

# Tongliang Liu

## List of Publications by Year in descending order

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94  
papers

4,691  
citations

94381

37  
h-index

118793

62  
g-index

96  
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96  
docs citations

96  
times ranked

3791  
citing authors

#	ARTICLE	IF	CITATIONS
1	Classification with Noisy Labels by Importance Reweighting. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2016, 38, 447-461.	9.7	446
2	dipIQ: Blind Image Quality Assessment by Learning-to-Rank Discriminable Image Pairs. IEEE Transactions on Image Processing, 2017, 26, 3951-3964.	6.0	241
3	On Compressing Deep Models by Low Rank and Sparse Decomposition. , 2017, , .		207
4	Fast Supervised Discrete Hashing. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 490-496.	9.7	192
5	Deep Domain Generalization via Conditional Invariant Adversarial Networks. Lecture Notes in Computer Science, 2018, , 647-663.	1.0	191
6	Decomposition-Based Transfer Distance Metric Learning for Image Classification. IEEE Transactions on Image Processing, 2014, 23, 3789-3801.	6.0	153
7	Spectral Ensemble Clustering via Weighted K-Means: Theoretical and Practical Evidence. IEEE Transactions on Knowledge and Data Engineering, 2017, 29, 1129-1143.	4.0	147
8	Multiple Kernel k-means with Incomplete Kernels. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 42, 1-1.	9.7	144
9	Unsupervised Semantic-Preserving Adversarial Hashing for Image Search. IEEE Transactions on Image Processing, 2019, 28, 4032-4044.	6.0	139
10	Multiview Matrix Completion for Multilabel Image Classification. IEEE Transactions on Image Processing, 2015, 24, 2355-2368.	6.0	122
11	Expressive power of parametrized quantum circuits. Physical Review Research, 2020, 2, .	1.3	117
12	Why ResNet Works? Residuals Generalize. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 5349-5362.	7.2	107
13	Spectral Ensemble Clustering. , 2015, , .		97
14	Deformed Graph Laplacian for Semisupervised Learning. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 2261-2274.	7.2	96
15	Semantic Structure-based Unsupervised Deep Hashing. , 2018, , .		96
16	Algorithm-Dependent Generalization Bounds for Multi-Task Learning. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2017, 39, 227-241.	9.7	94
17	DistillHash: Unsupervised Deep Hashing by Distilling Data Pairs. , 2019, , .		93
18	Joint Sparse Representation and Multitask Learning for Hyperspectral Target Detection. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 894-906.	2.7	90

#	ARTICLE	IF	CITATIONS
19	Experimental Quantum Generative Adversarial Networks for Image Generation. Physical Review Applied, 2021, 16, .	1.5	87
20	A Regularization Approach for Instance-Based Superset Label Learning. IEEE Transactions on Cybernetics, 2018, 48, 967-978.	6.2	75
21	Truncated Cauchy Non-Negative Matrix Factorization. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 246-259.	9.7	70
22	Transferring Knowledge Fragments for Learning Distance Metric from a Heterogeneous Domain. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 1013-1026.	9.7	67
23	Adaptive Morphological Reconstruction for Seeded Image Segmentation. IEEE Transactions on Image Processing, 2019, 28, 5510-5523.	6.0	65
24	Continuous Dropout. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 3926-3937.	7.2	62
25	Local Rademacher Complexity for Multi-Label Learning. IEEE Transactions on Image Processing, 2016, 25, 1495-1507.	6.0	61
26	Elastic Net Hypergraph Learning for Image Clustering and Semi-Supervised Classification. IEEE Transactions on Image Processing, 2017, 26, 452-463.	6.0	61
27	Heterogeneous Graph Attention Network for Unsupervised Multiple-Target Domain Adaptation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 1992-2003.	9.7	61
28	Representative Vector Machines: A Unified Framework for Classical Classifiers. IEEE Transactions on Cybernetics, 2016, 46, 1877-1888.	6.2	60
29	Supervised Discrete Hashing With Relaxation. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 608-617.	7.2	59
30	On the Performance of Manhattan Nonnegative Matrix Factorization. IEEE Transactions on Neural Networks and Learning Systems, 2016, 27, 1851-1863.	7.2	58
31	Adversarial Examples for Hamming Space Search. IEEE Transactions on Cybernetics, 2020, 50, 1473-1484.	6.2	56
32	Two-Stream Deep Hashing With Class-Specific Centers for Supervised Image Search. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 2189-2201.	7.2	55
33	Correcting the Triplet Selection Bias for Triplet Loss. Lecture Notes in Computer Science, 2018, , 71-86.	1.0	52
34	Learning with Biased Complementary Labels. Lecture Notes in Computer Science, 2018, , 69-85.	1.0	52
35	Large-Cone Nonnegative Matrix Factorization. IEEE Transactions on Neural Networks and Learning Systems, 2016, 28, 1-14.	7.2	48
36	Multiclass Learning With Partially Corrupted Labels. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 2568-2580.	7.2	46

