

# Leyuan Fang

## List of Publications by Year in descending order

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132  
papers

11,176  
citations

34105  
52  
h-index

30087  
103  
g-index

132  
all docs

132  
docs citations

132  
times ranked

6791  
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	5.3	2
2	Flexible and Generalized Real Photograph Denoising Exploiting Dual Meta Attention. IEEE Transactions on Cybernetics, 2023, 53, 6395-6407.	9.5	9
3	Adaptive Spatial Pyramid Constraint for Hyperspectral Image Classification With Limited Training Samples. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	6.3	22
4	Self-Supervised Learning With Adaptive Distillation for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	6.3	62
5	SCAF-Net: Scene Context Attention-Based Fusion Network for Vehicle Detection in Aerial Imagery. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	6
6	Super Resolution Guided Deep Network for Land Cover Classification From Remote Sensing Images. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-12.	6.3	19
7	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.	6.3	75
8	Attention-Based Octave Network for Hyperspectral Image Denoising. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 1089-1102.	4.9	13
9	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.	6.3	20
10	Meta-Pixel-Driven Embeddable Discriminative Target and Background Dictionary Pair Learning for Hyperspectral Target Detection. Remote Sensing, 2022, 14, 481.	4.0	11
11	Adaptive Regional Multiple Features for Large-Scale High-Resolution Remote Sensing Image Registration. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	6.3	5
12	Intra- and Inter-Slice Contrastive Learning for Point Supervised OCT Fluid Segmentation. IEEE Transactions on Image Processing, 2022, 31, 1870-1881.	9.8	28
13	Optical Remote Sensing Image Understanding With Weak Supervision: Concepts, methods, and perspectives. IEEE Geoscience and Remote Sensing Magazine, 2022, 10, 250-269.	9.6	24
14	Deep Covariance Alignment for Domain Adaptive Remote Sensing Image Segmentation. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-11.	6.3	12
15	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.	4.9	13
16	Self-Attention-Based Deep Feature Fusion for Remote Sensing Scene Classification. IEEE Geoscience and Remote Sensing Letters, 2021, 18, 43-47.	3.1	115
17	Multiscale Densely-Connected Fusion Networks for Hyperspectral Images Classification. IEEE Transactions on Circuits and Systems for Video Technology, 2021, 31, 246-259.	8.3	53
18	Deep Spatial-Spectral Subspace Clustering for Hyperspectral Image. IEEE Transactions on Circuits and Systems for Video Technology, 2021, 31, 2686-2697.	8.3	65

#	ARTICLE	IF	CITATIONS
19	Unsupervised Denoising of Optical Coherence Tomography Images With Nonlocal-Generative Adversarial Network. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-12.	4.7	18
20	Multi-Modal Retinal Image Classification With Modality-Specific Attention Network. IEEE Transactions on Medical Imaging, 2021, 40, 1591-1602.	8.9	43
21	Noise-Powered Disentangled Representation for Unsupervised Speckle Reduction of Optical Coherence Tomography Images. IEEE Transactions on Medical Imaging, 2021, 40, 2600-2614.	8.9	31
22	Anomaly Detection for Medical Images Using Self-Supervised and Translation-Consistent Features. IEEE Transactions on Medical Imaging, 2021, 40, 3641-3651.	8.9	44
23	Oriented Spatial Correlative Aligned Feature for Remote Sensing Object Detection. , 2021, , .		2
24	Skip-Connected Covariance Network for Remote Sensing Scene Classification. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 1461-1474.	11.3	146
25	Nonlocal Sparse Tensor Factorization for Semiblind Hyperspectral and Multispectral Image Fusion. IEEE Transactions on Cybernetics, 2020, 50, 4469-4480.	9.5	107
26	Residual Encoder–Decoder Conditional Generative Adversarial Network for Pansharpening. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 1573-1577.	3.1	49
27	Data-Driven Methods for the Estimation of Leaf Water and Dry Matter Content: Performances, Potential and Limitations. Sensors, 2020, 20, 5394.	3.8	3
28	Hybrid first and second order attention Unet for building segmentation in remote sensing images. Science China Information Sciences, 2020, 63, 1.	4.3	73
29	Modeling Polarized Reflectance of Natural Land Surfaces Using Generalized Regression Neural Networks. Remote Sensing, 2020, 12, 248.	4.0	6
30	Subpixel-Pixel-Superpixel Guided Fusion for Hyperspectral Anomaly Detection. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 5998-6007.	6.3	22
31	Multispectral Change Detection With Bilinear Convolutional Neural Networks. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 1757-1761.	3.1	36
32	Multiscale CNNs Ensemble Based Self-Learning for Hyperspectral Image Classification. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 1593-1597.	3.1	16
33	Region-Enhanced Convolutional Neural Network for Object Detection in Remote Sensing Images. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 5693-5702.	6.3	41
34	Retinal optical coherence tomography image classification with label smoothing generative adversarial network. Neurocomputing, 2020, 405, 37-47.	5.9	31
35	Multiscale Feature Extraction with Gaussian Curvature Filter for Hyperspectral Image Classification. , 2020, , .		5
36	Disentanglement Network for Unsupervised Speckle Reduction of Optical Coherence Tomography Images. Lecture Notes in Computer Science, 2020, , 675-684.	1.3	0

