

# Leyuan Fang

## List of Publications by Year in Descending Order

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**Version:** 2024-04-23

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

122  
papers

7,244  
citations

45  
h-index

84  
g-index

132  
ext. papers

8,950  
ext. citations

6  
avg, IF

6.83  
L-index

#	Paper	IF	Citations
122	Meta-Pixel-Driven Embeddable Discriminative Target and Background Dictionary Pair Learning for Hyperspectral Target Detection. <i>Remote Sensing</i> , <b>2022</b> , 14, 481	5	2
121	Adaptive Regional Multiple Features for Large-Scale High Resolution Remote Sensing Image Registration. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2022</b> , 1-1	8.1	1
120	Intra- and Inter-Slice Contrastive Learning for Point Supervised OCT Fluid Segmentation.. <i>IEEE Transactions on Image Processing</i> , <b>2022</b> , PP,	8.7	2
119	NFANet: A Novel Method for Weakly Supervised Water Extraction from High-Resolution Remote Sensing Imagery. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2022</b> , 1-1	8.1	3
118	Optical Remote Sensing Image Understanding with Weak Supervision: Concepts, Methods, and Perspectives. <i>IEEE Geoscience and Remote Sensing Magazine</i> , <b>2022</b> , 2-21	8.9	3
117	Deep Covariance Alignment for Domain Adaptive Remote Sensing Image Segmentation. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2022</b> , 1-1	8.1	3
116	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> , <b>2021</b> , 1-1	8.1	20
115	. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , <b>2021</b> , 1-1	4.7	2
114	Super Resolution Guided Deep Network for Land Cover Classification from Remote Sensing Images. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2021</b> , 1-1	8.1	6
113	Multi-Modal Retinal Image Classification With Modality-Specific Attention Network. <i>IEEE Transactions on Medical Imaging</i> , <b>2021</b> , 40, 1591-1602	11.7	4
112	Self-Attention-Based Deep Feature Fusion for Remote Sensing Scene Classification. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2021</b> , 18, 43-47	4.1	48
111	Multiscale Densely-Connected Fusion Networks for Hyperspectral Images Classification. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , <b>2021</b> , 31, 246-259	6.4	31
110	. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , <b>2021</b> , 31, 2686-2697	6.4	27
109	Unsupervised Denoising of Optical Coherence Tomography Images With Nonlocal-Generative Adversarial Network. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2021</b> , 70, 1-12	5.2	9
108	Adaptive Spatial Pyramid Constraint for Hyperspectral Image Classification With Limited Training Samples. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2021</b> , 1-14	8.1	9
107	Noise-Powered Disentangled Representation for Unsupervised Speckle Reduction of Optical Coherence Tomography Images. <i>IEEE Transactions on Medical Imaging</i> , <b>2021</b> , 40, 2600-2614	11.7	7
106	Self-Supervised Learning With Adaptive Distillation for Hyperspectral Image Classification. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2021</b> , 1-13	8.1	22

105	Anomaly Detection for Medical Images Using Self-Supervised and Translation-Consistent Features. <i>IEEE Transactions on Medical Imaging</i> , <b>2021</b> , 40, 3641-3651	11.7	6
104	SCAF-Net: Scene Context Attention-Based Fusion Network for Vehicle Detection in Aerial Imagery. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2021</b> , 1-5	4.1	2
103	Hybrid first and second order attention Unet for building segmentation in remote sensing images. <i>Science China Information Sciences</i> , <b>2020</b> , 63, 1	3.4	40
102	Modeling Polarized Reflectance of Natural Land Surfaces Using Generalized Regression Neural Networks. <i>Remote Sensing</i> , <b>2020</b> , 12, 248	5	4
101	Subpixel-Pixel-Superpixel Guided Fusion for Hyperspectral Anomaly Detection. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2020</b> , 58, 5998-6007	8.1	14
100	Multispectral Change Detection With Bilinear Convolutional Neural Networks. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2020</b> , 17, 1757-1761	4.1	17
99	Multiscale CNNs Ensemble Based Self-Learning for Hyperspectral Image Classification. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2020</b> , 17, 1593-1597	4.1	9
98	Region-Enhanced Convolutional Neural Network for Object Detection in Remote Sensing Images. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2020</b> , 58, 5693-5702	8.1	23
97	Multiscale Feature Extraction with Gaussian Curvature Filter for Hyperspectral Image Classification <b>2020</b> ,		4
96	Disentanglement Network for Unsupervised Speckle Reduction of Optical Coherence Tomography Images. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 675-684	0.9	
95	Retinal optical coherence tomography image classification with label smoothing generative adversarial network. <i>Neurocomputing</i> , <b>2020</b> , 405, 37-47	5.4	12
94	Nonlocal Sparse Tensor Factorization for Semiblind Hyperspectral and Multispectral Image Fusion. <i>IEEE Transactions on Cybernetics</i> , <b>2020</b> , 50, 4469-4480	10.2	46
93	Residual EncoderDecoder Conditional Generative Adversarial Network for Pansharpening. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2020</b> , 17, 1573-1577	4.1	26
92	Skip-Connected Covariance Network for Remote Sensing Scene Classification. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2020</b> , 31, 1461-1474	10.3	70
91	Iterative fusion convolutional neural networks for classification of optical coherence tomography images. <i>Journal of Visual Communication and Image Representation</i> , <b>2019</b> , 59, 327-333	2.7	35
90	Three-dimensional optical coherence tomography image denoising through multi-input fully-convolutional networks. <i>Computers in Biology and Medicine</i> , <b>2019</b> , 108, 1-8	7	19
89	Multispectral and hyperspectral image fusion with spatial-spectral sparse representation. <i>Information Fusion</i> , <b>2019</b> , 49, 262-270	16.7	53
88	Automatic Classification of Retinal Optical Coherence Tomography Images With Layer Guided Convolutional Neural Network. <i>IEEE Signal Processing Letters</i> , <b>2019</b> , 26, 1026-1030	3.2	36