#	ARTICLE	IF	CITATIONS
37	Dimensionality-Dependent Generalization Bounds for $k$ -Dimensional Coding Schemes. <i>Neural Computation</i> , 2016, 28, 2213-2249.	1.3	45
38	HRSiam: High-Resolution Siamese Network, Towards Space-Borne Satellite Video Tracking. <i>IEEE Transactions on Image Processing</i> , 2021, 30, 3056-3068.	6.0	45
39	Absent Multiple Kernel Learning Algorithms. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2020, 42, 1303-1316.	9.7	43
40	Large-Margin Label-Calibrated Support Vector Machines for Positive and Unlabeled Learning. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2019, 30, 3471-3483.	7.2	39
41	Quantum noise protects quantum classifiers against adversaries. <i>Physical Review Research</i> , 2021, 3, .	1.3	39
42	Deep Blur Mapping: Exploiting High-Level Semantics by Deep Neural Networks. <i>IEEE Transactions on Image Processing</i> , 2018, 27, 5155-5166.	6.0	35
43	On Better Exploring and Exploiting Task Relationships in Multitask Learning: Joint Model and Feature Learning. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2018, 29, 1975-1985.	7.2	32
44	No Reference Quality Assessment for Multiply-Distorted Images Based on an Improved Bag-of-Words Model. <i>IEEE Signal Processing Letters</i> , 2015, 22, 1811-1815.	2.1	31
45	Learnability of Quantum Neural Networks. <i>PRX Quantum</i> , 2021, 2, .	3.5	31
46	Improving Medical Images Classification With Label Noise Using Dual-Uncertainty Estimation. <i>IEEE Transactions on Medical Imaging</i> , 2022, 41, 1533-1546.	5.4	31
47	Loss Decomposition and Centroid Estimation for Positive and Unlabeled Learning. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2021, 43, 918-932.	9.7	27
48	Orthogonal Deep Neural Networks. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2021, 43, 1352-1368.	9.7	24
49	A Second-Order Approach to Learning with Instance-Dependent Label Noise. , 2021, , .		24
50	On the robustness and generalization of Cauchy regression. , 2014, , .		22
51	Understanding How Feature Structure Transfers in Transfer Learning. , 2017, , .		22
52	Positive and Unlabeled Learning with Label Disambiguation. , 2019, , .		20
53	A Grover-search based quantum learning scheme for classification. <i>New Journal of Physics</i> , 2021, 23, 023020.	1.2	18
54	Laplacian Welsch Regularization for Robust Semisupervised Learning. <i>IEEE Transactions on Cybernetics</i> , 2022, 52, 164-177.	6.2	17

