

Xianglong Liu

List of Publications by Year in descending order

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98
papers

4,131
citations

236925

25
h-index

182427

51
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99
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99
docs citations

99
times ranked

2835
citing authors

#	ARTICLE	IF	CITATIONS
1	Triplet-Based Deep Hashing Network for Cross-Modal Retrieval. IEEE Transactions on Image Processing, 2018, 27, 3893-3903.	9.8	306
2	Binary neural networks: A survey. Pattern Recognition, 2020, 105, 107281.	8.1	276
3	Two-Stream 3-D convNet Fusion for Action Recognition in Videos With Arbitrary Size and Length. IEEE Transactions on Multimedia, 2018, 20, 634-644.	7.2	209
4	Differentiable Soft Quantization: Bridging Full-Precision and Low-Bit Neural Networks. , 2019, , .		193
5	Explainable deep learning for efficient and robust pattern recognition: A survey of recent developments. Pattern Recognition, 2021, 120, 108102.	8.1	147
6	Forward and Backward Information Retention for Accurate Binary Neural Networks. , 2020, , .		143
7	Active Transfer Learning Network: A Unified Deep Joint Spectral-Spatial Feature Learning Model for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 1741-1754.	6.3	130
8	Multi-Task Consistency-Preserving Adversarial Hashing for Cross-Modal Retrieval. IEEE Transactions on Image Processing, 2020, 29, 3626-3637.	9.8	117
9	Perceptual-Sensitive GAN for Generating Adversarial Patches. Proceedings of the AAAI Conference on Artificial Intelligence, 2019, 33, 1028-1035.	4.9	115
10	Attention Convolutional Binary Neural Tree for Fine-Grained Visual Categorization. , 2020, , .		114
11	Active multi-kernel domain adaptation for hyperspectral image classification. Pattern Recognition, 2018, 77, 306-315.	8.1	110
12	Spatio-Temporal Attention Networks for Action Recognition and Detection. IEEE Transactions on Multimedia, 2020, 22, 2990-3001.	7.2	98
13	Spatio-temporal deformable 3D ConvNets with attention for action recognition. Pattern Recognition, 2020, 98, 107037.	8.1	93
14	Collaborative Hashing. , 2014, , .		85
15	Multiple feature kernel hashing for large-scale visual search. Pattern Recognition, 2014, 47, 748-757.	8.1	82
16	Query-Adaptive Reciprocal Hash Tables for Nearest Neighbor Search. IEEE Transactions on Image Processing, 2016, 25, 907-919.	9.8	78
17	Hash Bit Selection: A Unified Solution for Selection Problems in Hashing. , 2013, , .		74
18	Distributed Adaptive Binary Quantization for Fast Nearest Neighbor Search. IEEE Transactions on Image Processing, 2017, 26, 5324-5336.	9.8	71

#	ARTICLE	IF	CITATIONS
19	Coupled CycleGAN: Unsupervised Hashing Network for Cross-Modal Retrieval. Proceedings of the AAAI Conference on Artificial Intelligence, 2019, 33, 176-183.	4.9	71
20	Direct Shape Regression Networks for End-to-End Face Alignment. , 2018, , .		70
21	Query-Adaptive Hash Code Ranking for Large-Scale Multi-View Visual Search. IEEE Transactions on Image Processing, 2016, 25, 4514-4524.	9.8	65
22	Structure Sensitive Hashing With Adaptive Product Quantization. IEEE Transactions on Cybernetics, 2016, 46, 2252-2264.	9.5	62
23	Towards Unified INT8 Training for Convolutional Neural Network. , 2020, , .		61
24	Adversarial Fine-Grained Composition Learning for Unseen Attribute-Object Recognition. , 2019, , .		58
25	Dual Conditional GANs for Face Aging and Rejuvenation. , 2018, , .		56
26	Graph Convolutional Network Hashing for Cross-Modal Retrieval. , 2019, , .		56
27	Dual Attention Suppression Attack: Generate Adversarial Camouflage in Physical World. , 2021, , .		56
28	Learning binary code for fast nearest subspace search. Pattern Recognition, 2020, 98, 107040.	8.1	55
29	Compact kernel hashing with multiple features. , 2012, , .		51
30	Large-Scale Unsupervised Hashing with Shared Structure Learning. IEEE Transactions on Cybernetics, 2015, 45, 1811-1822.	9.5	51
31	Diversifying Sample Generation for Accurate Data-Free Quantization. , 2021, , .		39
32	Mobile product search with Bag of Hash Bits and boundary reranking. , 2012, , .		38
33	Multi-View Complementary Hash Tables for Nearest Neighbor Search. , 2015, , .		38
34	Bias-Based Universal Adversarial Patch Attack for Automatic Check-Out. Lecture Notes in Computer Science, 2020, , 395-410.	1.3	37
35	Patch-Wise Attack for Fooling Deep Neural Network. Lecture Notes in Computer Science, 2020, , 307-322.	1.3	36
36	Hash Bit Selection for Nearest Neighbor Search. IEEE Transactions on Image Processing, 2017, 26, 5367-5380.	9.8	35