87	Scale-Free Convolutional Neural Network for Remote Sensing Scene Classification. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2019</b> , 57, 6916-6928	8.1	101
86	Deep Learning for Hyperspectral Image Classification: An Overview. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2019</b> , 57, 6690-6709	8.1	478
85	Deep Hashing Neural Networks for Hyperspectral Image Feature Extraction. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2019</b> , 16, 1412-1416	4.1	33
84	Hyperspectral Image Classification with Multi-Scale Feature Extraction. <i>Remote Sensing</i> , <b>2019</b> , 11, 534	5	13
83	Multiple convolutional layers fusion framework for hyperspectral image classification. <i>Neurocomputing</i> , <b>2019</b> , 339, 149-160	5.4	26
82	Hyperspectral image classification with a class-dependent spatial-spectral mixed metric. <i>Pattern Recognition Letters</i> , <b>2019</b> , 123, 16-22	4.7	6
81	Tensor Completion via Nonlocal Low-Rank Regularization. <i>IEEE Transactions on Cybernetics</i> , <b>2019</b> , 49, 2344-2354	10.2	26
80	Reconstruction of Retinal OCT Images with Sparse Representation <b>2019</b> , 73-103		
79	Simultaneous denoising and super-resolution of optical coherence tomography images based on generative adversarial network. <i>Optics Express</i> , <b>2019</b> , 27, 12289-12307	3.3	47
78	Attention to Lesion: Lesion-Aware Convolutional Neural Network for Retinal Optical Coherence Tomography Image Classification. <i>IEEE Transactions on Medical Imaging</i> , <b>2019</b> , 38, 1959-1970	11.7	71
77	High-Order Self-Attention Network for Remote Sensing Scene Classification <b>2019</b> ,		2
76	Feature Extraction With Multiscale Covariance Maps for Hyperspectral Image Classification. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2019</b> , 57, 755-769	8.1	126
75	Hyperspectral Image Classification With Squeeze Multibias Network. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2019</b> , 57, 1291-1301	8.1	57
74	Learning a Low Tensor-Train Rank Representation for Hyperspectral Image Super-Resolution. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2019</b> , 30, 2672-2683	10.3	145
73	Hyperspectral Image Classification With Deep Feature Fusion Network. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2018</b> , 56, 3173-3184	8.1	261
72	Deep Hyperspectral Image Sharpening. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2018</b> , 29, 5345-5355	10.3	168
71	Contextual Online Dictionary Learning for Hyperspectral Image Classification. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2018</b> , 56, 1336-1347	8.1	18
70	Extinction Profiles Fusion for Hyperspectral Images Classification. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2018</b> , 56, 1803-1815	8.1	80

