

Leyuan Fang

List of Publications by Year in descending order

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132
papers

11,176
citations

34076

52
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30058

103
g-index

132
all docs

132
docs citations

132
times ranked

6791
citing authors

#	ARTICLE	IF	CITATIONS
1	Deep Learning for Hyperspectral Image Classification: An Overview. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 6690-6709.	2.7	977
2	Pixel-level image fusion: A survey of the state of the art. Information Fusion, 2017, 33, 100-112.	11.7	880
3	Automatic segmentation of nine retinal layer boundaries in OCT images of non-exudative AMD patients using deep learning and graph search. Biomedical Optics Express, 2017, 8, 2732.	1.5	396
4	Hyperspectral Image Classification With Deep Feature Fusion Network. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 3173-3184.	2.7	388
5	Fusing Hyperspectral and Multispectral Images via Coupled Sparse Tensor Factorization. IEEE Transactions on Image Processing, 2018, 27, 4118-4130.	6.0	353
6	Classification of Hyperspectral Images by Exploiting Spectral-Spatial Information of Superpixel via Multiple Kernels. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 6663-6674.	2.7	326
7	Group-Sparse Representation With Dictionary Learning for Medical Image Denoising and Fusion. IEEE Transactions on Biomedical Engineering, 2012, 59, 3450-3459.	2.5	300
8	Spectral-Spatial Hyperspectral Image Classification via Multiscale Adaptive Sparse Representation. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 7738-7749.	2.7	286
9	Estimation of crop LAI using hyperspectral vegetation indices and a hybrid inversion method. Remote Sensing of Environment, 2015, 165, 123-134.	4.6	269
10	Remote Sensing Image Fusion via Sparse Representations Over Learned Dictionaries. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 4779-4789.	2.7	268
11	Deep Hyperspectral Image Sharpening. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 5345-5355.	7.2	266
12	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.	4.9	255
13	Learning a Low Tensor-Train Rank Representation for Hyperspectral Image Super-Resolution. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 2672-2683.	7.2	247
14	Remote Sensing Scene Classification Using Multilayer Stacked Covariance Pooling. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 6899-6910.	2.7	232
15	Spectral-Spatial Classification of Hyperspectral Images With a Superpixel-Based Discriminative Sparse Model. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 4186-4201.	2.7	229
16	Sparsity based denoising of spectral domain optical coherence tomography images. Biomedical Optics Express, 2012, 3, 927.	1.5	225
17	Hyperspectral Image Super-Resolution via Non-local Sparse Tensor Factorization. , 2017, , .		195
18	Fast Acquisition and Reconstruction of Optical Coherence Tomography Images via Sparse Representation. IEEE Transactions on Medical Imaging, 2013, 32, 2034-2049.	5.4	191

#	ARTICLE	IF	CITATIONS
19	Feature Extraction With Multiscale Covariance Maps for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 755-769.	2.7	182
20	Deformable Convolutional Neural Networks for Hyperspectral Image Classification. IEEE Geoscience and Remote Sensing Letters, 2018, 15, 1254-1258.	1.4	171
21	Scale-Free Convolutional Neural Network for Remote Sensing Scene Classification. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 6916-6928.	2.7	157
22	A New Spatial-Spectral Feature Extraction Method for Hyperspectral Images Using Local Covariance Matrix Representation. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 3534-3546.	2.7	153
23	Intrinsic Image Decomposition for Feature Extraction of Hyperspectral Images. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 2241-2253.	2.7	148
24	Hyperspectral Image Classification via Multiple-Feature-Based Adaptive Sparse Representation. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 1646-1657.	2.4	147
25	Attention to Lesion: Lesion-Aware Convolutional Neural Network for Retinal Optical Coherence Tomography Image Classification. IEEE Transactions on Medical Imaging, 2019, 38, 1959-1970.	5.4	146
26	Skip-Connected Covariance Network for Remote Sensing Scene Classification. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 1461-1474.	7.2	146
27	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.	2.3	129
28	Spectral-Spatial Adaptive Sparse Representation for Hyperspectral Image Denoising. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 373-385.	2.7	119
29	Self-Attention-Based Deep Feature Fusion for Remote Sensing Scene Classification. IEEE Geoscience and Remote Sensing Letters, 2021, 18, 43-47.	1.4	115
30	Spectral-Spatial Hyperspectral Image Classification Based on KNN. Sensing and Imaging, 2016, 17, 1.	1.0	111
31	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.	2.3	108
32	Segmentation Based Sparse Reconstruction of Optical Coherence Tomography Images. IEEE Transactions on Medical Imaging, 2017, 36, 407-421.	5.4	107
33	Nonlocal Sparse Tensor Factorization for Semiblind Hyperspectral and Multispectral Image Fusion. IEEE Transactions on Cybernetics, 2020, 50, 4469-4480.	6.2	107
34	Extended Random Walker-Based Classification of Hyperspectral Images. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 144-153.	2.7	104
35	Extinction Profiles Fusion for Hyperspectral Images Classification. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 1803-1815.	2.7	104
36	Super-resolution of hyperspectral image via superpixel-based sparse representation. Neurocomputing, 2018, 273, 171-177.	3.5	100

