

Leyuan Fang

List of Publications by Citations

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122
papers

7,244
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45
h-index

84
g-index

132
ext. papers

8,950
ext. citations

6
avg, IF

6.83
L-index

#	Paper	IF	Citations
122	Pixel-level image fusion: A survey of the state of the art. <i>Information Fusion</i> , 2017 , 33, 100-112	16.7	581
121	Deep Learning for Hyperspectral Image Classification: An Overview. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019 , 57, 6690-6709	8.1	478
120	Automatic segmentation of nine retinal layer boundaries in OCT images of non-exudative AMD patients using deep learning and graph search. <i>Biomedical Optics Express</i> , 2017 , 8, 2732-2744	3.5	285
119	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2015 , 53, 6663-6674	8.1	263
118	Hyperspectral Image Classification With Deep Feature Fusion Network. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2018 , 56, 3173-3184	8.1	261
117	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2014 , 52, 7738-7749	8.1	248
116	Remote Sensing Image Fusion via Sparse Representations Over Learned Dictionaries. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2013 , 51, 4779-4789	8.1	225
115	Group-sparse representation with dictionary learning for medical image denoising and fusion. <i>IEEE Transactions on Biomedical Engineering</i> , 2012 , 59, 3450-9	5	217
114	Fusing Hyperspectral and Multispectral Images via Coupled Sparse Tensor Factorization. <i>IEEE Transactions on Image Processing</i> , 2018 ,	8.7	211
113	Spectral Spatial Classification of Hyperspectral Images With a Superpixel-Based Discriminative Sparse Model. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2015 , 53, 4186-4201	8.1	197
112	. <i>IEEE Geoscience and Remote Sensing Magazine</i> , 2018 , 6, 10-43	8.9	185
111	Deep Hyperspectral Image Sharpening. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2018 , 29, 5345-5355	10.3	168
110	Sparsity based denoising of spectral domain optical coherence tomography images. <i>Biomedical Optics Express</i> , 2012 , 3, 927-42	3.5	165
109	Estimation of crop LAI using hyperspectral vegetation indices and a hybrid inversion method. <i>Remote Sensing of Environment</i> , 2015 , 165, 123-134	13.2	158
108	Remote Sensing Scene Classification Using Multilayer Stacked Covariance Pooling. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2018 , 56, 6899-6910	8.1	148
107	Learning a Low Tensor-Train Rank Representation for Hyperspectral Image Super-Resolution. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2019 , 30, 2672-2683	10.3	145
106	Fast acquisition and reconstruction of optical coherence tomography images via sparse representation. <i>IEEE Transactions on Medical Imaging</i> , 2013 , 32, 2034-49	11.7	141

105	Feature Extraction With Multiscale Covariance Maps for Hyperspectral Image Classification. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019 , 57, 755-769	8.1	126
104	Hyperspectral Image Super-Resolution via Non-local Sparse Tensor Factorization 2017 ,		124
103	Deformable Convolutional Neural Networks for Hyperspectral Image Classification. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2018 , 15, 1254-1258	4.1	119
102	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2015 , 53, 2241-2253	8.1	117
101	Hyperspectral Image Classification via Multiple-Feature-Based Adaptive Sparse Representation. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2017 , 66, 1646-1657	5.2	114
100	A New Spatial-Spectral Feature Extraction Method for Hyperspectral Images Using Local Covariance Matrix Representation. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2018 , 56, 3534-3546	8.1	113
99	Scale-Free Convolutional Neural Network for Remote Sensing Scene Classification. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019 , 57, 6916-6928	8.1	101
98	Classification of Hyperspectral Images by Gabor Filtering Based Deep Network. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2018 , 11, 1166-1178	4.7	99
97	. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2016 , 9, 556-567	4.7	92
96	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2015 , 53, 144-153	8.1	88
95	Spectral-Spatial Adaptive Sparse Representation for Hyperspectral Image Denoising. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2016 , 54, 373-385	8.1	85
94	Super-resolution of hyperspectral image via superpixel-based sparse representation. <i>Neurocomputing</i> , 2018 , 273, 171-177	5.4	84
93	Segmentation Based Sparse Reconstruction of Optical Coherence Tomography Images. <i>IEEE Transactions on Medical Imaging</i> , 2017 , 36, 407-421	11.7	81
92	Extinction Profiles Fusion for Hyperspectral Images Classification. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2018 , 56, 1803-1815	8.1	80
91	Spectral-Spatial Hyperspectral Image Classification Based on KNN. <i>Sensing and Imaging</i> , 2016 , 17, 1	1.4	72
90	Attention to Lesion: Lesion-Aware Convolutional Neural Network for Retinal Optical Coherence Tomography Image Classification. <i>IEEE Transactions on Medical Imaging</i> , 2019 , 38, 1959-1970	11.7	71
89	Skip-Connected Covariance Network for Remote Sensing Scene Classification. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2020 , 31, 1461-1474	10.3	70
88	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2016 , 54, 7416-7430	8.1	63