69	Hyperspectral Image Denoising With Group Sparse and Low-Rank Tensor Decomposition. <i>IEEE Access</i> , <b>2018</b> , 6, 1380-1390	3.5	30
68	Classification of Hyperspectral Images by Gabor Filtering Based Deep Network. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , <b>2018</b> , 11, 1166-1178	4.7	99
67	A New Spatial-Spectral Feature Extraction Method for Hyperspectral Images Using Local Covariance Matrix Representation. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2018</b> , 56, 3534-3546	8.1	113
66	Super-resolution of hyperspectral image via superpixel-based sparse representation. <i>Neurocomputing</i> , <b>2018</b> , 273, 171-177	5.4	84
65	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> , <b>2018</b> , 9, 2681-2698	3.5	36
64	Remote Sensing Scene Classification Using Multilayer Stacked Covariance Pooling. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2018</b> , 56, 6899-6910	8.1	148
63	Optical coherence tomography retinal image reconstruction via nonlocal weighted sparse representation. <i>Journal of Biomedical Optics</i> , <b>2018</b> , 23, 1-11	3.5	17
62	Open-source, machine and deep learning-based automated algorithm for gestational age estimation through smartphone lens imaging. <i>Biomedical Optics Express</i> , <b>2018</b> , 9, 6038-6052	3.5	7
61	Weighted Tensor Rank-1 Decomposition for Nonlocal Image Denoising. <i>IEEE Transactions on Image Processing</i> , <b>2018</b> ,	8.7	16
60	Extended Random Walker for Shadow Detection in Very High Resolution Remote Sensing Images. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2018</b> , 56, 867-876	8.1	39
59	Similarity-Preserving Deep Features for Hyperspectral Image Classification <b>2018</b> ,		1
58	Fusing Information from Subpixel to Superpixel for Hyperspectral Anomaly Detection <b>2018</b> ,		4
57	Hyperspectral Image Super-Resolution via Local Low-Rank and Sparse Representations <b>2018</b> ,		7
56	Covariance Matrix Based Feature Fusion for Scene Classification <b>2018</b> ,		7
55	. <i>IEEE Geoscience and Remote Sensing Magazine</i> , <b>2018</b> , 6, 10-43	8.9	185
54	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> , <b>2018</b> , 11, 4063-4075	4.7	31
53	Classification of hyperspectral images via weighted spatial correlation representation. <i>Journal of Visual Communication and Image Representation</i> , <b>2018</b> , 56, 160-166	2.7	5
52	Fusing Hyperspectral and Multispectral Images via Coupled Sparse Tensor Factorization. <i>IEEE Transactions on Image Processing</i> , <b>2018</b> ,	8.7	211

51	Deformable Convolutional Neural Networks for Hyperspectral Image Classification. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2018</b> , 15, 1254-1258	4.1	119
50	Pixel-level image fusion: A survey of the state of the art. <i>Information Fusion</i> , <b>2017</b> , 33, 100-112	16.7	581
49	From Subpixel to Superpixel: A Novel Fusion Framework for Hyperspectral Image Classification. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2017</b> , 55, 4398-4411	8.1	50
48	Hyperspectral Image Classification via Multiple-Feature-Based Adaptive Sparse Representation. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2017</b> , 66, 1646-1657	5.2	114
47	Hyperspectral images classification by fusing extinction profiles feature <b>2017</b> ,		2
46	Open source software for automatic detection of cone photoreceptors in adaptive optics ophthalmoscopy using convolutional neural networks. <i>Scientific Reports</i> , <b>2017</b> , 7, 6620	4.9	49
45	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> , <b>2017</b> , 22, 66014	3.5	6
44	Ship Detection in Optical Satellite Image Based on RX Method and PCAnet. <i>Sensing and Imaging</i> , <b>2017</b> , 18, 1	1.4	2
43	Adaptive Spectral-Spatial Compression of Hyperspectral Image With Sparse Representation. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2017</b> , 55, 671-682	8.1	35
42	Segmentation Based Sparse Reconstruction of Optical Coherence Tomography Images. <i>IEEE Transactions on Medical Imaging</i> , <b>2017</b> , 36, 407-421	11.7	81
41	Hyperspectral Image Super-Resolution via Non-local Sparse Tensor Factorization <b>2017</b> ,		124
40	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> , <b>2017</b> , 8, 2732-2744	3.5	285
39	Automatic classification of retinal three-dimensional optical coherence tomography images using principal component analysis network with composite kernels. <i>Journal of Biomedical Optics</i> , <b>2017</b> , 22, 1-10	3.5	13
38	. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , <b>2016</b> , 9, 556-567	4.7	92
37	Non-local sparse representation for hyperspectral image super-resolution <b>2016</b> ,		5
36	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2016</b> , 54, 7416-7430	8.1	63
35	Set-to-Set Distance-Based Spectral-Spatial Classification of Hyperspectral Images. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2016</b> , 54, 7122-7134	8.1	45
34	Decision fusion of pixel-level and superpixel-level hyperspectral image classifiers <b>2016</b> ,		1

