Jie Lei

List of Publications by Year in descending order

40 papers	1,152 citations	331670 21 h-index	377865 34 g-index
40 all docs	40 docs citations	40 times ranked	763 citing authors

#	Article	IF	Citations
1	Structure Tensor and Guided Filtering-Based Algorithm for Hyperspectral Anomaly Detection. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 4218-4230.	6.3	85
2	Hyperspectral Pansharpening With Deep Priors. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 1529-1543.	11.3	77
3	Spectral constraint adversarial autoencoders approach to feature representation in hyperspectral anomaly detection. Neural Networks, 2019, 119, 222-234.	5.9	72
4	Autoencoder and Adversarial-Learning-Based Semisupervised Background Estimation for Hyperspectral Anomaly Detection. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 5416-5427.	6.3	68
5	Hyperspectral Image Super-Resolution Using Deep Feature Matrix Factorization. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 6055-6067.	6.3	63
6	Spectralâ€“Spatial Feature Extraction for Hyperspectral Anomaly Detection. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 8131-8143.	6.3	57
7	Semisupervised Spectral Learning With Generative Adversarial Network for Hyperspectral Anomaly Detection. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 5224-5236.	6.3	53
8	Weakly Supervised Low-Rank Representation for Hyperspectral Anomaly Detection. IEEE Transactions on Cybernetics, 2021, 51, 3889-3900.	9.5	48
9	HPGAN: Hyperspectral Pansharpening Using 3-D Generative Adversarial Networks. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 463-477.	6.3	44
10	Spectral Adversarial Feature Learning for Anomaly Detection in Hyperspectral Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 2352-2365.	6.3	43
11	Discriminative Feature Learning With Distance Constrained Stacked Sparse Autoencoder for Hyperspectral Target Detection. IEEE Geoscience and Remote Sensing Letters, 2019, 16, 1462-1466.	3.1	37
12	Discriminative Reconstruction for Hyperspectral Anomaly Detection With Spectral Learning. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 7406-7417.	6.3	37
13	Characterization of Background-Anomaly Separability With Generative Adversarial Network for Hyperspectral Anomaly Detection. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 6017-6028.	6.3	37
14	Dual feature extraction network for hyperspectral image analysis. Pattern Recognition, 2021, 118, 107992.	8.1	37
15	High-quality spectral-spatial reconstruction using saliency detection and deep feature enhancement. Pattern Recognition, 2019, 88, 139-152.	8.1	36
16	SRUN: Spectral Regularized Unsupervised Networks for Hyperspectral Target Detection. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 1463-1474.	6.3	36
17	Deep Latent Spectral Representation Learning-Based Hyperspectral Band Selection for Target Detection. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 2015-2026.	6.3	35
18	Weakly Supervised Discriminative Learning With Spectral Constrained Generative Adversarial Network for Hyperspectral Anomaly Detection. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 6504-6517.	11.3	32

#	Article	IF	Citations
19	Hyperspectral Band Selection for Spectralâ€“Spatial Anomaly Detection. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 3426-3436.	6.3	30
20	Structure Tensor-Based Algorithm for Hyperspectral and Panchromatic Images Fusion. Remote Sensing, 2018, 10, 373.	4.0	25
21	Self-spectral learning with GAN based spectralâ€“spatial target detection for hyperspectral image. Neural Networks, 2021, 142, 375-387.	5.9	23
22	A Novel Effectively Optimized One-Stage Network for Object Detection in Remote Sensing Imagery. Remote Sensing, 2019, 11, 1376.	4.0	19
23	Sparse Coding-Inspired GAN for Hyperspectral Anomaly Detection in Weakly Supervised Learning. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-11.	6.3	18
24	E2E-LIADE: End-to-End Local Invariant Autoencoding Density Estimation Model for Anomaly Target Detection in Hyperspectral Image. IEEE Transactions on Cybernetics, 2022, 52, 11385-11396.	9.5	17
25	Spectral mapping with adversarial learning for unsupervised hyperspectral change detection. Neurocomputing, 2021, 465, 71-83.	5.9	15
26	A Deep Pipelined Implementation of Hyperspectral Target Detection Algorithm on FPGA Using HLS. Remote Sensing, 2018, 10, 516.	4.0	14
27	Unsupervised spectral mapping and feature selection for hyperspectral anomaly detection. Neural Networks, 2020, 132, 144-154.	5.9	14
28	A Specially Optimized One-Stage Network for Object Detection in Remote Sensing Images. IEEE Geoscience and Remote Sensing Letters, 2021, 18, 401-405.	3.1	12
29	A Novel FPGA-Based Architecture for Fast Automatic Target Detection in Hyperspectral Images. Remote Sensing, 2019, 11, 146.	4.0	10
30	Hyperspectral Pansharpening Based on Spectral Constrained Adversarial Autoencoder. Remote Sensing, 2019, 11, 2691.	4.0	10
31	A Low-Complexity Hyperspectral Anomaly Detection Algorithm and Its FPGA Implementation. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 907-921.	4.9	10
32	Boundary Extraction Constrained Siamese Network for Remote Sensing Image Change Detection. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	6.3	8
33	Algorithm/Hardware Codesign for Real-Time On-Satellite CNN-Based Ship Detection in SAR Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-18.	6.3	8
34	Filter Pruning via Learned Representation Median in the Frequency Domain. IEEE Transactions on Cybernetics, 2023, 53, 3165-3175.	9.5	6
35	Fast FPGA Implementation for Computing the Pixel Purity Index of Hyperspectral Images. Journal of Circuits, Systems and Computers, 2018, 27, 1850045.	1.5	5
36	Discriminative Feature Learning Constrained Unsupervised Network for Cloud Detection in Remote Sensing Imagery. Remote Sensing, 2020, 12, 456.	4.0	5

#	Article	IF	Citations
37	SOON: Specifically Optimized One-Stage Network for Object Detection in Remote Sensing Imagery. , 2019, , .		2
38	Interlayer Restoration Deep Neural Network for Scalable High Efficiency Video Coding. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 3217-3234.	8.3	2
39	Rank-Aware Generative Adversarial Network for Hyperspectral Band Selection. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-12.	6.3	2
40	Multi-Prior Twin Least-Square Network for Anomaly Detection of Hyperspectral Imagery. Remote Sensing, 2022, 14, 2859.	4.0	0