Xiaokui Xiao

List of Publications by Year
in descending order

156 papers	8,535 citations	230014 27 h-index	182931 54 g-index
157 all docs	157 docs citations	157 times ranked	4601 citing authors

#	Article	IF	Citations
1	LF-GDPR: A Framework for Estimating Graph Metrics With Local Differential Privacy. IEEE Transactions on Knowledge and Data Engineering, 2022, 34, 4905-4920.	4.0	23
2	No PANE, No Gain. SIGMOD Record, 2022, 51, 42-49.	0.7	2
3	Scalable and Effective Bipartite Network Embedding. , 2022, , .		4
4	Improving the utility of locally differentially private protocols for longitudinal and multidimensional frequency estimates. Digital Communications and Networks, 2022, , .	2.7	7
5	Privacy-Preserving Stochastic Gradual Learning. IEEE Transactions on Knowledge and Data Engineering, 2021, 33, 3129-3140.	4.0	3
6	Finding group Steiner trees in graphs with both vertex and edge weights. Proceedings of the VLDB Endowment, 2021, 14, 1137-1149.	2.1	9
7	Effective and Scalable Clustering on Massive Attributed Graphs. , 2021, , .		3
8	Feature Inference Attack on Model Predictions in Vertical Federated Learning. , 2021, , .		57
9	Unconstrained submodular maximization with modular costs. Proceedings of the VLDB Endowment, 2021, 14, 1756-1768.	2.1	8
10	CGM. Proceedings of the VLDB Endowment, 2021, 14, 2258-2270.	2.1	14
11	Data synthesis via differentially private markov random fields. Proceedings of the VLDB Endowment, 2021, 14, 2190-2202.	2.1	17
12	Fast Approximate All Pairwise CoSimRanks via Random Projection. Lecture Notes in Computer Science, 2021, , 438-452.	1.0	0
13	Random Sampling Plus Fake Data. , 2021, , .		9
14	GraphMP: I/O-Efficient Big Graph Analytics on a Single Commodity Machine. IEEE Transactions on Big Data, 2020, 6, 816-829.	4.4	4
15	BATON: Batch One-Hop Personalized PageRanks with Efficiency and Accuracy. IEEE Transactions on Knowledge and Data Engineering, 2020, 32, 1897-1908.	4.0	5
16	ROAM: A Fundamental Routing Query on Road Networks with Efficiency. IEEE Transactions on Knowledge and Data Engineering, 2020, 32, 1595-1609.	4.0	0
17	Best Bang for the Buck: Cost-Effective Seed Selection for Online Social Networks. IEEE Transactions on Knowledge and Data Engineering, 2020, 32, 2297-2309.	4.0	6
18	Towards Locally Differentially Private Generic Graph Metric Estimation. , 2020, , .		21

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19	I/O-Efficient Algorithms for Degeneracy Computation on Massive Networks. IEEE Transactions on Knowledge and Data Engineering, 2020, , 1-1.	4.0	1
20	Mobility modeling through mobile data: generating an optimized and open dataset respecting privacy. , 2020, , .		3
21	Efficient Approximation Algorithms for Adaptive Target Profit Maximization. , 2020, , .		13
22	Forecasting the number of firefighter interventions per region with local-differential-privacy-based data. Computers and Security, 2020, 96, 101888.	4.0	18
23	Finding skyline communities in multi-valued networks. VLDB Journal, 2020, 29, 1407-1432.	2.7	6
24	Leveraging Machine Learning Techniques and Engineering of Multi-Nature Features for National Daily Regional Ambulance Demand Prediction. International Journal of Environmental Research and Public Health, 2020, 17, 4179.	1.2	28
25	Efficient approximation algorithms for adaptive influence maximization. VLDB Journal, 2020, 29, 1385-1406.	2.7	27
26	FERRARI: an efficient framework for visual exploratory subgraph search in graph databases. VLDB Journal, 2020, 29, 973-998.	2.7	5
27	The Disruptions of 5G on Data-Driven Technologies and Applications. IEEE Transactions on Knowledge and Data Engineering, 2020, 32, 1179-1198.	4.0	44
28	LATTE: Visual Construction of Smart Contracts. , 2020, , .		7
29	GPU-Accelerated Subgraph Enumeration on Partitioned Graphs. , 2020, , .		29
30	Analysis of Indexing Structures for Immutable Data. , 2020, , .		18
31	Homogeneous network embedding for massive graphs via reweighted personalized PageRank. Proceedings of the VLDB Endowment, 2020, 13, 670-683.	2.1	39
32	Privacy preserving vertical federated learning for tree-based models. Proceedings of the VLDB Endowment, 2020, 13, 2090-2103.	2.1	73
33	Scaling attributed network embedding to massive graphs. Proceedings of the VLDB Endowment, 2020, 14, 37-49.	2.1	19
34	Hunting multiple bumps in graphs. Proceedings of the VLDB Endowment, 2020, 13, 656-669.	2.1	2
35	Realtime index-free single source SimRank processing on web-scale graphs. Proceedings of the VLDB Endowment, 2020, 13, 966-980.	2.1	14
36	Collecting and Analyzing Multidimensional Data with Local Differential Privacy. , 2019, , .		156