#	ARTICLE	IF	CITATIONS
37	Tensor Completion via Nonlocal Low-Rank Regularization. IEEE Transactions on Cybernetics, 2019, 49, 2344-2354.	9.5	43
38	Reconstruction of Retinal OCT Images with Sparse Representation. Biological and Medical Physics Series, 2019, , 73-103.	0.4	0
39	Iterative fusion convolutional neural networks for classification of optical coherence tomography images. Journal of Visual Communication and Image Representation, 2019, 59, 327-333.	2.8	75
40	Three-dimensional optical coherence tomography image denoising through multi-input fully-convolutional networks. Computers in Biology and Medicine, 2019, 108, 1-8.	7.0	31
41	Multispectral and hyperspectral image fusion with spatial-spectral sparse representation. Information Fusion, 2019, 49, 262-270.	19.1	95
42	Automatic Classification of Retinal Optical Coherence Tomography Images With Layer Guided Convolutional Neural Network. IEEE Signal Processing Letters, 2019, 26, 1026-1030.	3.6	86
43	Scale-Free Convolutional Neural Network for Remote Sensing Scene Classification. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 6916-6928.	6.3	157
44	Deep Learning for Hyperspectral Image Classification: An Overview. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 6690-6709.	6.3	977
45	Deep Hashing Neural Networks for Hyperspectral Image Feature Extraction. IEEE Geoscience and Remote Sensing Letters, 2019, 16, 1412-1416.	3.1	48
46	Hyperspectral Image Classification with Multi-Scale Feature Extraction. Remote Sensing, 2019, 11, 534.	4.0	25
47	Multiple convolutional layers fusion framework for hyperspectral image classification. Neurocomputing, 2019, 339, 149-160.	5.9	40
48	Hyperspectral image classification with a class-dependent spatial-spectral mixed metric. Pattern Recognition Letters, 2019, 123, 16-22.	4.2	7
49	Attention to Lesion: Lesion-Aware Convolutional Neural Network for Retinal Optical Coherence Tomography Image Classification. IEEE Transactions on Medical Imaging, 2019, 38, 1959-1970.	8.9	146
50	High-Order Self-Attention Network for Remote Sensing Scene Classification. , 2019, , .		2
51	Feature Extraction With Multiscale Covariance Maps for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 755-769.	6.3	182
52	Hyperspectral Image Classification With Squeeze Multibias Network. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 1291-1301.	6.3	79
53	Weighted Tensor Rank-1 Decomposition for Nonlocal Image Denoising. IEEE Transactions on Image Processing, 2019, 28, 2719-2730.	9.8	27
54	Learning a Low Tensor-Train Rank Representation for Hyperspectral Image Super-Resolution. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 2672-2683.	11.3	247