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37	Multispectral and hyperspectral image fusion with spatial-spectral sparse representation. Information Fusion, 2019, 49, 262-270.	11.7	95
38	Simultaneous denoising and super-resolution of optical coherence tomography images based on generative adversarial network. Optics Express, 2019, 27, 12289.	1.7	94
39	Simultaneous image fusion and super-resolution using sparse representation. Information Fusion, 2013, 14, 229-240.	11.7	92
40	Automatic Classification of Retinal Optical Coherence Tomography Images With Layer Guided Convolutional Neural Network. IEEE Signal Processing Letters, 2019, 26, 1026-1030.	2.1	86
41	Hyperspectral Image Classification With Squeeze Multibias Network. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 1291-1301.	2.7	79
42	Iterative fusion convolutional neural networks for classification of optical coherence tomography images. Journal of Visual Communication and Image Representation, 2019, 59, 327-333.	1.7	75
43	RRNet: Relational Reasoning Network With Parallel Multiscale Attention for Salient Object Detection in Optical Remote Sensing Images. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-11.	2.7	75
44	Hybrid first and second order attention Unet for building segmentation in remote sensing images. Science China Information Sciences, 2020, 63, 1.	2.7	73
45	Probabilistic Fusion of Pixel-Level and Superpixel-Level Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 7416-7430.	2.7	71
46	From Subpixel to Superpixel: A Novel Fusion Framework for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 4398-4411.	2.7	71
47	Open source software for automatic detection of cone photoreceptors in adaptive optics ophthalmoscopy using convolutional neural networks. Scientific Reports, 2017, 7, 6620.	1.6	65
48	Deep Spatial-Spectral Subspace Clustering for Hyperspectral Image. IEEE Transactions on Circuits and Systems for Video Technology, 2021, 31, 2686-2697.	5.6	65
49	Self-Supervised Learning With Adaptive Distillation for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	2.7	62
50	An Efficient Dictionary Learning Algorithm and Its Application to 3-D Medical Image Denoising. IEEE Transactions on Biomedical Engineering, 2012, 59, 417-427.	2.5	59
51	Extended Random Walker for Shadow Detection in Very High Resolution Remote Sensing Images. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 867-876.	2.7	55
52	Multiscale Densely-Connected Fusion Networks for Hyperspectral Images Classification. IEEE Transactions on Circuits and Systems for Video Technology, 2021, 31, 246-259.	5.6	53
53	Set-to-Set Distance-Based Spectral-Spatial Classification of Hyperspectral Images. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 7122-7134.	2.7	52
54	Adaptive Spectral-Spatial Compression of Hyperspectral Image With Sparse Representation. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 671-682.	2.7	51

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55	Residual Encoder-Decoder Conditional Generative Adversarial Network for Pansharpening. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 1573-1577.	1.4	49
56	Deep longitudinal transfer learning-based automatic segmentation of photoreceptor ellipsoid zone defects on optical coherence tomography images of macular telangiectasia type 2. Biomedical Optics Express, 2018, 9, 2681.	1.5	48
57	Deep Hashing Neural Networks for Hyperspectral Image Feature Extraction. IEEE Geoscience and Remote Sensing Letters, 2019, 16, 1412-1416.	1.4	48
58	Anomaly Detection for Medical Images Using Self-Supervised and Translation-Consistent Features. IEEE Transactions on Medical Imaging, 2021, 40, 3641-3651.	5.4	44
59	Tensor Completion via Nonlocal Low-Rank Regularization. IEEE Transactions on Cybernetics, 2019, 49, 2344-2354.	6.2	43
60	Multi-Modal Retinal Image Classification With Modality-Specific Attention Network. IEEE Transactions on Medical Imaging, 2021, 40, 1591-1602.	5.4	43
61	Region-Enhanced Convolutional Neural Network for Object Detection in Remote Sensing Images. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 5693-5702.	2.7	41
62	Multiple convolutional layers fusion framework for hyperspectral image classification. Neurocomputing, 2019, 339, 149-160.	3.5	40
63	Hyperspectral Image Denoising With Group Sparse and Low-Rank Tensor Decomposition. IEEE Access, 2018, 6, 1380-1390.	2.6	38
64	Hyperspectral Image Classification via Weighted Joint Nearest Neighbor and Sparse Representation. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 4063-4075.	2.3	38
65	Multispectral Change Detection With Bilinear Convolutional Neural Networks. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 1757-1761.	1.4	36
66	Robust Object Tracking Based on Principal Component Analysis and Local Sparse Representation. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 2863-2875.	2.4	34
67	Optical coherence tomography retinal image reconstruction via nonlocal weighted sparse representation. Journal of Biomedical Optics, 2018, 23, 1.	1.4	34
68	Three-dimensional optical coherence tomography image denoising through multi-input fully-convolutional networks. Computers in Biology and Medicine, 2019, 108, 1-8.	3.9	31
69	Noise-Powered Disentangled Representation for Unsupervised Speckle Reduction of Optical Coherence Tomography Images. IEEE Transactions on Medical Imaging, 2021, 40, 2600-2614.	5.4	31
70	Retinal optical coherence tomography image classification with label smoothing generative adversarial network. Neurocomputing, 2020, 405, 37-47.	3.5	31
71	Multitemporal Image Change Detection Using a Detail-Enhancing Approach With Nonsampled Contourlet Transform. IEEE Geoscience and Remote Sensing Letters, 2012, 9, 836-840.	1.4	30
72	Face Recognition by Exploiting Local Gabor Features With Multitask Adaptive Sparse Representation. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 2605-2615.	2.4	29

