

Hanghang Tong

List of Publications by Year in descending order

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88
papers

6,202
citations

394421

19
h-index

276875

41
g-index

89
all docs

89
docs citations

89
times ranked

4521
citing authors

#	ARTICLE	IF	CITATIONS
1	Graph based anomaly detection and description: a survey. Data Mining and Knowledge Discovery, 2015, 29, 626-688.	3.7	897
2	Fast Random Walk with Restart and Its Applications. IEEE International Conference on Data Mining, 2006, , .	0.0	723
3	Graph convolutional networks: a comprehensive review. Computational Social Networks, 2019, 6, .	2.1	614
4	Random walk with restart: fast solutions and applications. Knowledge and Information Systems, 2008, 14, 327-346.	3.2	307
5	Activity recognition with smartphone sensors. Tsinghua Science and Technology, 2014, 19, 235-249.	6.1	275
6	Manifold-ranking based image retrieval. , 2004, , .		274
7	RoIX. , 2012, , .		239
8	Center-piece subgraphs. , 2006, , .		207
9	Fast best-effort pattern matching in large attributed graphs. , 2007, , .		188
10	It's who you know. , 2011, , .		152
11	BIG-ALIGN: Fast Bipartite Graph Alignment. , 2013, , .		107
12	Using ghost edges for classification in sparsely labeled networks. , 2008, , .		106
13	Generalized Manifold-Ranking-Based Image Retrieval. IEEE Transactions on Image Processing, 2006, 15, 3170-3177.	9.8	101
14	GBASE. , 2011, , .		90
15	Centralities in Large Networks: Algorithms and Observations. , 2011, , .		86
16	Non-Negative Residual Matrix Factorization with Application to Graph Anomaly Detection. , 2011, , .		83
17	Fast Random Walk Graph Kernel. , 2012, , .		81
18	Fast and reliable anomaly detection in categorical data. , 2012, , .		76

#	ARTICLE	IF	CITATIONS
19	Colibri. , 2008, , .		74
20	Information spreading in context. , 2011, , .		72
21	PICS: Parameter-free Identification of Cohesive Subgroups in Large Attributed Graphs. , 2012, , .		72
22	Fast direction-aware proximity for graph mining. , 2007, , .		65
23	Large-Scale Off-Target Identification Using Fast and Accurate Dual Regularized One-Class Collaborative Filtering and Its Application to Drug Repurposing. PLoS Computational Biology, 2016, 12, e1005135.	3.2	65
24	gbase: an efficient analysis platform for large graphs. VLDB Journal, 2012, 21, 637-650.	4.1	62
25	Node Immunization on Large Graphs: Theory and Algorithms. IEEE Transactions on Knowledge and Data Engineering, 2016, 28, 113-126.	5.7	62
26	Detecting high-quality posts in community question answering sites. Information Sciences, 2015, 302, 70-82.	6.9	60
27	Online Travel Mode Identification Using Smartphones With Battery Saving Considerations. IEEE Transactions on Intelligent Transportation Systems, 2016, 17, 2921-2934.	8.0	54
28	Dual-Regularized One-Class Collaborative Filtering. , 2014, , .		50
29	FASCINATE. , 2016, , .		50
30	Inside the atoms. , 2014, , .		45
31	Few-shot Network Anomaly Detection via Cross-network Meta-learning. , 2021, , .		42
32	Metric forensics. , 2010, , .		39
33	VEGAS: Visual influEnce GrAph Summarization on Citation Networks. IEEE Transactions on Knowledge and Data Engineering, 2015, 27, 3417-3431.	5.7	39
34	Data-Driven Computational Social Science: A Survey. Big Data Research, 2020, 21, 100145.	4.2	39
35	Flexible and Robust Multi-Network Clustering. , 2015, , .		39
36	MATRI. , 2013, , .		36

#	ARTICLE	IF	CITATIONS
37	FIRST. , 2017, , .		36
38	Shifu2: A Network Representation Learning Based Model for Advisor-advisee Relationship Mining. IEEE Transactions on Knowledge and Data Engineering, 2019, , 1-1.	5.7	32
39	Disease gene prioritization by integrating tissue-specific molecular networks using a robust multi-network model. BMC Bioinformatics, 2016, 17, 453.	2.6	31
40	Mining Connection Pathways for Marked Nodes in Large Graphs. , 2013, , .		29
41	Panther. , 2015, , .		29
42	Graph Convolutional Networks: Algorithms, Applications and Open Challenges. Lecture Notes in Computer Science, 2018, , 79-91.	1.3	27
43	Fast Eigen-Functions Tracking on Dynamic Graphs. , 2015, , .		26
44	SympGraph. , 2012, , .		25
45	Guiding supervised topic modeling for content based tag recommendation. Neurocomputing, 2018, 314, 479-489.	5.9	22
46	High-Order Structure Exploration on Massive Graphs. ACM Transactions on Knowledge Discovery From Data, 2021, 15, 1-26.	3.5	22
47	Towards Optimal Connectivity on Multi-Layered Networks. IEEE Transactions on Knowledge and Data Engineering, 2017, 29, 2332-2346.	5.7	20
48	Robust Multi-Network Clustering via Joint Cross-Domain Cluster Alignment. , 2015, 2015, 291-300.		19
49	The Child is Father of the Man. , 2015, , .		19
50	R<sc>gt;a<sc>gt;P<sc>gt;are<sc>gt;: A Generic Strategy for Cold-Start Rating Prediction Problem. IEEE Transactions on Knowledge and Data Engineering, 2017, 29, 1296-1309.	5.7	18
51	Nonbacktracking Eigenvalues under Node Removal: X-Centrality and Targeted Immunization. SIAM Journal on Mathematics of Data Science, 2021, 3, 656-675.	1.8	18
52	Version-Aware Rating Prediction for Mobile App Recommendation. ACM Transactions on Information Systems, 2017, 35, 1-33.	4.9	16
53	Network of Tensor Time Series. , 2021, , .		15
54	An Integral Tag Recommendation Model for Textual Content. Proceedings of the AAAI Conference on Artificial Intelligence, 2019, 33, 5109-5116.	4.9	13