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37	Community Detection on Large Complex Attribute Network. , 2019, , .		39
38	Efficient Approximation Algorithms for Adaptive Seed Minimization. , 2019, , .		22
39	An Indexing Framework for Efficient Visual Exploratory Subgraph Search in Graph Databases. , 2019, , .		1
40	Efficient Estimation of Heat Kernel PageRank for Local Clustering. , 2019, , .		12
41	Efficient Batch One-Hop Personalized PageRanks. , 2019, , .		5
42	PRSim. , 2019, , .		31
43	Signed Clique Search in Signed Networks: Concepts and Algorithms. IEEE Transactions on Knowledge and Data Engineering, 2019, , 1-1.	4.0	3
44	Efficient Algorithms for Approximate Single-Source Personalized PageRank Queries. ACM Transactions on Database Systems, 2019, 44, 1-37.	1.5	28
45	Analyzing Subgraph Statistics from Extended Local Views with Decentralized Differential Privacy. , 2019, , .		47
46	Millionaire: a hint-guided approach for crowdsourcing. Machine Learning, 2019, 108, 831-858.	3.4	1
47	Organizing an Influential Social Event Under a Budget Constraint. IEEE Transactions on Knowledge and Data Engineering, 2019, 31, 2379-2392.	4.0	2
48	Efficient and effective algorithms for clustering uncertain graphs. Proceedings of the VLDB Endowment, 2019, 12, 667-680.	2.1	23
49	Realtime top-k personalized pagerank over large graphs on GPUs. Proceedings of the VLDB Endowment, 2019, 13, 15-28.	2.1	19
50	Path Travel Time Estimation using Attribute-related Hybrid Trajectories Network. , 2019, , .		8
51	Persisting RB-Tree into NVM in a Consistency Perspective. ACM Transactions on Storage, 2018, 14, 1-27.	1.4	10
52	Privacy Enhanced Matrix Factorization for Recommendation with Local Differential Privacy. IEEE Transactions on Knowledge and Data Engineering, 2018, 30, 1770-1782.	4.0	139
53	Influence Maximization in Online Social Networks. , 2018, , .		34
54	Optimal algorithms for selecting top-k combinations of attributes: theory and applications. VLDB Journal, 2018, 27, 27-52.	2.7	7

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55	Efficient Signed Clique Search in Signed Networks. , 2018, , .		23
56	A Scalable Approach to Inferring Travel Time in Singapore's Metro Network using Smart Card Data. , 2018, , .		2
57	PrivTrie: Effective Frequent Term Discovery under Local Differential Privacy. , 2018, , .		44
58	Budget-Constrained Organization of Influential Social Events. , 2018, , .		7
59	Price-and-Time-Aware Dynamic Ridesharing. , 2018, , .		39
60	Maximizing Social Influence for the Awareness Threshold Model. Lecture Notes in Computer Science, 2018, , 491-510.	1.0	7
61	Online Processing Algorithms for Influence Maximization. , 2018, , .		92
62	Skyline Community Search in Multi-valued Networks. , 2018, , .		62
63	TopPPR. , 2018, , .		53
64	Efficient algorithms for adaptive influence maximization. Proceedings of the VLDB Endowment, 2018, 11, 1029-1040.	2.1	42
65	PTrider. Proceedings of the VLDB Endowment, 2018, 11, 1938-1941.	2.1	14
66	Disease Gene Classification with Metagraph Representations. Methods in Molecular Biology, 2018, 1807, 211-224.	0.4	6
67	DANTE. SIGMOD Record, 2018, 47, 67-72.	0.7	0
68	Network Motif Discovery: A GPU Approach. IEEE Transactions on Knowledge and Data Engineering, 2017, 29, 513-528.	4.0	39
69	PrivSuper: A Superset-First Approach to Frequent Itemset Mining under Differential Privacy. , 2017, , .		26
70	PrivBayes. ACM Transactions on Database Systems, 2017, 42, 1-41.	1.5	197
71	Revisiting the stop-and-stare algorithms for influence maximization. Proceedings of the VLDB Endowment, 2017, 10, 913-924.	2.1	86
72	FORA. , 2017, , .		70