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73	Intra- and Inter-Slice Contrastive Learning for Point Supervised OCT Fluid Segmentation. IEEE Transactions on Image Processing, 2022, 31, 1870-1881.	6.0	28
74	SAR Image Despeckling Via Structural Sparse Representation. Sensing and Imaging, 2016, 17, 1.	1.0	27
75	Weighted Tensor Rank-1 Decomposition for Nonlocal Image Denoising. IEEE Transactions on Image Processing, 2019, 28, 2719-2730.	6.0	27
76	3-D Adaptive Sparsity Based Image Compression With Applications to Optical Coherence Tomography. IEEE Transactions on Medical Imaging, 2015, 34, 1306-1320.	5.4	26
77	Image-based seat belt detection. , 2011, , .		25
78	Hyperspectral Image Classification with Multi-Scale Feature Extraction. Remote Sensing, 2019, 11, 534.	1.8	25
79	Optical Remote Sensing Image Understanding With Weak Supervision: Concepts, methods, and perspectives. IEEE Geoscience and Remote Sensing Magazine, 2022, 10, 250-269.	4.9	24
80	Contextual Online Dictionary Learning for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 1336-1347.	2.7	22
81	Subpixel-Pixel-Superpixel Guided Fusion for Hyperspectral Anomaly Detection. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 5998-6007.	2.7	22
82	Adaptive Spatial Pyramid Constraint for Hyperspectral Image Classification With Limited Training Samples. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	2.7	22
83	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.	2.7	20
84	Automatic classification of retinal three-dimensional optical coherence tomography images using principal component analysis network with composite kernels. Journal of Biomedical Optics, 2017, 22, 1.	1.4	19
85	Super Resolution Guided Deep Network for Land Cover Classification From Remote Sensing Images. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-12.	2.7	19
86	Unsupervised Denoising of Optical Coherence Tomography Images With Nonlocal-Generative Adversarial Network. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-12.	2.4	18
87	Signal Denoising With Random Refined Orthogonal Matching Pursuit. IEEE Transactions on Instrumentation and Measurement, 2012, 61, 26-34.	2.4	17
88	Hyperspectral Image Super-Resolution via Local Low-Rank and Sparse Representations. , 2018, , .		17
89	Multiscale CNNs Ensemble Based Self-Learning for Hyperspectral Image Classification. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 1593-1597.	1.4	16
90	Attention-Based Octave Network for Hyperspectral Image Denoising. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 1089-1102.	2.3	13