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55	Simultaneous denoising and super-resolution of optical coherence tomography images based on generative adversarial network. Optics Express, 2019, 27, 12289.	3.4	94
56	Hyperspectral Image Classification With Deep Feature Fusion Network. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 3173-3184.	6.3	388
57	Deep Hyperspectral Image Sharpening. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 5345-5355.	11.3	266
58	Contextual Online Dictionary Learning for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 1336-1347.	6.3	22
59	Extinction Profiles Fusion for Hyperspectral Images Classification. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 1803-1815.	6.3	104
60	Hyperspectral Image Denoising With Group Sparse and Low-Rank Tensor Decomposition. IEEE Access, 2018, 6, 1380-1390.	4.2	38
61	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
62	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.	6.3	153
63	Super-resolution of hyperspectral image via superpixel-based sparse representation. Neurocomputing, 2018, 273, 171-177.	5.9	100
64	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
65	Similarity-Preserving Deep Features for Hyperspectral Image Classification. , 2018, , .		1
66	Fusing Information from Subpixel to Superpixel for Hyperspectral Anomaly Detection. , 2018, , .		4
67	A Novel Nonconvex Sparsity Measure for Hyperspectral Images Restoration. , 2018, , .		0
68	Hyperspectral Image Super-Resolution via Local Low-Rank and Sparse Representations. , 2018, , .		17
69	Covariance Matrix Based Feature Fusion for Scene Classification. , 2018, , .		7
70	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.	9.6	255
71	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.	4.9	38
72	Classification of hyperspectral images via weighted spatial correlation representation. Journal of Visual Communication and Image Representation, 2018, 56, 160-166.	2.8	6

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73	Fusing Hyperspectral and Multispectral Images via Coupled Sparse Tensor Factorization. IEEE Transactions on Image Processing, 2018, 27, 4118-4130.	9.8	353
74	Deformable Convolutional Neural Networks for Hyperspectral Image Classification. IEEE Geoscience and Remote Sensing Letters, 2018, 15, 1254-1258.	3.1	171
75	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.	2.9	48
76	Remote Sensing Scene Classification Using Multilayer Stacked Covariance Pooling. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 6899-6910.	6.3	232
77	Optical coherence tomography retinal image reconstruction via nonlocal weighted sparse representation. Journal of Biomedical Optics, 2018, 23, 1.	2.6	34
78	Open-source, machine and deep learning-based automated algorithm for gestational age estimation through smartphone lens imaging. Biomedical Optics Express, 2018, 9, 6038.	2.9	8
79	Pixel-level image fusion: A survey of the state of the art. Information Fusion, 2017, 33, 100-112.	19.1	880
80	From Subpixel to Superpixel: A Novel Fusion Framework for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 4398-4411.	6.3	71
81	Hyperspectral Image Classification via Multiple-Feature-Based Adaptive Sparse Representation. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 1646-1657.	4.7	147
82	Open source software for automatic detection of cone photoreceptors in adaptive optics ophthalmoscopy using convolutional neural networks. Scientific Reports, 2017, 7, 6620.	3.3	65
83	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.	2.6	10
84	Ship Detection in Optical Satellite Image Based on RX Method and PCAnet. Sensing and Imaging, 2017, 18, 1.	1.5	3
85	Adaptive Spectral Spatial Compression of Hyperspectral Image With Sparse Representation. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 671-682.	6.3	51
86	Segmentation Based Sparse Reconstruction of Optical Coherence Tomography Images. IEEE Transactions on Medical Imaging, 2017, 36, 407-421.	8.9	107
87	Hyperspectral Image Super-Resolution via Non-local Sparse Tensor Factorization. , 2017, , .		195
88	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.	2.9	396
89	Hyperspectral images classification by fusing extinction profiles feature. , 2017, , .		4
90	Shadow detection in very high-resolution satellite images by extended random walker. , 2017, , .		1

