Sen Jia

List of Publications by Year
in descending order

106 papers	4,040 citations	147801 31 h-index	138484 58 g-index
106 all docs	106 docs citations	106 times ranked	2838 citing authors

#	Article	IF	Citations
1	Convolutional neural networks for hyperspectral image classification. Neurocomputing, 2017, 219, 88-98.	5.9	457
2	Hyperspectral Unmixing via $L_{1/2}$ Sparsity-Constrained Nonnegative Matrix Factorization. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 4282-4297.	6.3	453
3	Constrained Nonnegative Matrix Factorization for Hyperspectral Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 161-173.	6.3	306
4	A Novel Ranking-Based Clustering Approach for Hyperspectral Band Selection. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 88-102.	6.3	266
5	A survey: Deep learning for hyperspectral image classification with few labeled samples. Neurocomputing, 2021, 448, 179-204.	5.9	189
6	Three-Dimensional Gabor Wavelets for Pixel-Based Hyperspectral Imagery Classification. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 5039-5046.	6.3	181
7	Unsupervised Band Selection for Hyperspectral Imagery Classification Without Manual Band Removal. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2012, 5, 531-543.	4.9	150
8	Gabor Feature-Based Collaborative Representation for Hyperspectral Imagery Classification. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 1118-1129.	6.3	118
9	Spectral and Spatial Complexity-Based Hyperspectral Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2007, 45, 3867-3879.	6.3	107
10	Three-dimensional Gabor feature extraction for hyperspectral imagery classification using a memetic framework. Information Sciences, 2015, 298, 274-287.	6.9	98
11	A 3-D Gabor Phase-Based Coding and Matching Framework for Hyperspectral Imagery Classification. IEEE Transactions on Cybernetics, 2018, 48, 1176-1188.	9.5	84
12	Deep Metric Learning-Based Feature Embedding for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 1422-1435.	6.3	80
13	Spectralâ€“Spatial Hyperspectral Image Classification Using $ell_{1/2}$ Regularized Low-Rank Representation and Sparse Representation-Based Graph Cuts. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 2473-2484.	4.9	79
14	Urban Traffic Density Estimation Based on Ultrahigh-Resolution UAV Video and Deep Neural Network. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 4968-4981.	4.9	75
15	Collaborative Representation-Based Multiscale Superpixel Fusion for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 7770-7784.	6.3	71
16	Gabor Cube Selection Based Multitask Joint Sparse Representation for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 3174-3187.	6.3	70
17	Three-Dimensional Local Binary Patterns for Hyperspectral Imagery Classification. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 2399-2413.	6.3	70
18	Discriminative Gabor Feature Selection for Hyperspectral Image Classification. IEEE Geoscience and Remote Sensing Letters, 2013, 10, 29-33.	3.1	68

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19	Towards a Memetic Feature Selection Paradigm [Application Notes. IEEE Computational Intelligence Magazine, 2010, 5, 41-53.	3.2	67
20	Local Binary Pattern-Based Hyperspectral Image Classification With Superpixel Guidance. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 749-759.	6.3	67
21	Hyperspectral Anomaly Detection via Deep Plug-and-Play Denoising CNN Regularization. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 9553-9568.	6.3	62
22	Thin cloud removal from optical remote sensing images using the noise-adjusted principal components transform. ISPRS Journal of Photogrammetry and Remote Sensing, 2019, 149, 215-225.	11.1	56
23	Spectralâ€“Spatial Gabor Surface Feature Fusion Approach for Hyperspectral Imagery Classification. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 1142-1154.	6.3	49
24	Cascade Superpixel Regularized Gabor Feature Fusion for Hyperspectral Image Classification. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 1638-1652.	11.3	46
25	Superpixel-Based Multitask Learning Framework for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 2575-2588.	6.3	45
26	Multiple Feature-Based Superpixel-Level Decision Fusion for Hyperspectral and LiDAR Data Classification. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 1437-1452.	6.3	45
27	A Lightweight Convolutional Neural Network for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 4150-4163.	6.3	42
28	A Two-Stage Feature Selection Framework for Hyperspectral Image Classification Using Few Labeled Samples. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 1023-1035.	4.9	41
29	Multiple 3-D Feature Fusion Framework for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 1873-1886.	6.3	40
30	A Semisupervised Siamese Network for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-17.	6.3	32
31	Spatial-spectral-combined sparse representation-based classification for hyperspectral imagery. Soft Computing, 2016, 20, 4659-4668.	3.6	31
32	Attention mechanism-based generative adversarial networks for cloud removal in Landsat images. Remote Sensing of Environment, 2022, 271, 112902.	11.0	29
33	Superpixel-Level Weighted Label Propagation for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 5077-5091.	6.3	27
34	Multiattention Generative Adversarial Network for Remote Sensing Image Super-Resolution. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	6.3	27
35	3-D Gaussianâ€“Gabor Feature Extraction and Selection for Hyperspectral Imagery Classification. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 8813-8826.	6.3	26
36	Flexible Gabor-Based Superpixel-Level Unsupervised LDA for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 10394-10409.	6.3	24