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73	Generating Synthetic Decentralized Social Graphs with Local Differential Privacy. , 2017, , .		103
74	Efficient nonparametric and asymptotic Bayesian model selection methods for attributed graph clustering. Knowledge and Information Systems, 2017, 53, 239-268.	2.1	8
75	Disease gene classification with metagraph representations. Methods, 2017, 131, 83-92.	1.9	18
76	GraphH: High Performance Big Graph Analytics in Small Clusters. , 2017, , .		4
77	GraphMP: An Efficient Semi-External-Memory Big Graph Processing System on a Single Machine. , 2017, , .		8
78	Probesim. Proceedings of the VLDB Endowment, 2017, 11, 14-26.	2.1	27
79	Effective indexing for approximate constrained shortest path queries on large road networks. Proceedings of the VLDB Endowment, 2016, 10, 61-72.	2.1	46
80	SLING. , 2016, , .		43
81	PrivTree. , 2016, , .		105
82	Keyword-aware continuous kNN query on road networks. , 2016, , .		49
83	Practical private shortest path computation based on Oblivious Storage. , 2016, , .		17
84	Heavy Hitter Estimation over Set-Valued Data with Local Differential Privacy. , 2016, , .		184
85	HubPPR. Proceedings of the VLDB Endowment, 2016, 10, 205-216.	2.1	50
86	Mobile App Tagging. , 2016, , .		19
87	Recursive Neural Conditional Random Fields for Aspect-based Sentiment Analysis. , 2016, , .		271
88	Deterministic identification of specific individuals from GWAS results. Bioinformatics, 2015, 31, 1701-1707.	1.8	27
89	Towards maximum independent sets on massive graphs. Proceedings of the VLDB Endowment, 2015, 8, 2122-2133.	2.1	26
90	Influence Maximization in Near-Linear Time. , 2015, , .		483

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91	SimApp. , 2015, , .		53
92	Efficient Route Planning on Public Transportation Networks. , 2015, , .		85
93	Private Release of Graph Statistics using Ladder Functions. , 2015, , .		68
94	Optimizing Batch Linear Queries under Exact and Approximate Differential Privacy. ACM Transactions on Database Systems, 2015, 40, 1-47.	1.5	19
95	Crowd-Based Deduplication. , 2015, , .		49
96	Network motif discovery: A GPU approach. , 2015, , .		14
97	Boosting the Quality of Approximate String Matching by Synonyms. ACM Transactions on Database Systems, 2015, 40, 1-42.	1.5	6
98	Influence maximization. , 2014, , .		499
99	Reachability queries on large dynamic graphs. , 2014, , .		63
100	AR-miner: mining informative reviews for developers from mobile app marketplace. , 2014, , .		348
101	PrivBayes. , 2014, , .		140
102	Dynamic monitoring of optimal locations in road network databases. VLDB Journal, 2014, 23, 697-720.	2.7	21
103	Software process evaluation: a machine learning framework with application to defect managementÂprocess. Empirical Software Engineering, 2014, 19, 1531-1564.	3.0	17
104	Large-scale frequent subgraph mining in MapReduce. , 2014, , .		56
105	Differentially private event sequences over infinite streams. Proceedings of the VLDB Endowment, 2014, 7, 1155-1166.	2.1	155
106	Differentially Private Data Release: Improving Utility with Wavelets and Bayesian Networks. Lecture Notes in Computer Science, 2014, , 25-35.	1.0	4
107	Minimal MapReduce algorithms. , 2013, , .		43
108	Differentially private histogram publication. VLDB Journal, 2013, 22, 797-822.	2.7	152