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91	Spectral-spatial online dictionary learning for hyperspectral image classification. , 2017, , .		2
92	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.	2.6	19
93	Non-local sparse representation for hyperspectral image super-resolution. , 2016, , .		6
94	Probabilistic Fusion of Pixel-Level and Superpixel-Level Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 7416-7430.	6.3	71
95	Set-to-Set Distance-Based Spectralâ€Spatial Classification of Hyperspectral Images. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 7122-7134.	6.3	52
96	Decision fusion of pixel-level and superpixel-level hyperspectral image classifiers. , 2016, , .		1
97	Global and Local Features Based Classification for Bleed-Through Removal. Sensing and Imaging, 2016, 17, 1.	1.5	2
98	Spectralâ€Spatial Hyperspectral Image Classification Based on KNN. Sensing and Imaging, 2016, 17, 1.	1.5	111
99	SAR Image Despeckling Via Structural Sparse Representation. Sensing and Imaging, 2016, 17, 1.	1.5	27
100	Spectralâ€Spatial Adaptive Sparse Representation for Hyperspectral Image Denoising. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 373-385.	6.3	119
101	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
102	Superpixel-based composite kernel for hyperspectral image classification. , 2015, , .		9
103	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
104	Estimation of crop LAI using hyperspectral vegetation indices and a hybrid inversion method. Remote Sensing of Environment, 2015, 165, 123-134.	11.0	269
105	Spectral-spatial hyperspectral image classification via superpixel merging and sparse representation. , 2015, , .		6
106	High resolution visible image completion of urban region using corresponding hyperspectral image. , 2015, , .		0
107	Intrinsic Image Decomposition for Feature Extraction of Hyperspectral Images. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 2241-2253.	6.3	148
108	Classification of Hyperspectral Images by Exploiting Spectralâ€Spatial Information of Superpixel via Multiple Kernels. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 6663-6674.	6.3	326

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109	Robust Object Tracking Based on Principal Component Analysis and Local Sparse Representation. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 2863-2875.	4.7	34
110	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
111	Face Recognition by Exploiting Local Gabor Features With Multitask Adaptive Sparse Representation. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 2605-2615.	4.7	29
112	Extended Random Walker-Based Classification of Hyperspectral Images. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 144-153.	6.3	104
113	Graph based optic nerve head segmentation. , 2014, , .		0
114	Spectral-spatial hyperspectral classification via shape-adaptive sparse representation. , 2014, , .		0
115	Spectral-Spatial Hyperspectral Image Classification via Multiscale Adaptive Sparse Representation. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 7738-7749.	6.3	286
116	Pansharpening Based on Intrinsic Image Decomposition. Sensing and Imaging, 2014, 15, 1.	1.5	5
117	Spectral-Spatial Hyperspectral Image Classification Using Superpixel and Extreme Learning Machines. Communications in Computer and Information Science, 2014, , 159-167.	0.5	9
118	Hyperspectral Image Classification by Exploiting the Spectral-Spatial Correlations in the Sparse Coefficients. Communications in Computer and Information Science, 2014, , 151-158.	0.5	3
119	Remote Sensing Image Fusion via Sparse Representations Over Learned Dictionaries. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 4779-4789.	6.3	268
120	Fuzzy connectedness road extraction from high resolution remote sensing image based on GMM-MRF. , 2013, , .		1
121	Simultaneous image fusion and super-resolution using sparse representation. Information Fusion, 2013, 14, 229-240.	19.1	92
122	Fast Acquisition and Reconstruction of Optical Coherence Tomography Images via Sparse Representation. IEEE Transactions on Medical Imaging, 2013, 32, 2034-2049.	8.9	191
123	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
124	Sparsity based denoising of spectral domain optical coherence tomography images. Biomedical Optics Express, 2012, 3, 927.	2.9	225
125	Multitemporal Image Change Detection Using a Detail-Enhancing Approach With Nonsubsampled Contourlet Transform. IEEE Geoscience and Remote Sensing Letters, 2012, 9, 836-840.	3.1	30
126	Group-Sparse Representation With Dictionary Learning for Medical Image Denoising and Fusion. IEEE Transactions on Biomedical Engineering, 2012, 59, 3450-3459.	4.2	300



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127	An Efficient Dictionary Learning Algorithm and Its Application to 3-D Medical Image Denoising. IEEE Transactions on Biomedical Engineering, 2012, 59, 417-427.	4.2	59
128	Signal Denoising With Random Refined Orthogonal Matching Pursuit. IEEE Transactions on Instrumentation and Measurement, 2012, 61, 26-34.	4.7	17
129	Image-based seat belt detection. , 2011, , .		25
130	Multitemporal image change detection with compressed sparse representation. , 2011, , .		11
131	An efficient learned dictionary and its application to non-local denoising. , 2010, , .		2
132	An Efficient Dictionary Learning Algorithm for Sparse Representation. , 2010, , .		4