

Dong Liu

List of Publications by Year in descending order

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71
papers

5,564
citations

147801

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65
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71
all docs

71
docs citations

71
times ranked

3954
citing authors

#	ARTICLE	IF	CITATIONS
1	Deep High-Resolution Representation Learning for Visual Recognition. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 3349-3364.	13.9	1,553
2	Cascaded Recurrent Neural Networks for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 5384-5394.	6.3	394
3	Robust Visual Tracking via Convolutional Networks without Training. IEEE Transactions on Image Processing, 2016, 25, 1-1.	9.8	269
4	Bidirectional-Convolutional LSTM Based Spectral-Spatial Feature Learning for Hyperspectral Image Classification. Remote Sensing, 2017, 9, 1330.	4.0	228
5	Spatiotemporal Satellite Image Fusion Using Deep Convolutional Neural Networks. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 821-829.	4.9	219
6	Classification of Hyperspectral and LiDAR Data Using Coupled CNNs. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 4939-4950.	6.3	204
7	Hyperspectral Image Classification With Attention-Aided CNNs. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 2281-2293.	6.3	200
8	Hyperspectral image classification using spectral-spatial LSTMs. Neurocomputing, 2019, 328, 39-47.	5.9	162
9	Learning Multiscale Active Facial Patches for Expression Analysis. IEEE Transactions on Cybernetics, 2015, 45, 1499-1510.	9.5	154
10	HSCNN+: Advanced CNN-Based Hyperspectral Recovery from RGB Images. , 2018, , .		134
11	Learning Multiscale Deep Features for High-Resolution Satellite Image Scene Classification. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 117-126.	6.3	130
12	HSCNN: CNN-Based Hyperspectral Image Recovery from Spectrally Undersampled Projections. , 2017, , .		119
13	Spatio-temporal convolutional features with nested LSTM for facial expression recognition. Neurocomputing, 2018, 317, 50-57.	5.9	101
14	Learning Deep Global Multi-Scale and Local Attention Features for Facial Expression Recognition in the Wild. IEEE Transactions on Image Processing, 2021, 30, 6544-6556.	9.8	100
15	Classification of Hyperspectral Images via Multitask Generative Adversarial Networks. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 1424-1436.	6.3	97
16	Matrix-Based Discriminant Subspace Ensemble for Hyperspectral Image Spatial-Spectral Feature Fusion. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 783-794.	6.3	85
17	Stacked U-Shape Network With Channel-Wise Attention for Salient Object Detection. IEEE Transactions on Multimedia, 2021, 23, 1397-1409.	7.2	70
18	Pyramid Fully Convolutional Network for Hyperspectral and Multispectral Image Fusion. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 1549-1558.	4.9	66

#	ARTICLE	IF	CITATIONS
19	Dual-Path Attention Network for Compressed Sensing Image Reconstruction. IEEE Transactions on Image Processing, 2020, 29, 9482-9495.	9.8	62
20	Remotely sensed big data: evolution in model development for information extraction [point of view]. Proceedings of the IEEE, 2019, 107, 2294-2301.	21.3	60
21	Blessing of Dimensionality: Recovering Mixture Data via Dictionary Pursuit. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2017, 39, 47-60.	13.9	58
22	NTIRE 2018 Challenge on Spectral Reconstruction from RGB Images. , 2018, , .		58
23	Joint Active Learning with Feature Selection via CUR Matrix Decomposition. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 1382-1396.	13.9	55
24	A Deterministic Analysis for LRR. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2016, 38, 417-430.	13.9	48
25	Robust visual tracking via patch based kernel correlation filters with adaptive multiple feature ensemble. Neurocomputing, 2016, 214, 607-617.	5.9	45
26	Robust Subspace Clustering With Compressed Data. IEEE Transactions on Image Processing, 2019, 28, 5161-5170.	9.8	42
27	Spectral Super-Resolution Network Guided by Intrinsic Properties of Hyperspectral Imagery. IEEE Transactions on Image Processing, 2021, 30, 7256-7265.	9.8	42
28	Visual tracking using spatio-temporally nonlocally regularized correlation filter. Pattern Recognition, 2018, 83, 185-195.	8.1	41
29	Learning image compressed sensing with sub-pixel convolutional generative adversarial network. Pattern Recognition, 2020, 98, 107051.	8.1	41
30	Multi-Stage Feature Fusion Network for Video Super-Resolution. IEEE Transactions on Image Processing, 2021, 30, 2923-2934.	9.8	41
31	Visual tracking via Boolean map representations. Pattern Recognition, 2018, 81, 147-160.	8.1	35
32	Cross-Modality Contrastive Learning for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-12.	6.3	35
33	RankBoost with l1 regularization for facial expression recognition and intensity estimation. , 2009, , .		34
34	Nonlinear Low-Rank Matrix Completion for Human Motion Recovery. IEEE Transactions on Image Processing, 2018, 27, 3011-3024.	9.8	33
35	Class-Guided Feature Decoupling Network for Airborne Image Segmentation. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 2245-2255.	6.3	33
36	Robust Matrix Discriminative Analysis for Feature Extraction From Hyperspectral Images. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 2002-2011.	4.9	32

