

Xiangliang Zhang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

173
papers

3,001
citations

30
h-index

50
g-index

203
ext. papers

4,205
ext. citations

4.2
avg. IF

5.97
L-index

#	Paper	IF	Citations
173	Semantic guide for semi-supervised few-shot multi-label node classification. <i>Information Sciences</i> , 2022 ,	7.7	1
172	Hierarchical Hyperedge Embedding-Based Representation Learning for Group Recommendation. <i>ACM Transactions on Information Systems</i> , 2022 , 40, 1-27	4.8	2
171	Cross-Species Protein Function Prediction with Asynchronous-Random Walk. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2021 , 18, 1439-1450	3	2
170	CDPath: Cooperative Driver Pathways Discovery Using Integer Linear Programming and Markov Clustering. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2021 , 18, 1384-1395	3	2
169	Dynamic Set Similarity Join: An Update Log based Approach. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2021 , 1-1	4.2	
168	HGATE: Heterogeneous Graph Attention Auto-Encoders. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2021 , 1-1	4.2	2
167	Graph Embedding for Recommendation against Attribute Inference Attacks 2021 ,		4
166	Enabling a large-scale assessment of litter along Saudi Arabian red sea shores by combining drones and machine learning. <i>Environmental Pollution</i> , 2021 , 277, 116730	9.3	16
165	Rise and fall of the global conversation and shifting sentiments during the COVID-19 pandemic. <i>Humanities and Social Sciences Communications</i> , 2021 , 8,	2.8	4
164	Anthropogenic litter density and composition data acquired flying commercial drones on sandy beaches along the Saudi Arabian Red Sea. <i>Data in Brief</i> , 2021 , 36, 107056	1.2	0
163	Multiple clusterings of heterogeneous information networks. <i>Machine Learning</i> , 2021 , 110, 1505-1526	4	0
162	Active Multilabel Crowd Consensus. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2021 , 32, 1448-1459	10.3	6
161	Cooperative driver pathway discovery via fusion of multi-relational data of genes, miRNAs and pathways. <i>Briefings in Bioinformatics</i> , 2021 , 22, 1984-1999	13.4	1
160	Individuality- and Commonality-Based Multiview Multilabel Learning. <i>IEEE Transactions on Cybernetics</i> , 2021 , 51, 1716-1727	10.2	9
159	DeepIDA: predicting isoform-disease associations by data fusion and deep neural networks. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2021 , PP,	3	1
158	Attack Transferability Characterization for Adversarially Robust Multi-label Classification. <i>Lecture Notes in Computer Science</i> , 2021 , 397-413	0.9	
157	Multiview Multi-Instance Multilabel Active Learning. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2021 , PP,	10.3	1

