Lei Zhang

List of Publications by Year
in descending order

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45 papers	5,168 citations	361413 20 h-index	377865 34 g-index
45 all docs	45 docs citations	45 times ranked	3920 citing authors

#	Article	IF	Citations
1	Weighted Nuclear Norm Minimization with Application to Image Denoising. , 2014, , .		1,240
2	Second-Order Attention Network for Single Image Super-Resolution. , 2019, , .		985
3	NTIRE 2017 Challenge on Single Image Super-Resolution: Methods and Results. , 2017, , .		645
4	Weighted Nuclear Norm Minimization and Its Applications to Low Level Vision. International Journal of Computer Vision, 2017, 121, 183-208.	15.6	566
5	CleanNet: Transfer Learning for Scalable Image Classifier Training with Label Noise. , 2018, , .		241
6	Convolutional Sparse Coding for Image Super-Resolution. , 2015, , .		225
7	Robust Online Matrix Factorization for Dynamic Background Subtraction. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 1726-1740.	13.9	117
8	Deep HDR Imaging via A Non-Local Network. IEEE Transactions on Image Processing, 2020, 29, 4308-4322.	9.8	106
9	Exploiting Clustering Manifold Structure for Hyperspectral Imagery Super-Resolution. IEEE Transactions on Image Processing, 2018, 27, 5969-5982.	9.8	104
10	Exploring Structured Sparsity by a Reweighted Laplace Prior for Hyperspectral Compressive Sensing. IEEE Transactions on Image Processing, 2016, 25, 4974-4988.	9.8	65
11	Single Hyperspectral Image Super-Resolution with Grouped Deep Recursive Residual Network. , 2018, , .		65
12	Cluster Sparsity Field: An Internal Hyperspectral Imagery Prior for Reconstruction. International Journal of Computer Vision, 2018, 126, 797-821.	15.6	63
13	Unsupervised Recurrent Hyperspectral Imagery Super-Resolution Using Pixel-Aware Refinement. IEEE Transactions on Geoscience and Remote Sensing, 2021, , 1-15.	6.3	60
14	Deep Blind Hyperspectral Image Super-Resolution. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 2388-2400.	11.3	57
15	When Unsupervised Domain Adaptation Meets Tensor Representations. , 2017, , .		50
16	Dictionary Learning for Promoting Structured Sparsity in Hyperspectral Compressive Sensing. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 7223-7235.	6.3	47
17	Unsupervised Domain Adaptation Using Robust Class-Wise Matching. IEEE Transactions on Circuits and Systems for Video Technology, 2019, 29, 1339-1349.	8.3	46
18	Deep Recursive Network for Hyperspectral Image Super-Resolution. IEEE Transactions on Computational Imaging, 2020, 6, 1233-1244.	4.4	44

#	Article	IF	Citations
19	Towards Effective Deep Embedding for Zero-Shot Learning. IEEE Transactions on Circuits and Systems for Video Technology, 2020, 30, 2843-2852.	8.3	42
20	Structured Sparse Coding-Based Hyperspectral Imagery Denoising With Intracluster Filtering. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 6860-6876.	6.3	36
21	Deep Cube-Pair Network for Hyperspectral Imagery Classification. Remote Sensing, 2018, 10, 783.	4.0	29
22	Intracluster Structured Low-Rank Matrix Analysis Method for Hyperspectral Denoising. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 866-880.	6.3	28
23	When Low Rank Representation Based Hyperspectral Imagery Classification Meets Segmented Stacked Denoising Auto-Encoder Based Spatial-Spectral Feature. Remote Sensing, 2018, 10, 284.	4.0	27
24	Locally Similar Sparsity-Based Hyperspectral Compressive Sensing Using Unmixing. IEEE Transactions on Computational Imaging, 2016, 2, 86-100.	4.4	26
25	Salient object detection in hyperspectral imagery using multi-scale spectral-spatial gradient. Neurocomputing, 2018, 291, 215-225.	5.9	23
26	HDR Video Reconstruction: A Coarse-to-fine Network and A Real-world Benchmark Dataset. , 2021, , .		23
27	Adaptive Importance Learning for Improving Lightweight Image Super-Resolution Network. International Journal of Computer Vision, 2020, 128, 479-499.	15.6	22
28	Reweighted laplace prior based hyperspectral compressive sensing for unknown sparsity. , 2015, , .		21
29	Hyperspectral Image Classification With Data Augmentation and Classifier Fusion. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 1420-1424.	3.1	21
30	GSDet: Object Detection in Aerial Images Based on Scale Reasoning. IEEE Transactions on Image Processing, 2021, 30, 4599-4609.	9.8	19
31	Accurate Tensor Completion via Adaptive Low-Rank Representation. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 4170-4184.	11.3	14
32	Spherical Zero-Shot Learning. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 634-645.	8.3	13
33	Learning Discriminative Compact Representation for Hyperspectral Imagery Classification. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 8276-8289.	6.3	11
34	Boosting Hyperspectral Image Classification With Unsupervised Feature Learning. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	6.3	11
35	Robust Hyperspectral Image Domain Adaptation With Noisy Labels. IEEE Geoscience and Remote Sensing Letters, 2019, 16, 1135-1139.	3.1	10
36	Boosting One-Shot Spectral Super-Resolution Using Transfer Learning. IEEE Transactions on Computational Imaging, 2020, 6, 1459-1470.	4.4	10

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37	Towards accurate HDR imaging with learning generator constraints. Neurocomputing, 2021, 428, 79-91.	5.9	10
38	Intraclass Similarity Structure Representation-Based Hyperspectral Imagery Classification With Few Samples. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 1045-1054.	4.9	9
39	Hyperspectral image super-resolution extending: An effective fusion based method without knowing the spatial transformation matrix. , 2017, , .		8
40	Boosting Few-Shot Hyperspectral Image Classification Using Pseudo-Label Learning. Remote Sensing, 2021, 13, 3539.	4.0	7
41	Robust Deep Hyperspectral Imagery Super-Resolution. , 2019, , .		5
42	Embarrassingly Simple Binarization for Deep Single Imagery Super-Resolution Networks. IEEE Transactions on Image Processing, 2021, 30, 3934-3945.	9.8	5
43	Toward Effective Hyperspectral Image Classification Using Dual-Level Deep Spatial Manifold Representation. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	6.3	5
44	A Novel Analysis Dictionary Learning Model Based Hyperspectral Image Classification Method. Remote Sensing, 2019, 11, 397.	4.0	4
45	Structured Background Modeling for Hyperspectral Anomaly Detection. Sensors, 2018, 18, 3137.	3.8	3