Qingshan Liu

List of Publications by Year
in descending order

105 papers	3,938 citations	186265 28 h-index	155660 55 g-index
108 all docs	108 docs citations	108 times ranked	3348 citing authors

#	Article	IF	Citations
1	Cascaded Recurrent Neural Networks for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 5384-5394.	6.3	394
2	Bidirectional-Convolutional LSTM Based Spectral-Spatial Feature Learning for Hyperspectral Image Classification. Remote Sensing, 2017, 9, 1330.	4.0	228
3	Classification of Hyperspectral and LiDAR Data Using Coupled CNNs. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 4939-4950.	6.3	204
4	Hyperspectral Image Classification With Attention-Aided CNNs. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 2281-2293.	6.3	200
5	Solving the small sample size problem of LDA. , 0, , .		173
6	Hyperspectral image classification using spectral-spatial LSTMs. Neurocomputing, 2019, 328, 39-47.	5.9	162
7	Improving Kernel Fisher Discriminant Analysis for Face Recognition. IEEE Transactions on Circuits and Systems for Video Technology, 2004, 14, 42-49.	8.3	161
8	Stacked Hourglass Network for Robust Facial Landmark Localisation. , 2017, , .		160
9	A Variational Approach to Simultaneous Image Segmentation and Bias Correction. IEEE Transactions on Cybernetics, 2015, 45, 1426-1437.	9.5	153
10	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
11	Learning active facial patches for expression analysis. , 2012, , .		106
12	Spatio-temporal convolutional features with nested LSTM for facial expression recognition. Neurocomputing, 2018, 317, 50-57.	5.9	101
13	Classification of Hyperspectral Images via Multitask Generative Adversarial Networks. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 1424-1436.	6.3	97
14	Learning Discriminative Dictionary for Group Sparse Representation. IEEE Transactions on Image Processing, 2014, 23, 3816-3828.	9.8	90
15	Matrix-Based Discriminant Subspace Ensemble for Hyperspectral Image Spatialâ€"Spectral Feature Fusion. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 783-794.	6.3	85
16	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
17	Elastic Net Hypergraph Learning for Image Clustering and Semi-Supervised Classification. IEEE Transactions on Image Processing, 2017, 26, 452-463.	9.8	61
18	Adaptive Graph Convolutional Network With Attention Graph Clustering for Co-Saliency Detection. , 2020, , .		61

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19	Co-Saliency Detection via Mask-Guided Fully Convolutional Networks With Multi-Scale Label Smoothing. , 2019, , .		57
20	A Deterministic Analysis for LRR. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2016, 38, 417-430.	13.9	48
21	Ensemble learning for independent component analysis. Pattern Recognition, 2006, 39, 81-88.	8.1	47
22	M3 CSR: Multi-view, multi-scale and multi-component cascade shape regression. Image and Vision Computing, 2016, 47, 19-26.	4.5	46
23	Robust visual tracking via patch based kernel correlation filters with adaptive multiple feature ensemble. Neurocomputing, 2016, 214, 607-617.	5.9	45
24	How friends affect user behaviors? An exploration of social relation analysis for recommendation. Knowledge-Based Systems, 2015, 88, 70-84.	7.1	41
25	Visual tracking using spatio-temporally nonlocally regularized correlation filter. Pattern Recognition, 2018, 83, 185-195.	8.1	41
26	Learning image compressed sensing with sub-pixel convolutional generative adversarial network. Pattern Recognition, 2020, 98, 107051.	8.1	41
27	Former-DFER: Dynamic Facial Expression Recognition Transformer. , 2021, , .		39
28	Facial Shape Tracking via Spatio-Temporal Cascade Shape Regression. , 2015, , .		36
29	Visual tracking via Boolean map representations. Pattern Recognition, 2018, 81, 147-160.	8.1	35
30	Cross-Modality Contrastive Learning for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-12.	6.3	35
31	Nonlinear Low-Rank Matrix Completion for Human Motion Recovery. IEEE Transactions on Image Processing, 2018, 27, 3011-3024.	9.8	33
32	Class-Guided Feature Decoupling Network for Airborne Image Segmentation. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 2245-2255.	6.3	33
33	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
34	Robust object tracking by online Fisher discrimination boosting feature selection. Computer Vision and Image Understanding, 2016, 153, 100-108.	4.7	31
35	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
36	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