156	CrowdWT. <i>ACM Transactions on Knowledge Discovery From Data</i> , 2021 , 15, 1-24	4	4
155	Approximately Counting Butterflies in Large Bipartite Graph Streams. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2021 , 1-1	4.2	1
154	Secure Crowdsensed Data Trading Based on Blockchain. <i>IEEE Transactions on Mobile Computing</i> , 2021 , 1-1	4.6	5
153	FARF: A Fair and Adaptive Random Forests Classifier. <i>Lecture Notes in Computer Science</i> , 2021 , 245-256	0.9	1
152	Deterministic and probabilistic deep learning models for inverse design of broadband acoustic cloak. <i>Physical Review Research</i> , 2021 , 3,	3.9	17
151	Imbalance deep multi-instance learning for predicting isoform-isoform interactions. <i>International Journal of Intelligent Systems</i> , 2021 , 36, 2797-2824	8.4	2
150	The soundscape of the Anthropocene ocean. <i>Science</i> , 2021 , 371,	33.3	113
149	IsoDA: Isoform-Disease Association Prediction by Multiomics Data Fusion. <i>Journal of Computational Biology</i> , 2021 , 28, 804-819	1.7	0
148	FENet: A Frequency Extraction Network for Obstructive Sleep Apnea Detection. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021 , 25, 2848-2856	7.2	4
147	A Graph-based Approach for Trajectory Similarity Computation in Spatial Networks 2021 ,		1
146	Mapping full seismic waveforms to vertical velocity profiles by deep learning. <i>Geophysics</i> , 2021 , 86, R7113-R721	18	
145	A prediction and imputation method for marine animal movement data. <i>PeerJ Computer Science</i> , 2021 , 7, e656	2.7	0
144	Noise-robust Deep Cross-Modal Hashing. <i>Information Sciences</i> , 2021 , 581, 136-154	7.7	1
143	Attention-Aware Answers of the Crowd 2020 , 451-459		4
142	Personalized Geographical Influence Modeling for POI Recommendation. <i>IEEE Intelligent Systems</i> , 2020 , 35, 18-27	4.2	14
141	Risk Convergence of Centered Kernel Ridge Regression With Large Dimensional Data. <i>IEEE Transactions on Signal Processing</i> , 2020 , 68, 1574-1588	4.8	1
140	CMAL: Cost-effective Multi-label Active Learning by Querying Subexamples. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2020 , 1-1	4.2	2
139	Attributed heterogeneous network fusion via collaborative matrix tri-factorization. <i>Information Fusion</i> , 2020 , 63, 153-165	16.7	8

138	A Literature Review of Gene Function Prediction by Modeling Gene Ontology. <i>Frontiers in Genetics</i> , 2020 , 11, 400	4.5	18
137	Accurately Estimating User Cardinalities and Detecting Super Spreaders over Time. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2020 , 1-1	4.2	1
136	Meta-Path Hierarchical Heterogeneous Graph Convolution Network for High Potential Scholar Recognition 2020 ,		1
135	Deep Incomplete Multi-view Multiple Clusterings 2020 ,		3
134	Multi-typed Objects Multi-view Multi-instance Multi-label Learning 2020 ,		2
133	Air Writing via Receiver Array-Based Ultrasonic Source Localization. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020 , 1-1	5.2	31
132	Jointly Learning Representations of Nodes and Attributes for Attributed Networks. <i>ACM Transactions on Information Systems</i> , 2020 , 38, 1-32	4.8	13
131	Attackability Characterization of Adversarial Evasion Attack on Discrete Data 2020 ,		2
130	REA: Robust Cross-lingual Entity Alignment Between Knowledge Graphs 2020 ,		3
129	Multi-modal Network Representation Learning 2020 ,		1
128	CRSAL. <i>ACM Transactions on Information Systems</i> , 2020 , 38, 1-40	4.8	8
127	Learning Short-Term Differences and Long-Term Dependencies for Entity Alignment. <i>Lecture Notes in Computer Science</i> , 2020 , 92-109	0.9	1
126	Weakly-Supervised Multi-view Multi-instance Multi-label Learning 2020 ,		3
125	Isoform-Disease Association Prediction by Data Fusion. <i>Lecture Notes in Computer Science</i> , 2020 , 44-55	0.9	1
124	Decentralized Embedding Framework for Large-Scale Networks. <i>Lecture Notes in Computer Science</i> , 2020 , 425-441	0.9	3
123	Gaussian mixture embedding of multiple node roles in networks. <i>World Wide Web</i> , 2020 , 23, 927-950	2.9	0
122	Multi-label zero-shot learning with graph convolutional networks. <i>Neural Networks</i> , 2020 , 132, 333-341	9.1	8
121	Artificial intelligence: the silver bullet for sustainable materials development. <i>Green Chemistry</i> , 2020 , 22, 7521-7528	10	30

