Hanghang Tong

List of Publications by Year
in descending order

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	Network Connectivity: Concepts, Computation, and Optimization. Synthesis Lectures on Learning Networks and Algorithms, 2022, 3, 1-165.	0.7	0
2	Enhancing bug localization with bug report decomposition and code hierarchical network. Knowledge-Based Systems, 2022, 248, 108741.	7.1	3
3	Incremental one-class collaborative filtering with co-evolving side networks. Knowledge and Information Systems, 2021, 63, 105-124.	3.2	2
4	Spiral of Silence and Its Application in Recommender Systems. IEEE Transactions on Knowledge and Data Engineering, 2021, , 1-1.	5.7	3
5	Few-shot Network Anomaly Detection via Cross-network Meta-learning. , 2021, , .		42
6	Network of Tensor Time Series. , 2021, , .		15
7	High-Order Structure Exploration on Massive Graphs. ACM Transactions on Knowledge Discovery From Data, 2021, 15, 1-26.	3.5	22
8	A deep multimodal model for bug localization. Data Mining and Knowledge Discovery, 2021, 35, 1369-1392.	3.7	10
9	Decoupled Representation Learning for Attributed Networks. IEEE Transactions on Knowledge and Data Engineering, 2021, , 1-1.	5.7	3
10	Nonbacktracking Eigenvalues under Node Removal: X-Centrality and Targeted Immunization. SIAM Journal on Mathematics of Data Science, 2021, 3, 656-675.	1.8	18
11	Eiffel: Evolutionary Flow Map for Influence Graph Visualization. IEEE Transactions on Visualization and Computer Graphics, 2020, 26, 2944-2960.	4.4	3
12	Data-Driven Computational Social Science: A Survey. Big Data Research, 2020, 21, 100145.	4.2	39
13	Enhancing supervised bug localization with metadata and stack-trace. Knowledge and Information Systems, 2020, 62, 2461-2484.	3.2	10
14	CooBa: Cross-project Bug Localization via Adversarial Transfer Learning. , 2020, , .		11
15	Dual-regularized one-class collaborative filtering with implicit feedback. World Wide Web, 2019, 22, 1099-1129.	4.0	4
16	An Integral Tag Recommendation Model for Textual Content. Proceedings of the AAAI Conference on Artificial Intelligence, 2019, 33, 5109-5116.	4.9	13
17	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
18	Graph convolutional networks: a comprehensive review. Computational Social Networks, 2019, 6, .	2.1	614

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19	N2N. , 2019, , .		5
20	Visualizing Research Impact through Citation Data. ACM Transactions on Interactive Intelligent Systems, 2018, 8, 1-24.	3.7	10
21	Realtime Robustification of Interdependent Networks under Cascading Attacks. , 2018, , .		4
22	X-Rank. , 2018, , .		8
23	Bug Localization via Supervised Topic Modeling. , 2018, , .		12
24	Guiding supervised topic modeling for content based tag recommendation. Neurocomputing, 2018, 314, 479-489.	5.9	22
25	Graph Convolutional Networks: Algorithms, Applications and Open Challenges. Lecture Notes in Computer Science, 2018, , 79-91.	1.3	27
26	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
27	HoORaYs. , 2017, , .		5
28	FIRST. , 2017, , .		36
29	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
30	Version-Aware Rating Prediction for Mobile App Recommendation. ACM Transactions on Information Systems, 2017, 35, 1-33.	4.9	16
31	Towards Optimal Connectivity on Multi-Layered Networks. IEEE Transactions on Knowledge and Data Engineering, 2017, 29, 2332-2346.	5.7	20
32	R<sc>a</sc>P<sc>are</sc>: A Generic Strategy for Cold-Start Rating Prediction Problem. IEEE Transactions on Knowledge and Data Engineering, 2017, 29, 1296-1309.	5.7	18
33	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
34	TOPIC: Toward perfect Influence Graph Summarization. , 2016, , .		4
35	Network based models and path based features for gene prioritization. , 2016, , .		1
36	FASCINATE. , 2016, , .		50