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37	Hypergraph Embedding for Spatial-Spectral Joint Feature Extraction in Hyperspectral Images. Remote Sensing, 2017, 9, 506.	4.0	28
38	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
39	Patch-based active learning (PTAL) for spectral-spatial classification on hyperspectral data. International Journal of Remote Sensing, 2014, 35, 1846-1875.	2.9	23
40	Graph Regularized Nonlinear Ridge Regression for Remote Sensing Data Analysis. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 277-285.	4.9	23
41	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
42	Parallel Attentive Correlation Tracking. IEEE Transactions on Image Processing, 2019, 28, 479-491.	9.8	23
43	Spatial–Spectral Locality-Constrained Low-Rank Representation with Semi-Supervised Hypergraph Learning for Hyperspectral Image Classification. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 4171-4182.	4.9	21
44	Moving object detection via segmentation and saliency constrained RPCA. Neurocomputing, 2019, 323, 352-362.	5.9	20
45	Complementary Tracking via Dual Color Clustering and Spatio-Temporal Regularized Correlation Learning. IEEE Access, 2018, 6, 56526-56538.	4.2	19
46	Pan-GGF: A probabilistic method for pan-sharpening with gradient domain guided image filtering. Signal Processing, 2019, 156, 177-190.	3.7	19
47	DeepACG: Co-Saliency Detection via Semantic-aware Contrast Gromov-Wasserstein Distance. , 2021, , .		19
48	Video saliency prediction using enhanced spatiotemporal alignment network. Pattern Recognition, 2021, 109, 107615.	8.1	18
49	Kernel-based nonlinear discriminant analysis for face recognition. Journal of Computer Science and Technology, 2003, 18, 788-795.	1.5	17
50	Learning ordinal discriminative features for age estimation. , 2012, , .		17
51	Monitoring activity of taking medicine by incorporating RFID and video analysis. Network Modeling Analysis in Health Informatics and Bioinformatics, 2013, 2, 61-70.	2.1	17
52	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
53	Improving the Spatial Resolution of FY-3 Microwave Radiation Imager via Fusion With FY-3/MERSI. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 3055-3063.	4.9	15
54	Image super-resolution using conditional generative adversarial network. IET Image Processing, 2019, 13, 2673-2679.	2.5	15

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55	Face image retrieval based on shape and texture feature fusion. Computational Visual Media, 2017, 3, 359-368.	17.5	14
56	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
57	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
58	FaceHunter: A multi-task convolutional neural network based face detector. Signal Processing: Image Communication, 2016, 47, 476-481.	3.2	13
59	Cascaded Regional Spatio-Temporal Feature-Routing Networks for Video Object Detection. IEEE Access, 2018, 6, 3096-3106.	4.2	12
60	Multi-component group sparse RPCA model for motion object detection under complex dynamic background. Neurocomputing, 2018, 314, 120-131.	5.9	12
61	Learning-Based Sphere Nonlinear Interpolation for Motion Synthesis. IEEE Transactions on Industrial Informatics, 2019, 15, 2927-2937.	11.3	12
62	Dual Temporal Memory Network for Efficient Video Object Segmentation. , 2020, , .		12
63	Newton Greedy Pursuit: A Quadratic Approximation Method for Sparsity-Constrained Optimization. , 2014, , .		11
64	A new extension of kernel feature and its application for visual recognition. Neurocomputing, 2008, 71, 1850-1856.	5.9	9
65	Low rank driven robust facial landmark regression. Neurocomputing, 2015, 151, 196-206.	5.9	9
66	Spatial Consistency Constrained GAN for Human Motion Transfer. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 730-742.	8.3	9
67	Joint Head Pose Estimation with Multi-task Cascaded Convolutional Networks for Face Alignment. , 2018, , .		8
68	Hierarchical attentive Siamese network for real-time visual tracking. Neural Computing and Applications, 2020, 32, 14335-14346.	5.6	8
69	Real-time manifold regularized context-aware correlation tracking. Frontiers of Computer Science, 2020, 14, 334-348.	2.4	8
70	Learning interlaced sparse Sinkhorn matching network for video super-resolution. Pattern Recognition, 2022, 124, 108475.	8.1	8
71	Low-rank weighted co-saliency detection via efficient manifold ranking. Multimedia Tools and Applications, 2019, 78, 21309-21324.	3.9	6
72	Prinet: A Prior Driven Spectral Super-Resolution Network. , 2020, , .		6