120	Efficient locality-sensitive hashing over high-dimensional streaming data. <i>Neural Computing and Applications</i> , 2020 , 1	4.8	0
119	Representation Learning with Multi-level Attention for Activity Trajectory Similarity Computation. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2020 , 1-1	4.2	3
118	Robust Federated Learning via Collaborative Machine Teaching. <i>Proceedings of the AAAI Conference on Artificial Intelligence</i> , 2020 , 34, 4075-4082	5	5
117	. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2020 , 1-1	4.2	2
116	Multi-View Multiple Clusterings Using Deep Matrix Factorization. <i>Proceedings of the AAAI Conference on Artificial Intelligence</i> , 2020 , 34, 6348-6355	5	9
115	Predicting functions of maize proteins using graph convolutional network. <i>BMC Bioinformatics</i> , 2020 , 21, 420	3.6	7
114	Differentiating isoform functions with collaborative matrix factorization. <i>Bioinformatics</i> , 2020 , 36, 1864-1871	4.7	8
113	Privacy Risk Analysis and Mitigation of Analytics Libraries in the Android Ecosystem. <i>IEEE Transactions on Mobile Computing</i> , 2020 , 19, 1184-1199	4.6	48
112	Challenges and Directions for Green Chemical Engineering Role of Nanoscale Materials 2020 , 1-18		7
111	GraPASA: Parametric graph embedding via siamese architecture. <i>Information Sciences</i> , 2020 , 512, 1442-1457	4.7	3
110	Utilizing Dynamic Properties of Sharing Bits and Registers to Estimate User Cardinalities Over Time 2019 ,		4
109	Semi-Supervised Entity Alignment via Knowledge Graph Embedding with Awareness of Degree Difference 2019 ,		25
108	Constructing Features for Detecting Android Malicious Applications: Issues, Taxonomy and Directions. <i>IEEE Access</i> , 2019 , 7, 67602-67631	3.5	46
107	SeqST-ResNet: A Sequential Spatial Temporal ResNet for Task Prediction in Spatial Crowdsourcing. <i>Lecture Notes in Computer Science</i> , 2019 , 260-275	0.9	3
106	SNOD: a fast sampling method of exploring node orbit degrees for large graphs. <i>Knowledge and Information Systems</i> , 2019 , 61, 301-326	2.4	2
105	A Novel Framework for Node/Edge Attributed Graph Embedding. <i>Lecture Notes in Computer Science</i> , 2019 , 169-182	0.9	6
104	Interview Choice Reveals Your Preference on the Market 2019 ,		13
103	Tracking Influential Nodes in Time-Decaying Dynamic Interaction Networks 2019 ,		6

102	STLP-OD: Spatial and Temporal Label Propagation for Traffic Outlier Detection. <i>IEEE Access</i> , 2019 , 7, 63036-63044	3.5	5
101	Submodular Optimization over Streams with Inhomogeneous Decays. <i>Proceedings of the AAAI Conference on Artificial Intelligence</i> , 2019 , 33, 5861-5868	5	4
100	Deep Learning Resolves Representative Movement Patterns in a Marine Predator Species. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 2935	2.6	1
99	A novel hybrid publication recommendation system using compound information. <i>World Wide Web</i> , 2019 , 22, 2499-2517	2.9	2
98	ActiveHNE: Active Heterogeneous Network Embedding 2019 ,		32
97	Multi-View Multiple Clustering 2019 ,		10
96	Error-Bounded Approximation of Data Stream: Methods and Theories. <i>Studies in Big Data</i> , 2019 , 93-122	0.9	
95	Efficient Estimation of Dynamic Density Functions with Applications in Data Streams. <i>Studies in Big Data</i> , 2019 , 247-278	0.9	
94	Improving Cross-lingual Entity Alignment via Optimal Transport 2019 ,		6
93	Selective Matrix Factorization for Multi-relational Data Fusion. <i>Lecture Notes in Computer Science</i> , 2019 , 313-329	0.9	3
92	Co-Embedding Attributed Networks 2019 ,		47
91	Multi-Order Attentive Ranking Model for Sequential Recommendation. <i>Proceedings of the AAAI Conference on Artificial Intelligence</i> , 2019 , 33, 5709-5716	5	26
90	AMENDER: An Attentive and Aggregate Multi-layered Network for Dataset Recommendation 2019 ,		2
89	Cross-Modal Zero-Shot Hashing 2019 ,		3
88	DMIL-III: Isoform-isoform interaction prediction using deep multi-instance learning method 2019 ,		3
87	DeepGOA: Predicting Gene Ontology Annotations of Proteins via Graph Convolutional Network 2019 ,		3
86	Dataset Recommendation via Variational Graph Autoencoder 2019 ,		3
85	2019 ,		3