#	ARTICLE	IF	CITATIONS
55	Predicting long-term impact of CQA posts. , 2014, , .		12
56	Enhancing Team Composition in Professional Networks: Problem Definitions and Fast Solutions. IEEE Transactions on Knowledge and Data Engineering, 2017, 29, 613-626.	5.7	12
57	Bug Localization via Supervised Topic Modeling. , 2018, , .		12
58	CooBa: Cross-project Bug Localization via Adversarial Transfer Learning. , 2020, , .		11
59	Fast Monitoring Proximity and Centrality on Time-evolving Bipartite Graphs. Statistical Analysis and Data Mining, 2008, 1, 142-156.	2.8	10
60	Visualizing Research Impact through Citation Data. ACM Transactions on Interactive Intelligent Systems, 2018, 8, 1-24.	3.7	10
61	Enhancing supervised bug localization with metadata and stack-trace. Knowledge and Information Systems, 2020, 62, 2461-2484.	3.2	10
62	A deep multimodal model for bug localization. Data Mining and Knowledge Discovery, 2021, 35, 1369-1392.	3.7	10
63	TourViz. , 2012, , .		9
64	Gateway finder in large graphs: problem definitions and fast solutions. Information Retrieval, 2012, 15, 391-411.	2.0	9
65	Multi-Aspect + Transitivity + Bias: An Integral Trust Inference Model. IEEE Transactions on Knowledge and Data Engineering, 2014, 26, 1706-1719.	5.7	9
66	Hierarchical Focus+Context Heterogeneous Network Visualization. , 2014, , .		9
67	X-Rank. , 2018, , .		8
68	Measuring Proximity on Graphs with Side Information. , 2008, , .		7
69	Joint voting prediction for questions and answers in CQA. , 2014, , .		7
70	iPath: Forecasting the Pathway to Impact. , 2016, , .		7
71	BASSET: Scalable Gateway Finder in Large Graphs. Lecture Notes in Computer Science, 2010, , 449-463.	1.3	6
72	Full diffusion history reconstruction in networks. , 2015, , .		5

#	ARTICLE	IF	CITATIONS
73	HoORaYs. , 2017, , .		5
74	N2N. , 2019, , .		5
75	Non-negative residual matrix factorization: problem definition, fast solutions, and applications. Statistical Analysis and Data Mining, 2012, 5, 3-15.	2.8	4
76	TOPIC: Toward perfect Influence Graph Summarization. , 2016, , .		4
77	On the Measurement and Prediction of Web Content Utility. SIGKDD Explorations: Newsletter of the Special Interest Group (SIG) on Knowledge Discovery & Data Mining, 2017, 19, 1-12.	4.0	4
78	Realtime Robustification of Interdependent Networks under Cascading Attacks. , 2018, , .		4
79	Dual-regularized one-class collaborative filtering with implicit feedback. World Wide Web, 2019, 22, 1099-1129.	4.0	4
80	Eiffel: Evolutionary Flow Map for Influence Graph Visualization. IEEE Transactions on Visualization and Computer Graphics, 2020, 26, 2944-2960.	4.4	3
81	Spiral of Silence and Its Application in Recommender Systems. IEEE Transactions on Knowledge and Data Engineering, 2021, , 1-1.	5.7	3
82	Decoupled Representation Learning for Attributed Networks. IEEE Transactions on Knowledge and Data Engineering, 2021, , 1-1.	5.7	3
83	Enhancing bug localization with bug report decomposition and code hierarchical network. Knowledge-Based Systems, 2022, 248, 108741.	7.1	3
84	Guest editorial: special issue on data mining technologies for computational social science. Data Mining and Knowledge Discovery, 2012, 25, 415-419.	3.7	2
85	Incremental one-class collaborative filtering with co-evolving side networks. Knowledge and Information Systems, 2021, 63, 105-124.	3.2	2
86	Pairwise trust inference by subgraph extraction. Social Network Analysis and Mining, 2013, 3, 953-968.	2.8	1
87	Network based models and path based features for gene prioritization. , 2016, , .		1
88	Network Connectivity: Concepts, Computation, and Optimization. Synthesis Lectures on Learning Networks and Algorithms, 2022, 3, 1-165.	0.7	0