#	ARTICLE	IF	CITATIONS
37	Interpreting and Improving Adversarial Robustness of Deep Neural Networks With Neuron Sensitivity. IEEE Transactions on Image Processing, 2021, 30, 1291-1304.	9.8	35
38	Training Robust Deep Neural Networks via Adversarial Noise Propagation. IEEE Transactions on Image Processing, 2021, 30, 5769-5781.	9.8	35
39	Coarse-to-Fine Image Inpainting via Region-wise Convolutions and Non-Local Correlation. , 2019, , .		35
40	Latent Distribution Preserving Deep Subspace Clustering. , 2019, , .		35
41	Adaptive multi-bit quantization for hashing. Neurocomputing, 2015, 151, 319-326.	5.9	32
42	Large-scale multi-task image labeling with adaptive relevance discovery and feature hashing. Signal Processing, 2015, 112, 137-145.	3.7	31
43	Fast and Incremental Loop Closure Detection Using Proximity Graphs. , 2019, , .		29
44	Self-Supervised Multiscale Adversarial Regression Network for Stereo Disparity Estimation. IEEE Transactions on Cybernetics, 2021, 51, 4770-4783.	9.5	27
45	Centered Weight Normalization in Accelerating Training of Deep Neural Networks. , 2017, , .		26
46	Transductive Relation-Propagation Network for Few-shot Learning. , 2020, , .		24
47	Query-Adaptive Hash Code Ranking for Fast Nearest Neighbor Search. , 2014, , .		23
48	Rotation Consistent Margin Loss for Efficient Low-Bit Face Recognition. , 2020, , .		23
49	Multilinear Hyperplane Hashing. , 2016, , .		22
50	Unsupervised feature selection through Gram-Schmidt orthogonalization: A word co-occurrence perspective. Neurocomputing, 2016, 173, 845-854.	5.9	22
51	GAN-Based virtual-to-real image translation for urban scene semantic segmentation. Neurocomputing, 2020, 394, 127-135.	5.9	22
52	Mixed image-keyword query adaptive hashing over multilabel images. ACM Transactions on Multimedia Computing, Communications and Applications, 2014, 10, 1-21.	4.3	21
53	Deep Joint Semantic-Embedding Hashing. , 2018, , .		21
54	Spatiotemporal Attacks for Embodied Agents. Lecture Notes in Computer Science, 2020, , 122-138.	1.3	21

#	ARTICLE	IF	CITATIONS
55	Learning Unseen Concepts via Hierarchical Decomposition and Composition. , 2020, , .		19
56	Multimedia semantics-aware query-adaptive hashing with bits reconfigurability. International Journal of Multimedia Information Retrieval, 2012, 1, 59-70.	5.2	17
57	Online semi-supervised annotation via proxy-based local consistency propagation. Neurocomputing, 2015, 149, 1573-1586.	5.9	16
58	Multi-Class Support Vector Machine via Maximizing Multi-Class Margins. , 2017, , .		16
59	Universal Adversarial Patch Attack for Automatic Checkout Using Perceptual and Attentional Bias. IEEE Transactions on Image Processing, 2022, 31, 598-611.	9.8	16
60	Understanding adversarial robustness via critical attacking route. Information Sciences, 2021, 547, 568-578.	6.9	14
61	An improved noise-robust voice activity detector based on hidden semi-Markov models. Pattern Recognition Letters, 2011, 32, 1044-1053.	4.2	12
62	Feature grouping and local soft match for mobile visual search. Pattern Recognition Letters, 2012, 33, 239-246.	4.2	12
63	Balanced Binary Neural Networks with Gated Residual. , 2020, , .		12
64	Face identification with second-order pooling in single-layer networks. Neurocomputing, 2016, 187, 11-18.	5.9	9
65	Boosting Temporal Binary Coding for Large-Scale Video Search. IEEE Transactions on Multimedia, 2021, 23, 353-364.	7.2	9
66	Progressive Generative Hashing for Image Retrieval. , 2018, , .		9
67	Fast Graph Similarity Search via Locality Sensitive Hashing. Lecture Notes in Computer Science, 2015, , 623-633.	1.3	8
68	Temporal Binary Coding for Large-Scale Video Search. , 2017, , .		7
69	Distributed Complementary Binary Quantization for Joint Hash Table Learning. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 5312-5323.	11.3	7
70	Transductive Relation-Propagation With Decoupling Training for Few-Shot Learning. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 6652-6664.	11.3	7
71	Dynamic Spatio-Temporal Feature Learning via Graph Convolution in 3D Convolutional Networks. , 2019, , .		6
72	Fast Nearest Subspace Search via Random Angular Hashing. IEEE Transactions on Multimedia, 2021, 23, 342-352.	7.2	6