84	Protecting multi-party privacy in location-aware social point-of-interest recommendation. <i>World Wide Web</i> , 2019 , 22, 863-883	2.9	7
83	A Privacy-Preserving Framework for Trust-Oriented Point-of-Interest Recommendation. <i>IEEE Access</i> , 2018 , 6, 393-404	3.5	16
82	CreditCoin: A Privacy-Preserving Blockchain-Based Incentive Announcement Network for Communications of Smart Vehicles. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2018 , 19, 2204-2220	6.1	288
81	Use of unmanned aerial vehicles for efficient beach litter monitoring. <i>Marine Pollution Bulletin</i> , 2018 , 131, 662-673	6.7	86
80	. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2018 , 30, 73-86	4.2	22
79	Abstracting massive data for lightweight intrusion detection in computer networks. <i>Information Sciences</i> , 2018 , 433-434, 417-430	7.7	40
78	Efficient evaluation of shortest travel-time path queries through spatial mashups. <i>GeoInformatica</i> , 2018 , 22, 3-28	2.5	14
77	Detecting Android malicious apps and categorizing benign apps with ensemble of classifiers. <i>Future Generation Computer Systems</i> , 2018 , 78, 987-994	7.5	128
76	Discovering and understanding android sensor usage behaviors with data flow analysis. <i>World Wide Web</i> , 2018 , 21, 105-126	2.9	17
75	Exploiting reject option in classification for social discrimination control. <i>Information Sciences</i> , 2018 , 425, 18-33	7.7	12
74	Dynamic Embeddings for User Profiling in Twitter 2018 ,		33
73	Multi-label Learning with Highly Incomplete Data via Collaborative Embedding 2018 ,		6
72	Camel 2018 ,		17
71	Task-Guided and Semantic-Aware Ranking for Academic Author-Paper Correlation Inference 2018 ,		10
70	Randomizing SVM Against Adversarial Attacks Under Uncertainty. <i>Lecture Notes in Computer Science</i> , 2018 , 556-568	0.9	1
69	Efficient task assignment in spatial crowdsourcing with worker and task privacy protection. <i>GeoInformatica</i> , 2018 , 22, 335-362	2.5	67
68	Spatio-Temporal Attention based Recurrent Neural Network for Next Location Prediction 2018 ,		11
67	Transfer collaborative filtering from multiple sources via consensus regularization. <i>Neural Networks</i> , 2018 , 108, 287-295	9.1	8