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109	Secure nearest neighbor revisited. , 2013, , .		46
110	KORS: Keyword-aware Optimal Route Search System. , 2013, , .		5
111	LSII: An indexing structure for exact real-time search on microblogs. , 2013, , .		9
112	Shortest path and distance queries on road networks. , 2013, , .		91
113	Efficient single-source shortest path and distance queries on large graphs. , 2013, , .		31
114	PrivGene. , 2013, , .		55
115	Shortest path and distance queries on road networks. Proceedings of the VLDB Endowment, 2012, 5, 406-417.	2.1	111
116	Functional mechanism. Proceedings of the VLDB Endowment, 2012, 5, 1364-1375.	2.1	222
117	Efficient algorithms for generalized subgraph query processing. , 2012, , .		9
118	Differential privacy in data publication and analysis. , 2012, , .		50
119	Low-rank mechanism. Proceedings of the VLDB Endowment, 2012, 5, 1352-1363.	2.1	56
120	Keyword-aware optimal route search. Proceedings of the VLDB Endowment, 2012, 5, 1136-1147.	2.1	86
121	An efficient algorithm for mapping vehicle trajectories onto road networks. , 2012, , .		14
122	Differentially Private Histogram Publication. , 2012, , .		80
123	Obfuscating the Topical Intention in Enterprise Text Search. , 2012, , .		17
124	Publishing Search Logsâ€"A Comparative Study of Privacy Guarantees. IEEE Transactions on Knowledge and Data Engineering, 2012, 24, 520-532.	4.0	72
125	Software process evaluation: A machine learning approach. , 2011, , .		17
126	GBLENDER. , 2011, , .		8

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127	Optimal location queries in road network databases. , 2011, , .		77
128	Differential Privacy via Wavelet Transforms. IEEE Transactions on Knowledge and Data Engineering, 2011, 23, 1200-1214.	4.0	268
129	iReduct. , 2011, , .		93
130	Embellishing text search queries to protect user privacy. Proceedings of the VLDB Endowment, 2010, 3, 598-607.	2.1	33
131	Differential privacy via wavelet transforms. , 2010, , .		115
132	Transparent anonymization. ACM Transactions on Database Systems, 2010, 35, 1-48.	1.5	28
133	GBLENDER. , 2010, , .		30
134	Superseding Nearest Neighbor Search on Uncertain Spatial Databases. IEEE Transactions on Knowledge and Data Engineering, 2010, 22, 1041-1055.	4.0	33
135	Correlation hiding by independence masking. , 2010, , .		9
136	The hardness and approximation algorithms for l-diversity. , 2010, , .		39
137	Privacy Preserving Publishing on Multiple Quasi-identifiers. Proceedings - International Conference on Data Engineering, 2009, , .	0.0	9
138	Interactive anonymization of sensitive data. , 2009, , .		26
139	ANGEL: Enhancing the Utility of Generalization for Privacy Preserving Publication. IEEE Transactions on Knowledge and Data Engineering, 2009, 21, 1073-1087.	4.0	59
140	Optimal random perturbation at multiple privacy levels. Proceedings of the VLDB Endowment, 2009, 2, 814-825.	2.1	41
141	Privacy Preservation in Database Applications: A Survey. Jisuanji Xuebao/Chinese Journal of Computers, 2009, 32, 847-861.	0.3	49
142	Primal or dual: which promises faster spatiotemporal search?. VLDB Journal, 2008, 17, 1253-1270.	2.7	10
143	Efficient temporal counting with bounded error. VLDB Journal, 2008, 17, 1271-1292.	2.7	4
144	On Anti-Corruption Privacy Preserving Publication. , 2008, , .		36

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145	Output perturbation with query relaxation. Proceedings of the VLDB Endowment, 2008, 1, 857-869.	2.1	29
146	Preservation of proximity privacy in publishing numerical sensitive data. , 2008, , .		79
147	Dynamic anonymization. , 2008, , .		25
148	Personalized Privacy Preservation. The Kluwer International Series on Advances in Database Systems, 2008, , 461-485.	1.1	26
149	Range search on multidimensional uncertain data. ACM Transactions on Database Systems, 2007, 32, 15.	1.5	136
150	Efficient Skyline and Top-k Retrieval in Subspaces. IEEE Transactions on Knowledge and Data Engineering, 2007, 19, 1072-1088.	4.0	97
151	M-invariance. , 2007, , .		344
152	Multidimensional reverse kNN search. VLDB Journal, 2007, 16, 293-316.	2.7	70
153	Mining distance-based outliers from large databases in any metric space. , 2006, , .		57
154	Personalized privacy preservation. , 2006, , .		460
155	SUBSKY: Efficient Computation of Skylines in Subspaces. , 2006, , .		57
156	Differentially private multivariate time series forecasting of aggregated human mobility with deep learning: Input or gradient perturbation?. Neural Computing and Applications, 0, , .	3.2	2