3.1	82
24	Detection and Correction of Mislabeled Training Samples for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 5673-5686.	6.3	75
25	Spatial Density Peak Clustering for Hyperspectral Image Classification With Noisy Labels. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 5085-5097.	6.3	71
26	Hyperspectral Anomaly Detection With Multiscale Attribute and Edge-Preserving Filters. IEEE Geoscience and Remote Sensing Letters, 2018, 15, 1605-1609.	3.1	61
27	Dual-Path Network-Based Hyperspectral Image Classification. IEEE Geoscience and Remote Sensing Letters, 2019, 16, 447-451.	3.1	60
28	Density Peak-Based Noisy Label Detection for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 1573-1584.	6.3	59
29	Random-Walker-Based Collaborative Learning for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 212-222.	6.3	58
30	KNN-Based Representation of Superpixels for Hyperspectral Image Classification. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 4032-4047.	4.9	57
31	Gaussian Pyramid Based Multiscale Feature Fusion for Hyperspectral Image Classification. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 3312-3324.	4.9	56
32	Extended Random Walker for Shadow Detection in Very High Resolution Remote Sensing Images. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 867-876.	6.3	55
33	Texture-aware total variation-based removal of sun glint in hyperspectral images. ISPRS Journal of Photogrammetry and Remote Sensing, 2020, 166, 359-372.	11.1	47
34	Decolorization-Based Hyperspectral Image Visualization. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 4346-4360.	6.3	44
35	Hyperspectral image visualization with edge-preserving filtering and principal component analysis. Information Fusion, 2020, 57, 130-143.	19.1	42
36	Self-supervised learning-based oil spill detection of hyperspectral images. Science China Technological Sciences, 2022, 65, 793-801.	4.0	40

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37	Attribute filter based infrared and visible image fusion. Information Fusion, 2021, 75, 41-54.	19.1	36
38	Multichannel Pulse-Coupled Neural Network-Based Hyperspectral Image Visualization. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 2444-2456.	6.3	34
39	Hyperspectral image classification based on KNN sparse representation. , 2016, , .		30
40	Pan-Sharpening via Multiscale Dynamic Convolutional Neural Network. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 2231-2244.	6.3	27
41	Fusing Multiple Deep Models for *In Vivo* Human Brain Hyperspectral Image Classification to Identify Glioblastoma Tumor. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-14.	4.7	27
42	3-D Adaptive Sparsity Based Image Compression With Applications to Optical Coherence Tomography. IEEE Transactions on Medical Imaging, 2015, 34, 1306-1320.	8.9	26
43	Semi-supervised deep learning for hyperspectral image classification. Remote Sensing Letters, 2019, 10, 353-362.	1.4	26
44	Interactformer: Interactive Transformer and CNN for Hyperspectral Image Super-Resolution. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	6.3	24
45	The Effect of Ground Truth on Performance Evaluation of Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 7195-7206.	6.3	22
46	Robust Normalized Softmax Loss for Deep Metric Learning-Based Characterization of Remote Sensing Images With Label Noise. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 8798-8811.	6.3	20
47	A Coarse-to-Fine Method for Cloud Detection in Remote Sensing Images. IEEE Geoscience and Remote Sensing Letters, 2019, 16, 110-114.	3.1	19
48	Game Theory-Based Hyperspectral Anomaly Detection. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 2965-2976.	6.3	16
49	Fog Model-Based Hyperspectral Image Defogging. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-12.	6.3	15
50	Multilabel Sample Augmentation-Based Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 4263-4278.	6.3	15
51	Multilayer Global Spectral–Spatial Attention Network for Wetland Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	6.3	15
52	Polygon Structure-Guided Hyperspectral Image Classification With Single Sample for Strong Geometric Characteristics Scenes. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-12.	6.3	14
53	Component Decomposition-Based Hyperspectral Resolution Enhancement for Mineral Mapping. Remote Sensing, 2020, 12, 2903.	4.0	13
54	Isolation Forest for Anomaly Detection in Hyperspectral Images. , 2019, , .		10

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55	Noise-Tolerant Deep Neighborhood Embedding for Remotely Sensed Images With Label Noise. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 2551-2562.	4.9	10
56	A Two-Stage Multi-Focus Image Fusion Framework Robust to Image Mis-Registration. IEEE Access, 2019, 7, 123231-123243.	4.2	9
57	Feature extraction from hyperspectral images using learned edge structures. Remote Sensing Letters, 2019, 10, 244-253.	1.4	9
58	Curvature Filters-Based Multiscale Feature Extraction for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	6.3	8
59	Semisupervised Semantic Segmentation of Remote Sensing Images With Consistency Self-Training. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-11.	6.3	8
60	Multilevel Structure Extraction-Based Multi-Sensor Data Fusion. Remote Sensing, 2020, 12, 4034.	4.0	7
61	Convolutional Neural Network for Natural Color Visualization of Hyperspectral Images. , 2019, , .		6
62	A Robust UAV Hyperspectral Image Stitching Method Based on Deep Feature Matching. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	6.3	6
63	Pansharpening Based on Intrinsic Image Decomposition. Sensing and Imaging, 2014, 15, 1.	1.5	5
64	Supervised classification methods in hyperspectral imaging—recent advances. Data Handling in Science and Technology, 2019, 32, 247-279.	3.1	5
65	Multiscale Feature Extraction with Gaussian Curvature Filter for Hyperspectral Image Classification. , 2020, , .		5
66	Unsupervised Domain Adaptation Semantic Segmentation for Remote-Sensing Images via Covariance Attention. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	4
67	Extended random walkers for hyperspectral image classification. , 2014, , .		2
68	Spatial Dynamic Selection Network for Remote-Sensing Image Fusion. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	2
69	Sun Glint Removal of Hyperspectral Images via Texture-Aware Total Variation. , 2020, , .		2
70	Multi-Scale Structure Extraction for Hyperspectral Image Classification. , 2018, , .		1
71	Edge Guided Structure Extraction for Hyperspectral Image Classification. , 2021, , .		1
72	A Comparative Study of Noise Sensitivity on Different Hyperspectral Classification Methods. , 2021, , .		1

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73	The Effect of Ground Truth on Accuracy Indexes in Hyperspectral Image Classification. , 2018, , .		0
74	The Utilization of Multi-Label Samples For Hyperspectral Image Classification. , 2019, , .		0
75	Polygonal Partition-Based Hyperspectral Image Classification with Single Labeled Sample. , 2021, , .		0
76	Noise Analysis of Hyperspectral Images Captured by Different Sensors. , 2020, , .		0