#	ARTICLE	IF	CITATIONS
73	Multi-Pretext Attention Network For Few-Shot Learning With Self-Supervision. , 2021, , .		6
74	Noise-Robust Voice Activity Detector Based on Hidden Semi-Markov Models. , 2010, , .		5
75	Search by mobile image based on visual and spatial consistency. , 2011, , .		5
76	A novel rotation adaptive object detection method based on pair Hough model. Neurocomputing, 2016, 194, 246-259.	5.9	5
77	Projection based weight normalization: Efficient method for optimization on oblique manifold in DNNs. Pattern Recognition, 2020, 105, 107317.	8.1	5
78	Graph-based active semi-supervised learning: A new perspective for relieving multi-class annotation labor. , 2014, , .		4
79	Bit selection via walks on graph for hash-based nearest neighbor search. Neurocomputing, 2016, 213, 137-146.	5.9	4
80	Fast graph similarity search via hashing and its application on image retrieval. Multimedia Tools and Applications, 2018, 77, 16177-16198.	3.9	4
81	A general non-parametric active learning framework for classification on multiple manifolds. Pattern Recognition Letters, 2020, 130, 250-258.	4.2	4
82	Sequential alignment attention model for scene text recognition. Journal of Visual Communication and Image Representation, 2021, 80, 103289.	2.8	4
83	Complementary Binary Quantization for Joint Multiple Indexing. , 2018, , .		4
84	Two-Branch Attention Network via Efficient Semantic Coupling for One-Shot Learning. IEEE Transactions on Image Processing, 2022, 31, 341-351.	9.8	3
85	A robust voice activity detector based on Weibull and Gaussian Mixture distribution. , 2010, , .		2
86	Efficient semi-supervised annotation with Proxy-based Local Consistency Propagation. , 2013, , .		2
87	Hash Bit Selection Using Markov Process for Approximate Nearest Neighbor Search. , 2013, , .		2
88	Efficient segmentation for Region-based Image Retrieval using Edge Integrated Minimum Spanning Tree. , 2016, , .		2
89	Random Angular Projection for Fast Nearest Subspace Search. Lecture Notes in Computer Science, 2018, , 15-26.	1.3	2
90	Few-shot learning with relation propagation and constraint. IET Computer Vision, 2021, 15, 608-617.	2.0	2

#	ARTICLE	IF	CITATIONS
91	A heuristic algorithm for cube packing with time schedule. Science China Information Sciences, 2010, 53, 18-29.	4.3	1
92	Introduction to the Special Section on Contextual Object Analysis in Complex Scenes. IEEE Transactions on Circuits and Systems for Video Technology, 2020, 30, 3297-3300.	8.3	1
93	Hierarchical Deep Hashing for Fast Large Scale Image Retrieval. , 2021, , .		1
94	Weighted Quantization and Hamming Search for Fast Image Super-Resolution. , 2018, , .		0
95	Quarter-Point Codeword Expansion for Product Quantization. , 2019, , .		0
96	Efficient Fine-Grained Visual-Text Search Using Adversarially-Learned Hash Codes. , 2021, , .		0
97	Large-Margin Supervised Hashing. Lecture Notes in Computer Science, 2017, , 259-269.	1.3	0
98	Revisiting Audio Visual Scene-Aware Dialog. Neurocomputing, 2022, , .	5.9	0