33	Global and Local Features Based Classification for Bleed-Through Removal. <i>Sensing and Imaging</i> , <b>2016</b> , 17, 1	1.4	2
32	SpectralSpatial Hyperspectral Image Classification Based on KNN. <i>Sensing and Imaging</i> , <b>2016</b> , 17, 1	1.4	72
31	SAR Image Despeckling Via Structural Sparse Representation. <i>Sensing and Imaging</i> , <b>2016</b> , 17, 1	1.4	11
30	SpectralSpatial Adaptive Sparse Representation for Hyperspectral Image Denoising. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2016</b> , 54, 373-385	8.1	85
29	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2015</b> , 53, 6663-6674	8.1	263
28	Robust Object Tracking Based on Principal Component Analysis and Local Sparse Representation. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2015</b> , 64, 2863-2875	5.2	31
27	SpectralSpatial Classification of Hyperspectral Images With a Superpixel-Based Discriminative Sparse Model. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2015</b> , 53, 4186-4201	8.1	197
26	Face Recognition by Exploiting Local Gabor Features With Multitask Adaptive Sparse Representation. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2015</b> , 64, 2605-2615	5.2	20
25	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2015</b> , 53, 144-153	8.1	88
24	Superpixel-based composite kernel for hyperspectral image classification <b>2015</b> ,		5
23	3-D Adaptive Sparsity Based Image Compression With Applications to Optical Coherence Tomography. <i>IEEE Transactions on Medical Imaging</i> , <b>2015</b> , 34, 1306-20	11.7	20
22	Estimation of crop LAI using hyperspectral vegetation indices and a hybrid inversion method. <i>Remote Sensing of Environment</i> , <b>2015</b> , 165, 123-134	13.2	158
21	Spectral-spatial hyperspectral image classification via superpixel merging and sparse representation <b>2015</b> ,		6
20	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2015</b> , 53, 2241-2253	8.1	117
19	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2014</b> , 52, 7738-7749	8.1	248
18	Pansharpening Based on Intrinsic Image Decomposition. <i>Sensing and Imaging</i> , <b>2014</b> , 15, 1	1.4	5
17	Spectral-Spatial Hyperspectral Image Classification Using Superpixel and Extreme Learning Machines. <i>Communications in Computer and Information Science</i> , <b>2014</b> , 159-167	0.3	5
16	Hyperspectral Image Classification by Exploiting the Spectral-Spatial Correlations in the Sparse Coefficients. <i>Communications in Computer and Information Science</i> , <b>2014</b> , 151-158	0.3	3

15	Remote Sensing Image Fusion via Sparse Representations Over Learned Dictionaries. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2013</b> , 51, 4779-4789	8.1	225
14	Fuzzy connectedness road extraction from high resolution remote sensing image based on GMM-MRF <b>2013</b> ,		1
13	Simultaneous image fusion and super-resolution using sparse representation. <i>Information Fusion</i> , <b>2013</b> , 14, 229-240	16.7	63
12	Fast acquisition and reconstruction of optical coherence tomography images via sparse representation. <i>IEEE Transactions on Medical Imaging</i> , <b>2013</b> , 32, 2034-49	11.7	141
11	Block-sparse compressed sensing: non-convex model and iterative re-weighted algorithm. <i>Inverse Problems in Science and Engineering</i> , <b>2013</b> , 21, 141-154	1.3	1
10	An efficient dictionary learning algorithm and its application to 3-D medical image denoising. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2012</b> , 59, 417-27	5	49
9	Signal Denoising With Random Refined Orthogonal Matching Pursuit. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2012</b> , 61, 26-34	5.2	14
8	Multitemporal Image Change Detection Using a Detail-Enhancing Approach With Nonsubsampled Contourlet Transform. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2012</b> , 9, 836-840	4.1	21
7	Group-sparse representation with dictionary learning for medical image denoising and fusion. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2012</b> , 59, 3450-9	5	217
6	Sparsity based denoising of spectral domain optical coherence tomography images. <i>Biomedical Optics Express</i> , <b>2012</b> , 3, 927-42	3.5	165
5	Image-based seat belt detection <b>2011</b> ,		11
4	Multitemporal image change detection with compressed sparse representation <b>2011</b> ,		9
3	An efficient learned dictionary and its application to non-local denoising <b>2010</b> ,		2
2	An Efficient Dictionary Learning Algorithm for Sparse Representation <b>2010</b> ,		3
1	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