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91	LDP-Net: An Unsupervised Pansharpening Network Based on Learnable Degradation Processes. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 5468-5479.	2.3	13
92	Deep Covariance Alignment for Domain Adaptive Remote Sensing Image Segmentation. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-11.	2.7	12
93	Multitemporal image change detection with compressed sparse representation. , 2011, , .		11
94	Meta-Pixel-Driven Embeddable Discriminative Target and Background Dictionary Pair Learning for Hyperspectral Target Detection. Remote Sensing, 2022, 14, 481.	1.8	11
95	Automatic detection and recognition of multiple macular lesions in retinal optical coherence tomography images with multi-instance multilabel learning. Journal of Biomedical Optics, 2017, 22, 066014.	1.4	10
96	Superpixel-based composite kernel for hyperspectral image classification. , 2015, , .		9
97	Spectral-Spatial Hyperspectral Image Classification Using Superpixel and Extreme Learning Machines. Communications in Computer and Information Science, 2014, , 159-167.	0.4	9
98	Flexible and Generalized Real Photograph Denoising Exploiting Dual Meta Attention. IEEE Transactions on Cybernetics, 2023, 53, 6395-6407.	6.2	9
99	Open-source, machine and deep learning-based automated algorithm for gestational age estimation through smartphone lens imaging. Biomedical Optics Express, 2018, 9, 6038.	1.5	8
100	Covariance Matrix Based Feature Fusion for Scene Classification. , 2018, , .		7
101	Hyperspectral image classification with a class-dependent spatial“spectral mixed metric. Pattern Recognition Letters, 2019, 123, 16-22.	2.6	7
102	Spectral-spatial hyperspectral image classification via superpixel merging and sparse representation. , 2015, , .		6
103	Non-local sparse representation for hyperspectral image super-resolution. , 2016, , .		6
104	Classification of hyperspectral images via weighted spatial correlation representation. Journal of Visual Communication and Image Representation, 2018, 56, 160-166.	1.7	6
105	Modeling Polarized Reflectance of Natural Land Surfaces Using Generalized Regression Neural Networks. Remote Sensing, 2020, 12, 248.	1.8	6
106	SCAF-Net: Scene Context Attention-Based Fusion Network for Vehicle Detection in Aerial Imagery. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	6
107	Pansharpening Based on Intrinsic Image Decomposition. Sensing and Imaging, 2014, 15, 1.	1.0	5
108	Multiscale Feature Extraction with Gaussian Curvature Filter for Hyperspectral Image Classification. , 2020, , .		5

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109	Adaptive Regional Multiple Features for Large-Scale High-Resolution Remote Sensing Image Registration. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	2.7	5
110	An Efficient Dictionary Learning Algorithm for Sparse Representation. , 2010, , .		4
111	Hyperspectral images classification by fusing extinction profiles feature. , 2017, , .		4
112	Fusing Information from Subpixel to Superpixel for Hyperspectral Anomaly Detection. , 2018, , .		4
113	Block-sparse compressed sensing: non-convex model and iterative re-weighted algorithm. Inverse Problems in Science and Engineering, 2013, 21, 141-154.	1.2	3
114	Ship Detection in Optical Satellite Image Based on RX Method and PCAnet. Sensing and Imaging, 2017, 18, 1.	1.0	3
115	Data-Driven Methods for the Estimation of Leaf Water and Dry Matter Content: Performances, Potential and Limitations. Sensors, 2020, 20, 5394.	2.1	3
116	Hyperspectral Image Classification by Exploiting the Spectral-Spatial Correlations in the Sparse Coefficients. Communications in Computer and Information Science, 2014, , 151-158.	0.4	3
117	An efficient learned dictionary and its application to non-local denoising. , 2010, , .		2
118	Global and Local Features Based Classification for Bleed-Through Removal. Sensing and Imaging, 2016, 17, 1.	1.0	2
119	Spectral-spatial online dictionary learning for hyperspectral image classification. , 2017, , .		2
120	High-Order Self-Attention Network for Remote Sensing Scene Classification. , 2019, , .		2
121	Oriented Spatial Correlative Aligned Feature for Remote Sensing Object Detection. , 2021, , .		2
122	A robust newton iterative algorithm for acoustic location based on solving linear matrix equations in the presence of various noises. Applied Intelligence, 2023, 53, 1219-1232.	3.3	2
123	Fuzzy connectedness road extraction from high resolution remote sensing image based on GMM-MRF. , 2013, , .		1
124	Decision fusion of pixel-level and superpixel-level hyperspectral image classifiers. , 2016, , .		1
125	Shadow detection in very high-resolution satellite images by extended random walker. , 2017, , .		1
126	Similarity-Preserving Deep Features for Hyperspectral Image Classification. , 2018, , .		1

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127	Graph based optic nerve head segmentation. , 2014, , .		0
128	Spectral-spatial hyperspectral classification via shape-adaptive sparse representation. , 2014, , .		0
129	High resolution visible image completion of urban region using corresponding hyperspectral image. , 2015, , .		0
130	A Novel Nonconvex Sparsity Measure for Hyperspectral Images Restoration. , 2018, , .		0
131	Reconstruction of Retinal OCT Images with Sparse Representation. Biological and Medical Physics Series, 2019, , 73-103.	0.3	0
132	Disentanglement Network for Unsupervised Speckle Reduction of Optical Coherence Tomography Images. Lecture Notes in Computer Science, 2020, , 675-684.	1.0	0