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73	Pose-Driven Realistic 2-D Motion Synthesis. IEEE Transactions on Cybernetics, 2023, 53, 2412-2425.	9.5	6
74	Discriminative Context Models for Collective Activity Recognition. , 2014, , .		5
75	Similarity Features for Facial Event Analysis. Lecture Notes in Computer Science, 2008, , 685-696.	1.3	5
76	Video Snapshot Compressive Imaging Using Residual Ensemble Network. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 5931-5943.	8.3	5
77	Additive Nearest Neighbor Feature Maps. , 2015, , .		4
78	Integrating Convolutional Neural Network and Gated Recurrent Unit for Hyperspectral Image Spectral-Spatial Classification. Lecture Notes in Computer Science, 2018, , 409-420.	1.3	4
79	Flow driven attention network for video salient object detection. IET Image Processing, 2020, 14, 997-1004.	2.5	4
80	CED-Net: contextual encoder–decoder network for 3D face reconstruction. Multimedia Systems, 2022, 28, 1713-1722.	4.7	4
81	Graph-regularized low-rank representation for aerosol optical depth retrieval. International Journal of Remote Sensing, 2016, 37, 5749-5762.	2.9	3
82	Head tracking using shapes and adaptive color histograms. Journal of Computer Science and Technology, 2002, 17, 859-864.	1.5	2
83	An improved variable-size block-matching algorithm. Multimedia Tools and Applications, 2007, 34, 221-237.	3.9	2
84	Identifying medicine bottles by incorporating RFID and video analysis. , 2011, , .		2
85	Crew exploration vehicle (CEV) attitude control using a neural–immunology/memory network. International Journal of Systems Science, 2015, 46, 152-158.	5.5	2
86	Spatial–spectral locality constrained elastic net hypergraph for hyperspectral image clustering. International Journal of Remote Sensing, 2017, 38, 7374-7388.	2.9	2
87	Correcting MODIS aerosol optical depth products using a ridge regression model. International Journal of Remote Sensing, 2018, 39, 3275-3286.	2.9	2
88	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
89	Collaborative Local-Global Learning for Temporal Action Proposal. ACM Transactions on Intelligent Systems and Technology, 2021, 12, 1-14.	4.5	2
90	Multiple Similarities Based Kernel Subspace Learning for Image Classification. Lecture Notes in Computer Science, 2006, , 244-253.	1.3	2

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91	Selecting Optimal Completion to Partial Matrix via Self-Validation. IEEE Signal Processing Letters, 2020, 27, 1265-1269.	3.6	1
92	Body parts relevance learning via expectation–maximization for human pose estimation. Multimedia Systems, 2021, 27, 927-939.	4.7	1
93	3D Tensor Auto-encoder with Application to Video Compression. ACM Transactions on Multimedia Computing, Communications and Applications, 2021, 17, 1-18.	4.3	1
94	Likelihood-constrained coupled space learning for motion synthesis. Information Sciences, 2021, 579, 72-88.	6.9	1
95	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
96	Keyframe-Editable Real-Time Motion Synthesis. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 4538-4551.	8.3	1
97	An Immunology-Inspired Fault Detection and Identification System. International Journal of Advanced Robotic Systems, 2012, 9, 64.	2.1	0
98	Region-Based Spatial Sampling for Image Classification. , 2013, , .		0
99	Multiple-Output Regression with High-Order Structure Information. , 2014, , .		0
100	Notice of Removal Coarse-to-fine human parsing with Fast R-CNN and over-segment retrieval. , 2016, , .		0
101	Fast subspace segmentation via Random Sample Probing. Neurocomputing, 2018, 319, 66-73.	5.9	0
102	Parallel Connected LSTM for Matrix Sequence Prediction with Elusive Correlations. ACM Transactions on Intelligent Systems and Technology, 2021, 12, 1-16.	4.5	0
103	Tensor LISTA: Differentiable sparse representation learning for multi-dimensional tensor. Neurocomputing, 2021, 463, 554-565.	5.9	0
104	Local Context Embedding Neural Network for Scene Semantic Segmentation. Lecture Notes in Computer Science, 2019, , 354-366.	1.3	0
105	Local Self-Expression Subspace Learning Network for Motion Capture Data. IEEE Transactions on Image Processing, 2022, 31, 4869-4883.	9.8	0