87	Simultaneous image fusion and super-resolution using sparse representation. <i>Information Fusion</i> , 2013 , 14, 229-240	16.7	63
86	Hyperspectral Image Classification With Squeeze Multibias Network. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019 , 57, 1291-1301	8.1	57
85	Multispectral and hyperspectral image fusion with spatial-spectral sparse representation. <i>Information Fusion</i> , 2019 , 49, 262-270	16.7	53
84	From Subpixel to Superpixel: A Novel Fusion Framework for Hyperspectral Image Classification. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2017 , 55, 4398-4411	8.1	50
83	An efficient dictionary learning algorithm and its application to 3-D medical image denoising. <i>IEEE Transactions on Biomedical Engineering</i> , 2012 , 59, 417-27	5	49
82	Open source software for automatic detection of cone photoreceptors in adaptive optics ophthalmoscopy using convolutional neural networks. <i>Scientific Reports</i> , 2017 , 7, 6620	4.9	49
81	Self-Attention-Based Deep Feature Fusion for Remote Sensing Scene Classification. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2021 , 18, 43-47	4.1	48
80	Simultaneous denoising and super-resolution of optical coherence tomography images based on generative adversarial network. <i>Optics Express</i> , 2019 , 27, 12289-12307	3.3	47
79	Nonlocal Sparse Tensor Factorization for Semiblind Hyperspectral and Multispectral Image Fusion. <i>IEEE Transactions on Cybernetics</i> , 2020 , 50, 4469-4480	10.2	46
78	Set-to-Set Distance-Based SpectralSpatial Classification of Hyperspectral Images. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2016 , 54, 7122-7134	8.1	45
77	Hybrid first and second order attention Unet for building segmentation in remote sensing images. <i>Science China Information Sciences</i> , 2020 , 63, 1	3.4	40
76	Extended Random Walker for Shadow Detection in Very High Resolution Remote Sensing Images. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2018 , 56, 867-876	8.1	39
75	Automatic Classification of Retinal Optical Coherence Tomography Images With Layer Guided Convolutional Neural Network. <i>IEEE Signal Processing Letters</i> , 2019 , 26, 1026-1030	3.2	36
74	Deep longitudinal transfer learning-based automatic segmentation of photoreceptor ellipsoid zone defects on optical coherence tomography images of macular telangiectasia type 2. <i>Biomedical Optics Express</i> , 2018 , 9, 2681-2698	3.5	36
73	Iterative fusion convolutional neural networks for classification of optical coherence tomography images. <i>Journal of Visual Communication and Image Representation</i> , 2019 , 59, 327-333	2.7	35
72	Adaptive SpectralSpatial Compression of Hyperspectral Image With Sparse Representation. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2017 , 55, 671-682	8.1	35
71	Deep Hashing Neural Networks for Hyperspectral Image Feature Extraction. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2019 , 16, 1412-1416	4.1	33
70	Robust Object Tracking Based on Principal Component Analysis and Local Sparse Representation. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2015 , 64, 2863-2875	5.2	31