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37	Graph-in-Graph Convolutional Network for Hyperspectral Image Classification. IEEE Transactions on Neural Networks and Learning Systems, 2024, 35, 1157-1171.	11.3	24
38	3-D Gabor Convolutional Neural Network for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	6.3	22
39	Separable-spectral convolution and inception network for hyperspectral image super-resolution. International Journal of Machine Learning and Cybernetics, 2019, 10, 2593-2607.	3.6	19
40	L1/2 Sparsity Constrained Nonnegative Matrix Factorization for Hyperspectral Unmixing. , 2010, , .		16
41	Deep Amended Gradient Descent for Efficient Spectral Reconstruction From Single RGB Images. IEEE Transactions on Computational Imaging, 2021, 7, 1176-1188.	4.4	16
42	Unsupervised Spatial-Spectral CNN-Based Feature Learning for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-17.	6.3	16
43	Statictics of Gabor features for coin recognition. , 2009, , .		15
44	Feature extraction and selection hybrid algorithm for hyperspectral imagery classification. , 2010, , .		15
45	Bidirectional Long Short-Term Memory Network for Vehicle Behavior Recognition. Remote Sensing, 2018, 10, 887.	4.0	15
46	Multiview Spatialâ€“Spectral Active Learning for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	6.3	15
47	Gradient Feature-Oriented 3-D Domain Adaptation for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-17.	6.3	14
48	Fusion of Hyperspectral and Multispectral Images Accounting for Localized Inter-Image Changes. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-18.	6.3	13
49	Shearlet-Based Structure-Aware Filtering for Hyperspectral and LiDAR Data Classification. Journal of Remote Sensing, 2021, 2021, .	6.7	12
50	A Multiscale Superpixel-Level Group Clustering Framework for Hyperspectral Band Selection. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-18.	6.3	12
51	Hyperspectral Imagery Spatial Super-Resolution Using Generative Adversarial Network. IEEE Transactions on Computational Imaging, 2021, 7, 948-960.	4.4	10
52	Band selection for Gabor feature based hyperspectral palmprint recognition. , 2015, , .		9
53	An enhanced density peak-based clustering approach for hyperspectral band selection. , 2015, , .		8
54	Memetic Ant Colony Optimization for Band Selection of Hyperspectral Imagery Classification. , 2010, , .		7

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55	Extended Morphological Profile-based Gabor Wavelets for Hyperspectral Image Classification. , 2018, , .		7
56	A global and local feature weighted method for ancient murals inpainting. International Journal of Machine Learning and Cybernetics, 2020, 11, 1197-1216.	3.6	7
57	Noise reduction of hyperspectral imagery based on nonlocal tensor factorization. , 2013, , .		6
58	Hierarchical alternating least squares algorithm with Sparsity Constraint for hyperspectral unmixing. , 2010, , .		5
59	Superpixel-level sparse representation-based classification for hyperspectral imagery. , 2016, , .		5
60	Improved Stone’s Complexity Pursuit for Hyperspectral Imagery Unmixing. , 2006, , .		4
61	A Gabor feature fusion framework for hyperspectral imagery classification. , 2017, , .		4
62	Identification of spectral features in the longwave infrared (LWIR) spectra of leaves for the discrimination of tropical dry forest tree species. International Journal of Applied Earth Observation and Geoinformation, 2021, 97, 102286.	2.8	4
63	Geographic Semantic Network for Cross-View Image Geo-Localization. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	6.3	4
64	Sparsity Constrained Fusion of Hyperspectral and Multispectral Images. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	4
65	A 3D Lightweight Siamese Network for Hyperspectral Image Classification with Limited Samples. , 2021, , .		4
66	Markov model based time series similarity measuring. , 0, , .		3
67	Affinity propagation based memetic band selection on hyperspectral imagery datasets. , 2010, , .		3
68	Three-dimensional local binary patterns for hyperspectral imagery classification. , 2016, , .		3
69	Fuzzy threshold-based uniform local binary patterns for hyperspectral imagery classification. , 2016, , .		3
70	An efficient superpixel-based sparse representation framework for hyperspectral image classification. International Journal of Wavelets, Multiresolution and Information Processing, 2017, 15, 1750061.	1.3	3
71	Superpixel-Guided Variable Gabor Phase Coding Fusion for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	6.3	3
72	Research on sunken & submerged oil detection and its behavior process under the action of breaking waves based on YOLO v4 algorithm. Marine Pollution Bulletin, 2022, 179, 113682.	5.0	3