66	DroidEnsemble: Detecting Android Malicious Applications With Ensemble of String and Structural Static Features. <i>IEEE Access</i> , 2018 , 1-1	3.5	54
65	An effective suggestion method for keyword search of databases. <i>World Wide Web</i> , 2017 , 20, 729-747	2.9	1
64	Web-ADARE: A web-aided data repairing system. <i>Neurocomputing</i> , 2017 , 253, 201-214	5.4	1
63	Characterizing Android apps behavior for effective detection of malapps at large scale. <i>Future Generation Computer Systems</i> , 2017 , 75, 30-45	7.5	50
62	Collaborative User Network Embedding for Social Recommender Systems 2017 , 381-389		50
61	An up-to-date comparison of state-of-the-art classification algorithms. <i>Expert Systems With Applications</i> , 2017 , 82, 128-150	7.8	194
60	When Differential Privacy Meets Randomized Perturbation: A Hybrid Approach for Privacy-Preserving Recommender System. <i>Lecture Notes in Computer Science</i> , 2017 , 576-591	0.9	18
59	Privacy-Preserving Task Assignment in Spatial Crowdsourcing. <i>Journal of Computer Science and Technology</i> , 2017 , 32, 905-918	1.7	27
58	A scalable community detection algorithm for large graphs using stochastic block models. <i>Intelligent Data Analysis</i> , 2017 , 21, 1463-1485	1.1	3
57	Delve. <i>SIGKDD Explorations: Newsletter of the Special Interest Group (SIG) on Knowledge Discovery & Data Mining</i> , 2017 , 19, 36-46	4.6	8
56	KDE-Track: An Efficient Dynamic Density Estimator for Data Streams. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2017 , 29, 642-655	4.2	14
55	The Interaction Between Schema Matching and Record Matching in Data Integration. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2017 , 29, 186-199	4.2	12
54	2017 ,		1
53	Marmite 2017 ,		9
52	Approximately counting triangles in large graph streams including edge duplicates with a fixed memory usage. <i>Proceedings of the VLDB Endowment</i> , 2017 , 11, 162-175	3.1	19
51	Delve: A Data Set Retrieval and Document Analysis System. <i>Lecture Notes in Computer Science</i> , 2017 , 400-403	0.9	1
50	Modeling Temporal Behavior of Awards Effect on Viewership of Movies. <i>Lecture Notes in Computer Science</i> , 2017 , 724-736	0.9	
49	Flash Flood Detection in Urban Cities Using Ultrasonic and Infrared Sensors. <i>IEEE Sensors Journal</i> , 2016 , 16, 7204-7216	4	38

48	Is Attribute-Based Zero-Shot Learning an Ill-Posed Strategy?. <i>Lecture Notes in Computer Science</i> , 2016 , 749-760	0.9	1
47	TRIP: An interactive retrieving-inferring data imputation approach 2016 ,		1
46	Optimizing Cost of Continuous Overlapping Queries over Data Streams by Filter Adaption. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2016 , 28, 1258-1271	4.2	6
45	Modeling and predicting AD progression by regression analysis of sequential clinical data. <i>Neurocomputing</i> , 2016 , 195, 50-55	5.4	5
44	Content-Agnostic Malware Detection in Heterogeneous Malicious Distribution Graph 2016 ,		3
43	Detecting Anomaly in Traffic Flow from Road Similarity Analysis. <i>Lecture Notes in Computer Science</i> , 2016 , 92-104	0.9	6
42	CrowdAidRepair: A Crowd-Aided Interactive Data Repairing Method. <i>Lecture Notes in Computer Science</i> , 2016 , 51-66	0.9	
41	Learning from Your Network of Friends: A Trajectory Representation Learning Model Based on Online Social Ties 2016 ,		6
40	Large margin classification with indefinite similarities. <i>Machine Learning</i> , 2016 , 103, 215-237	4	6
39	TRIP: An Interactive Retrieving-Inferring Data Imputation Approach. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2015 , 27, 2550-2563	4.2	13
38	A PCA-Based Change Detection Framework for Multidimensional Data Streams 2015 ,		34
37	Exploring Permission-Induced Risk in Android Applications for Malicious Application Detection. <i>IEEE Transactions on Information Forensics and Security</i> , 2014 , 9, 1869-1882	8	202
36	TideWatch: Fingerprinting the cyclicalilty of big data workloads 2014 ,		6
35	. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2014 , 26, 1644-1656	4.2	53
34	Autonomic intrusion detection: Adaptively detecting anomalies over unlabeled audit data streams in computer networks. <i>Knowledge-Based Systems</i> , 2014 , 70, 103-117	7.3	69
33	Maximum error-bounded Piecewise Linear Representation for online stream approximation. <i>VLDB Journal</i> , 2014 , 23, 915-937	3.9	33
32	Adding Robustness to Support Vector Machines Against Adversarial Reverse Engineering 2014 ,		10
31	CAF: Cluster Algorithm and A-Star with Fuzzy Approach for Lifetime Enhancement in Wireless Sensor Networks. <i>Abstract and Applied Analysis</i> , 2014 , 2014, 1-17	0.7	6