69	Multiscale Densely-Connected Fusion Networks for Hyperspectral Images Classification. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2021 , 31, 246-259	6.4	31
68	Hyperspectral Image Classification via Weighted Joint Nearest Neighbor and Sparse Representation. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2018 , 11, 4063-4075	4.7	31
67	Hyperspectral Image Denoising With Group Sparse and Low-Rank Tensor Decomposition. <i>IEEE Access</i> , 2018 , 6, 1380-1390	3.5	30
66	. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2021 , 31, 2686-2697	6.4	27
65	Multiple convolutional layers fusion framework for hyperspectral image classification. <i>Neurocomputing</i> , 2019 , 339, 149-160	5.4	26
64	Tensor Completion via Nonlocal Low-Rank Regularization. <i>IEEE Transactions on Cybernetics</i> , 2019 , 49, 2344-2354	10.2	26
63	Residual EncoderDecoder Conditional Generative Adversarial Network for Pansharpening. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2020 , 17, 1573-1577	4.1	26
62	Region-Enhanced Convolutional Neural Network for Object Detection in Remote Sensing Images. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020 , 58, 5693-5702	8.1	23
61	Self-Supervised Learning With Adaptive Distillation for Hyperspectral Image Classification. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021 , 1-13	8.1	22
60	Multitemporal Image Change Detection Using a Detail-Enhancing Approach With Nonsubsampled Contourlet Transform. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2012 , 9, 836-840	4.1	21
59	Face Recognition by Exploiting Local Gabor Features With Multitask Adaptive Sparse Representation. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2015 , 64, 2605-2615	5.2	20
58	3-D Adaptive Sparsity Based Image Compression With Applications to Optical Coherence Tomography. <i>IEEE Transactions on Medical Imaging</i> , 2015 , 34, 1306-20	11.7	20
57	RRNet: Relational Reasoning Network with Parallel Multi-scale Attention for Salient Object Detection in Optical Remote Sensing Images. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021 , 1-1	8.1	20
56	Three-dimensional optical coherence tomography image denoising through multi-input fully-convolutional networks. <i>Computers in Biology and Medicine</i> , 2019 , 108, 1-8	7	19
55	Contextual Online Dictionary Learning for Hyperspectral Image Classification. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2018 , 56, 1336-1347	8.1	18
54	Multispectral Change Detection With Bilinear Convolutional Neural Networks. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2020 , 17, 1757-1761	4.1	17
53	Optical coherence tomography retinal image reconstruction via nonlocal weighted sparse representation. <i>Journal of Biomedical Optics</i> , 2018 , 23, 1-11	3.5	17
52	Weighted Tensor Rank-1 Decomposition for Nonlocal Image Denoising. <i>IEEE Transactions on Image Processing</i> , 2018 ,	8.7	16

51	Subpixel-Pixel-Superpixel Guided Fusion for Hyperspectral Anomaly Detection. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020 , 58, 5998-6007	8.1	14
50	Signal Denoising With Random Refined Orthogonal Matching Pursuit. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2012 , 61, 26-34	5.2	14
49	Hyperspectral Image Classification with Multi-Scale Feature Extraction. <i>Remote Sensing</i> , 2019 , 11, 534	5	13
48	Automatic classification of retinal three-dimensional optical coherence tomography images using principal component analysis network with composite kernels. <i>Journal of Biomedical Optics</i> , 2017 , 22, 1-10	3.5	13
47	Retinal optical coherence tomography image classification with label smoothing generative adversarial network. <i>Neurocomputing</i> , 2020 , 405, 37-47	5.4	12
46	SAR Image Despeckling Via Structural Sparse Representation. <i>Sensing and Imaging</i> , 2016 , 17, 1	1.4	11
45	Image-based seat belt detection 2011 ,		11
44	Multiscale CNNs Ensemble Based Self-Learning for Hyperspectral Image Classification. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2020 , 17, 1593-1597	4.1	9
43	Multitemporal image change detection with compressed sparse representation 2011 ,		9
42	Unsupervised Denoising of Optical Coherence Tomography Images With Nonlocal-Generative Adversarial Network. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021 , 70, 1-12	5.2	9
41	Adaptive Spatial Pyramid Constraint for Hyperspectral Image Classification With Limited Training Samples. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021 , 1-14	8.1	9
40	Open-source, machine and deep learning-based automated algorithm for gestational age estimation through smartphone lens imaging. <i>Biomedical Optics Express</i> , 2018 , 9, 6038-6052	3.5	7
39	Hyperspectral Image Super-Resolution via Local Low-Rank and Sparse Representations 2018 ,		7
38	Covariance Matrix Based Feature Fusion for Scene Classification 2018 ,		7
37	Noise-Powered Disentangled Representation for Unsupervised Speckle Reduction of Optical Coherence Tomography Images. <i>IEEE Transactions on Medical Imaging</i> , 2021 , 40, 2600-2614	11.7	7
36	Hyperspectral image classification with a class-dependent spatial-spectral mixed metric. <i>Pattern Recognition Letters</i> , 2019 , 123, 16-22	4.7	6
35	Automatic detection and recognition of multiple macular lesions in retinal optical coherence tomography images with multi-instance multilabel learning. <i>Journal of Biomedical Optics</i> , 2017 , 22, 66014-5	3.5	6
34	Spectral-spatial hyperspectral image classification via superpixel merging and sparse representation 2015 ,		6