#	Article	IF	Citations
73	MRF-ICA MIXTURE MODEL FOR HYPERSPECTRAL IMAGERY UNMIXING. International Journal of Wavelets, Multiresolution and Information Processing, 2007, 05, 113-127.	1.3	2
74	Nonnegative matrix factorization with piecewise smoothness constraint for hyperspectral unmixing. , 2008, , .		2
75	A CW-SSIM distance measure-based affinity propagation for hyperspectral band selection. , 2013, , .		2
76	Visualization of hyperspectral imagery based on manifold learning. , 2013, , .		2
77	Hyperspectral image classification using Fisher criterion-based Gabor cube selection and multi-task joint sparse representation. , 2015, , .		2
78	Multi-Feature-Based Decision Fusion Framework for Hyperspectral Imagery Classification. , 2018, , .		2
79	Superpixel-Based Feature Extraction and Fusion Method for Hyperspectral and LiDAR Classification. , 2018, , .		2
80	An Efficient Gabor Feature-Based Multi-task Joint Support Vector Machines Framework for Hyperspectral Image Classification. Communications in Computer and Information Science, 2016, , 14-25.	0.5	2
81	Spectral Context-aware Transformer for Cholangiocarcinoma Hyperspectral Image Segmentation. , 2022, , .		2
82	A kernel fractional-step nonlinear discriminant analysis for pattern recognition. , 2004, , .		1
83	An advanced segmental semi-Markov model based online series pattern detection. , 2004, , .		1
84	Band selection based hyperspectral unmixing. , 2009, , .		1
85	Minimum variance block-based nonnegative matrix factorization algorithm for hyperspectral unmixing. , 2012, , .		1
86	An effective collaborative representation algorithm for hyperspectral image classification. , 2014, , .		1
87	Gabor feature based dictionary fusion for hyperspectral imagery classification. , 2015, , .		1
88	Three-Dimensional Surface Feature for Hyperspectral Imagery Classification. Lecture Notes in Computer Science, 2017, , 270-278.	1.3	1
89	Multiscale superpixel-based fusion framework for hyperspectral image classification. , 2018, , .		1
90	2D Gabor-Based Sparse Representation Classification for Hyperspectral Imagery. , 2018, , .		1

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91	Statistical Fusion-Based Transfer Learning for Hyperspectral Image Classification. , 2019, , .		1
92	Multiscale Spatial-spectral Joint Feature Learning for Multispectral and Hyperspectral Image Fusion. , 2021, , .		1
93	Modified kernel-based nonlinear feature extraction [face recognition example]. , 0, , .		0
94	A hybrid online series pattern detection algorithm. , 0, , .		0
95	Regularized logistic regression method for change detection in multispectral data via Pathwise Coordinate optimization. , 2010, , .		0
96	Feature Selection Technique for Hyperspectral Imagery Classification with Noise Reduction Preprocessing. , 2010, , .		0
97	Band selection-based Gabor wavelet feature extraction for hyperspectral imagery classification. , 2012, , .		0
98	AN ℓ<inf>1/2</inf> regularized low-rank representation for hyperspectral imagery classification. , 2015, , .		0
99	Gabor feature based support vector guided dictionary learning for hyperspectral image classification. , 2017, , .		0
100	Gabor phase feature-based hyperspectral imagery classification. , 2017, , .		0
101	3D-Gabor-Based Feature Selection Via Enhanced Fast Density-Peak-Based Clustering. , 2018, , .		0
102	Gabor Wavelet Based Feature Extraction and Fusion for Hyperspectral and Lidar Remote Sensing Data. , 2018, , .		0
103	Multi-Task Embedded Convolutional Neural Network for Hyperspectral Image Classification. , 2019, , .		0
104	Superpixel Regularized Multiple kernel Gabor Fusion for Hyperspectral Image Classification. , 2021, , .		0
105	Local-Global-Aware Convolutional Transformer for Hyperspectral Image Classification. , 2021, , .		0
106	Combining artificial intelligence and laboratory experiments to explore behavior process of sunken and submerged oil: A typical oil drift and diffusion detection technology. Journal of Cleaner Production, 2022, 367, 133026.	9.3	0