30	Cost Reduction for Web-Based Data Imputation. <i>Lecture Notes in Computer Science</i> , 2014 , 438-452	0.9	6
29	Anti-discrimination Analysis Using Privacy Attack Strategies. <i>Lecture Notes in Computer Science</i> , 2014 , 694-710	0.9	13
28	Chapter 14: Automated Mining of Disease-Specific Protein Interaction Networks Based on Biomedical Literature. <i>Science, Engineering, and Biology Informatics</i> , 2014 , 393-415		
27	Securing Recommender Systems Against Shilling Attacks Using Social-Based Clustering. <i>Journal of Computer Science and Technology</i> , 2013 , 28, 616-624	1.7	14
26	Foreword to the Special Focus on Mathematics, Data and Knowledge. <i>Mathematics in Computer Science</i> , 2013 , 7, 379-386	0.5	
25	Controlling Attribute Effect in Linear Regression 2013 ,		34
24	Local correlation detection with linearity enhancement in streaming data 2013 ,		12
23	Video Quality Prediction over Wireless 4G. <i>Lecture Notes in Computer Science</i> , 2013 , 414-425	0.9	1
22	Understanding and analyzing network traffic. <i>IEEE Network</i> , 2012 , 26, 4-5	11.4	1
21	Virtual machine migration in an over-committed cloud 2012 ,		11
20	Decision Theory for Discrimination-Aware Classification 2012 ,		60
19	Efficient estimation of dynamic density functions with an application to outlier detection 2012 ,		5
18	Multiplicative Algorithms for Constrained Non-negative Matrix Factorization 2012 ,		2
17	High-speed web attack detection through extracting exemplars from HTTP traffic 2011 ,		4
16	Network traffic monitoring, analysis and anomaly detection [Guest Editorial]. <i>IEEE Network</i> , 2011 , 25, 6-7	11.4	5
15	Clustering Recommenders in Collaborative Filtering Using Explicit Trust Information. <i>International Federation for Information Processing</i> , 2011 , 82-97		15
14	Analysis and Modeling of Social Influence in High Performance Computing Workloads. <i>Lecture Notes in Computer Science</i> , 2011 , 193-204	0.9	5
13	K-AP: Generating Specified K Clusters by Efficient Affinity Propagation 2010 ,		27

12	Adaptively detecting changes in Autonomic Grid Computing 2010 ,		8
11	Abstracting Audit Data for Lightweight Intrusion Detection. <i>Lecture Notes in Computer Science</i> , 2010 , 201-215	0.9	3
10	Self-adaptive Change Detection in Streaming Data with Non-stationary Distribution. <i>Lecture Notes in Computer Science</i> , 2010 , 334-345	0.9	1
9	Toward autonomic grids 2009 ,		15
8	Constructing attribute weights from computer audit data for effective intrusion detection. <i>Journal of Systems and Software</i> , 2009 , 82, 1974-1981	3.3	31
7	Fast intrusion detection based on a non-negative matrix factorization model. <i>Journal of Network and Computer Applications</i> , 2009 , 32, 31-44	7.9	34
6	Attribute Normalization in Network Intrusion Detection 2009 ,		29
5	2009 ,		3
4	Data Streaming with Affinity Propagation. <i>Lecture Notes in Computer Science</i> , 2008 , 628-643	0.9	39
3	Processing of massive audit data streams for real-time anomaly intrusion detection. <i>Computer Communications</i> , 2008 , 31, 58-72	5.1	62
2	Profiling program behavior for anomaly intrusion detection based on the transition and frequency property of computer audit data. <i>Computers and Security</i> , 2006 , 25, 539-550	4.9	52
1	Fast-adapting and privacy-preserving federated recommender system. <i>VLDB Journal</i> ,1	3.9	5