33	Super Resolution Guided Deep Network for Land Cover Classification from Remote Sensing Images. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021 , 1-1	8.1	6
32	Anomaly Detection for Medical Images Using Self-Supervised and Translation-Consistent Features. <i>IEEE Transactions on Medical Imaging</i> , 2021 , 40, 3641-3651	11.7	6
31	Non-local sparse representation for hyperspectral image super-resolution 2016 ,		5
30	Pansharpening Based on Intrinsic Image Decomposition. <i>Sensing and Imaging</i> , 2014 , 15, 1	1.4	5
29	Superpixel-based composite kernel for hyperspectral image classification 2015 ,		5
28	Spectral-Spatial Hyperspectral Image Classification Using Superpixel and Extreme Learning Machines. <i>Communications in Computer and Information Science</i> , 2014 , 159-167	0.3	5
27	Classification of hyperspectral images via weighted spatial correlation representation. <i>Journal of Visual Communication and Image Representation</i> , 2018 , 56, 160-166	2.7	5
26	Modeling Polarized Reflectance of Natural Land Surfaces Using Generalized Regression Neural Networks. <i>Remote Sensing</i> , 2020 , 12, 248	5	4
25	Multiscale Feature Extraction with Gaussian Curvature Filter for Hyperspectral Image Classification 2020 ,		4
24	Multi-Modal Retinal Image Classification With Modality-Specific Attention Network. <i>IEEE Transactions on Medical Imaging</i> , 2021 , 40, 1591-1602	11.7	4
23	Fusing Information from Subpixel to Superpixel for Hyperspectral Anomaly Detection 2018 ,		4
22	An Efficient Dictionary Learning Algorithm for Sparse Representation 2010 ,		3
21	NFANet: A Novel Method for Weakly Supervised Water Extraction from High-Resolution Remote Sensing Imagery. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022 , 1-1	8.1	3
20	Hyperspectral Image Classification by Exploiting the Spectral-Spatial Correlations in the Sparse Coefficients. <i>Communications in Computer and Information Science</i> , 2014 , 151-158	0.3	3
19	Optical Remote Sensing Image Understanding with Weak Supervision: Concepts, Methods, and Perspectives. <i>IEEE Geoscience and Remote Sensing Magazine</i> , 2022 , 2-21	8.9	3
18	Deep Covariance Alignment for Domain Adaptive Remote Sensing Image Segmentation. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022 , 1-1	8.1	3
17	Hyperspectral images classification by fusing extinction profiles feature 2017 ,		2
16	Global and Local Features Based Classification for Bleed-Through Removal. <i>Sensing and Imaging</i> , 2016 , 17, 1	1.4	2

15	Ship Detection in Optical Satellite Image Based on RX Method and PCAnet. <i>Sensing and Imaging</i> , 2017 , 18, 1	1.4	2
14	An efficient learned dictionary and its application to non-local denoising 2010 ,		2
13	Meta-Pixel-Driven Embeddable Discriminative Target and Background Dictionary Pair Learning for Hyperspectral Target Detection. <i>Remote Sensing</i> , 2022 , 14, 481	5	2
12	Intra- and Inter-Slice Contrastive Learning for Point Supervised OCT Fluid Segmentation.. <i>IEEE Transactions on Image Processing</i> , 2022 , PP,	8.7	2
11	. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2021 , 1-1	4.7	2
10	High-Order Self-Attention Network for Remote Sensing Scene Classification 2019 ,		2
9	SCAF-Net: Scene Context Attention-Based Fusion Network for Vehicle Detection in Aerial Imagery. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2021 , 1-5	4.1	2
8	Decision fusion of pixel-level and superpixel-level hyperspectral image classifiers 2016 ,		1
7	Fuzzy connectedness road extraction from high resolution remote sensing image based on GMM-MRF 2013 ,		1
6	Block-sparse compressed sensing: non-convex model and iterative re-weighted algorithm. <i>Inverse Problems in Science and Engineering</i> , 2013 , 21, 141-154	1.3	1
5	Adaptive Regional Multiple Features for Large-Scale High Resolution Remote Sensing Image Registration. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022 , 1-1	8.1	1
4	Similarity-Preserving Deep Features for Hyperspectral Image Classification 2018 ,		1
3	A robust newton iterative algorithm for acoustic location based on solving linear matrix equations in the presence of various noises. <i>Applied Intelligence</i> ,1	4.9	1
2	Reconstruction of Retinal OCT Images with Sparse Representation 2019 , 73-103		
1	Disentanglement Network for Unsupervised Speckle Reduction of Optical Coherence Tomography Images. <i>Lecture Notes in Computer Science</i> , 2020 , 675-684	0.9	