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55	A Shape Transformation-based Dataset Augmentation Framework for Pedestrian Detection. International Journal of Computer Vision, 2021, 129, 1121-1138.	10.9	17
56	An Efficient and Provable Approach for Mixture Proportion Estimation Using Linear Independence Assumption. , 2018, 2018, 4480-4489.		16
57	Transferable Coupled Network for Zero-Shot Sketch-Based Image Retrieval. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 9181-9194.	9.7	16
58	Eigenfunction-Based Multitask Learning in a Reproducing Kernel Hilbert Space. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 1818-1830.	7.2	15
59	Label Propagated Nonnegative Matrix Factorization for Clustering. IEEE Transactions on Knowledge and Data Engineering, 2022, 34, 340-351.	4.0	14
60	Harnessing Side Information for Classification Under Label Noise. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 3178-3192.	7.2	13
61	KFC: An Efficient Framework for Semi-Supervised Temporal Action Localization. IEEE Transactions on Image Processing, 2021, 30, 6869-6878.	6.0	13
62	Generative-Discriminative Complementary Learning. Proceedings of the AAAI Conference on Artificial Intelligence, 2020, 34, 6526-6533.	3.6	13
63	COVID-MTL: Multitask learning with Shift3D and random-weighted loss for COVID-19 diagnosis and severity assessment. Pattern Recognition, 2022, 124, 108499.	5.1	13
64	Me-Momentum: Extracting Hard Confident Examples from Noisily Labeled Data. , 2021, , .		13
65	Bridging the Gap Between Few-Shot and Many-Shot Learning via Distribution Calibration. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 9830-9843.	9.7	12
66	Why Controlling the Asymptomatic Infection Is Important: A Modelling Study with Stability and Sensitivity Analysis. Fractal and Fractional, 2022, 6, 197.	1.6	10
67	Learning relative features through adaptive pooling for image classification. , 2014, , .		8
68	Removing Adversarial Noise in Class Activation Feature Space. , 2021, , .		8
69	Quantum-inspired algorithm for general minimum conical hull problems. Physical Review Research, 2020, 2, .	1.3	7
70	Domain Adaptation with Conditional Transferable Components. JMLR Workshop and Conference Proceedings, 2016, 48, 2839-2848.	1.4	7
71	Video Face Editing Using Temporal-Spatial-Smooth Warping. ACM Transactions on Intelligent Systems and Technology, 2016, 7, 1-28.	2.9	6
72	Towards Digital Retina in Smart Cities: A Model Generation, Utilization and Communication Paradigm. , 2019, , .		6

#	ARTICLE	IF	CITATIONS
73	Instance-Dependent Positive and Unlabeled Learning with Labeling Bias Estimation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, PP, 1-1.	9.7	6
74	LR-SVM+: Learning Using Privileged Information with Noisy Labels. IEEE Transactions on Multimedia, 2022, 24, 1080-1092.	5.2	6
75	Boosting Fairness for Masked Face Recognition. , 2021, , .		6
76	Efficient Bipartite Entanglement Detection Scheme with a Quantum Adversarial Solver. Physical Review Letters, 2022, 128, 110501.	2.9	6
77	Exploring Language Hierarchy for Video Grounding. IEEE Transactions on Image Processing, 2022, 31, 4693-4706.	6.0	6
78	Dual Diversified Dynamical Gaussian Process Latent Variable Model for Video Repairing. IEEE Transactions on Image Processing, 2016, 25, 3626-3637.	6.0	5
79	Towards Efficient Front-End Visual Sensing for Digital Retina: A Model-Centric Paradigm. IEEE Transactions on Multimedia, 2020, 22, 3002-3013.	5.2	5
80	Quantum Differentially Private Sparse Regression Learning. IEEE Transactions on Information Theory, 2022, 68, 5217-5233.	1.5	5
81	Group Feedback Capsule Network. IEEE Transactions on Image Processing, 2020, 29, 6789-6799.	6.0	4
82	Type-I Generative Adversarial Attack. IEEE Transactions on Dependable and Secure Computing, 2023, 20, 2593-2606.	3.7	4
83	An Optimal Transport Analysis on Generalization in Deep Learning. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 2842-2853.	7.2	3
84	Extended : Learning with Mixed Closed-set and Open-set Noisy Labels. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, , 1-12.	9.7	3
85	Robust Weight Perturbation for Adversarial Training. , 2022, , .		3
86	Relation-Aware Fine-Grained Reasoning Network for Textbook Question Answering. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 15-27.	7.2	2
87	Vecnet: A Spectral and Multi-Scale Spatial Fusion Deep Network for Pixel-Level Cloud Type Classification in Himawari-8 Imagery. , 2021, , .		2
88	Deep Heterogeneous Multi-Task Metric Learning for Visual Recognition and Retrieval. , 2020, , .		2
89	A Machine Learning Approach for Predicting Human Preference for Graph Layouts*. , 2021, , .		1
90	Robust Angular Local Descriptor Learning. Lecture Notes in Computer Science, 2019, , 420-435.	1.0	1

#	ARTICLE	IF	CITATIONS
91	Understanding How Pretraining Regularizes Deep Learning Algorithms. IEEE Transactions on Neural Networks and Learning Systems, 2021, PP, 1-13.	7.2	1
92	The design of the ejection system of the electromagnetic shooting robot. , 2015, , .		0
93	On the Rates of Convergence From Surrogate Risk Minimizers to the Bayes Optimal Classifier. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 5766-5774.	7.2	0
94	Label-Noise Robust Domain Adaptation. Proceedings of Machine Learning Research, 2020, 119, 10913-10924.	0.3	0