#	ARTICLE	IF	CITATIONS
37	Human Age Estimation Based on Locality and Ordinal Information. IEEE Transactions on Cybernetics, 2015, 45, 2522-2534.	9.5	31
38	Complementarity-Aware Attention Network for Salient Object Detection. IEEE Transactions on Cybernetics, 2022, 52, 873-886.	9.5	31
39	Tropical Cyclone Intensity Estimation Using Two-Branch Convolutional Neural Network From Infrared and Water Vapor Images. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 586-597.	6.3	30
40	CNN-based near-real-time precipitation estimation from Fengyun-2 satellite over Xinjiang, China. Atmospheric Research, 2021, 250, 105337.	4.1	30
41	Dynamic Structure Embedded Online Multiple-Output Regression for Streaming Data. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 323-336.	13.9	29
42	Feature Alignment and Aggregation Siamese Networks for Fast Visual Tracking. IEEE Transactions on Circuits and Systems for Video Technology, 2021, 31, 1296-1307.	8.3	29
43	Learning Non-Locally Regularized Compressed Sensing Network With Half-Quadratic Splitting. IEEE Transactions on Multimedia, 2020, 22, 3236-3248.	7.2	27
44	Learning Memory Augmented Cascading Network for Compressed Sensing of Images. Lecture Notes in Computer Science, 2020, , 513-529.	1.3	25
45	Comparing the Performance of Neural Network and Deep Convolutional Neural Network in Estimating Soil Moisture from Satellite Observations. Remote Sensing, 2018, 10, 1327.	4.0	24
46	Backward Attentive Fusing Network With Local Aggregation Classifier for 3D Point Cloud Semantic Segmentation. IEEE Transactions on Image Processing, 2021, 30, 4973-4984.	9.8	24
47	Dimensionality Reduction of Hyperspectral Image Using Spatial Regularized Local Graph Discriminant Embedding. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 3262-3271.	4.9	23
48	Image Co-Saliency Detection and Instance Co-Segmentation Using Attention Graph Clustering Based Graph Convolutional Network. IEEE Transactions on Multimedia, 2022, 24, 492-505.	7.2	17
49	Phase Space Reconstruction Driven Spatio-Temporal Feature Learning for Dynamic Facial Expression Recognition. IEEE Transactions on Affective Computing, 2022, 13, 1466-1476.	8.3	16
50	Nonconvex Low-Rank Kernel Sparse Subspace Learning for Keyframe Extraction and Motion Segmentation. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 1612-1626.	11.3	14
51	Matrix Completion with Deterministic Sampling: Theories and Methods. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 549-566.	13.9	14
52	SITS-Former: A pre-trained spatio-spectral-temporal representation model for Sentinel-2 time series classification. International Journal of Applied Earth Observation and Geoinformation, 2022, 106, 102651.	2.8	14
53	Learning-Based Sphere Nonlinear Interpolation for Motion Synthesis. IEEE Transactions on Industrial Informatics, 2019, 15, 2927-2937.	11.3	12
54	Single image super-resolution with enhanced Laplacian pyramid network via conditional generative adversarial learning. Neurocomputing, 2020, 398, 531-538.	5.9	12

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55	Adaptive Multi-View and Temporal Fusing Transformer for 3D Human Pose Estimation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2023, 45, 4122-4135.	13.9	10
56	Visual Tracking via Nonlocal Similarity Learning. IEEE Transactions on Circuits and Systems for Video Technology, 2018, 28, 2826-2835.	8.3	9
57	Spatial Consistency Constrained GAN for Human Motion Transfer. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 730-742.	8.3	9
58	Learning interlaced sparse Sinkhorn matching network for video super-resolution. Pattern Recognition, 2022, 124, 108475.	8.1	8
59	Hierarchical Context Network for Airborne Image Segmentation. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-12.	6.3	7
60	Prinet: A Prior Driven Spectral Super-Resolution Network. , 2020, , .		6
61	Saliency fusion via sparse and double low rank decomposition. Pattern Recognition Letters, 2018, 107, 114-122.	4.2	5
62	Unsupervised Network Quantization via Fixed-Point Factorization. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 2706-2720.	11.3	5
63	Unsupervised Spatial-“Spectral Network Learning for Hyperspectral Compressive Snapshot Reconstruction. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	6.3	5
64	Predicting Tropical Cyclogenesis Using a Deep Learning Method From Gridded Satellite and ERA5 Reanalysis Data in the Western North Pacific Basin. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-10.	6.3	5
65	Limb Pose Aware Networks for Monocular 3D Pose Estimation. IEEE Transactions on Image Processing, 2022, 31, 906-917.	9.8	5
66	Retrieving Soil Moisture Over Continental U.S. via Multi-View Multi-Task Learning. IEEE Geoscience and Remote Sensing Letters, 2019, 16, 1954-1958.	3.1	2
67	Looking at Boundary: Siamese Densely Cooperative Fusion for Salient Object Detection. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 3580-3593.	11.3	2
68	Selecting Optimal Completion to Partial Matrix via Self-Validation. IEEE Signal Processing Letters, 2020, 27, 1265-1269.	3.6	1
69	Likelihood-constrained coupled space learning for motion synthesis. Information Sciences, 2021, 579, 72-88.	6.9	1
70	Global Tropical Cyclone Precipitation Estimation via a Multitask Convolutional Neural Network Based on HURSAT-B1 Data. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-12.	6.3	1
71	Keyframe-Editable Real-Time Motion Synthesis. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 4538-4551.	8.3	1