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37	Disease gene prioritization by integrating tissue-specific molecular networks using a robust multi-network model. BMC Bioinformatics, 2016, 17, 453.	2.6	31
38	Online Travel Mode Identification Using Smartphones With Battery Saving Considerations. IEEE Transactions on Intelligent Transportation Systems, 2016, 17, 2921-2934.	8.0	54
39	Node Immunization on Large Graphs: Theory and Algorithms. IEEE Transactions on Knowledge and Data Engineering, 2016, 28, 113-126.	5.7	62
40	iPath: Forecasting the Pathway to Impact. , 2016, , .		7
41	Fast Eigen-Functions Tracking on Dynamic Graphs. , 2015, , .		26
42	Full diffusion history reconstruction in networks. , 2015, , .		5
43	Robust Multi-Network Clustering via Joint Cross-Domain Cluster Alignment. , 2015, 2015, 291-300.		19
44	Detecting high-quality posts in community question answering sites. Information Sciences, 2015, 302, 70-82.	6.9	60
45	VEGAS: Visual influEnce GrAph Summarization on Citation Networks. IEEE Transactions on Knowledge and Data Engineering, 2015, 27, 3417-3431.	5.7	39
46	Graph based anomaly detection and description: a survey. Data Mining and Knowledge Discovery, 2015, 29, 626-688.	3.7	897
47	Flexible and Robust Multi-Network Clustering. , 2015, , .		39
48	Panther. , 2015, , .		29
49	The Child is Father of the Man. , 2015, , .		19
50	Activity recognition with smartphone sensors. Tsinghua Science and Technology, 2014, 19, 235-249.	6.1	275
51	Dual-Regularized One-Class Collaborative Filtering. , 2014, , .		50
52	Predicting long-term impact of CQA posts. , 2014, , .		12
53	Inside the atoms. , 2014, , .		45
54	Joint voting prediction for questions and answers in CQA. , 2014, , .		7

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55	Multi-Aspect + Transitivity + Bias: An Integral Trust Inference Model. IEEE Transactions on Knowledge and Data Engineering, 2014, 26, 1706-1719.	5.7	9
56	Hierarchical Focus+Context Heterogeneous Network Visualization. , 2014, , .		9
57	Pairwise trust inference by subgraph extraction. Social Network Analysis and Mining, 2013, 3, 953-968.	2.8	1
58	BIG-ALIGN: Fast Bipartite Graph Alignment. , 2013, , .		107
59	MATRI. , 2013, , .		36
60	Mining Connection Pathways for Marked Nodes in Large Graphs. , 2013, , .		29
61	SympGraph. , 2012, , .		25
62	RolX. , 2012, , .		239
63	Fast and reliable anomaly detection in categorical data. , 2012, , .		76
64	TourViz. , 2012, , .		9
65	Fast Random Walk Graph Kernel. , 2012, , .		81
66	PICS: Parameter-free Identification of Cohesive Subgroups in Large Attributed Graphs. , 2012, , .		72
67	Guest editorial: special issue on data mining technologies for computational social science. Data Mining and Knowledge Discovery, 2012, 25, 415-419.	3.7	2
68	gbase: an efficient analysis platform for large graphs. VLDB Journal, 2012, 21, 637-650.	4.1	62
69	Nonâ€negative residual matrix factorization: problem definition, fast solutions, and applications. Statistical Analysis and Data Mining, 2012, 5, 3-15.	2.8	4
70	Gateway finder in large graphs: problem definitions and fast solutions. Information Retrieval, 2012, 15, 391-411.	2.0	9
71	Centralities in Large Networks: Algorithms and Observations. , 2011, , .		86
72	Non-Negative Residual Matrix Factorization with Application to Graph Anomaly Detection. , 2011, , .		83

#	Article	IF	Citations
73	GBASE. , 2011, , .		90
74	Information spreading in context. , 2011, , .		72
75	It's who you know. , 2011, , .		152
76	Metric forensics. , 2010, , .		39
77	BASSET: Scalable Gateway Finder in Large Graphs. Lecture Notes in Computer Science, 2010, , 449-463.	1.3	6
78	Random walk with restart: fast solutions and applications. Knowledge and Information Systems, 2008, 14, 327-346.	3.2	307
79	Fast Monitoring Proximity and Centrality on Time-evolving Bipartite Graphs. Statistical Analysis and Data Mining, 2008, 1, 142-156.	2.8	10
80	Using ghost edges for classification in sparsely labeled networks. , 2008, , .		106
81	Colibri. , 2008, , .		74
82	Measuring Proximity on Graphs with Side Information. , 2008, , .		7
83	Fast direction-aware proximity for graph mining. , 2007, , .		65
84	Fast best-effort pattern matching in large attributed graphs. , 2007, , .		188
85	Fast Random Walk with Restart and Its Applications. IEEE International Conference on Data Mining, 2006, , .	0.0	723
86	Generalized Manifold-Ranking-Based Image Retrieval. IEEE Transactions on Image Processing, 2006, 15, 3170-3177.	9.8	101
87	Center-piece subgraphs. , 2006, , .		207
88	Manifold-ranking based image retrieval. , 2004, , .		274