Xiang Lian

List of Publications by Year
in descending order

88 papers	2,051 citations	430442 18 h-index	395343 33 g-index
91 all docs	91 docs citations	91 times ranked	1168 citing authors

#	ARTICLE	IF	CITATIONS
1	Monochromatic and bichromatic reverse skyline search over uncertain databases. , 2008, , .		151
2	Task Assignment on Multi-Skill Oriented Spatial Crowdsourcing. IEEE Transactions on Knowledge and Data Engineering, 2016, 28, 2201-2215.	4.0	143
3	Reliable diversity-based spatial crowdsourcing by moving workers. Proceedings of the VLDB Endowment, 2015, 8, 1022-1033.	2.1	127
4	kReverse NN Search in Arbitrary Dimensionality. , 2004, , 744-755.		110
5	Prediction-Based Task Assignment in Spatial Crowdsourcing. , 2017, , .		80
6	Efficient processing of probabilistic reverse nearest neighbor queries over uncertain data. VLDB Journal, 2009, 18, 787-808.	2.7	76
7	Multidimensional reverse kNN search. VLDB Journal, 2007, 16, 293-316.	2.7	70
8	Probabilistic ranked queries in uncertain databases. , 2008, , .		67
9	Top-k dominating queries in uncertain databases. , 2009, , .		62
10	Probabilistic Group Nearest Neighbor Queries in Uncertain Databases. IEEE Transactions on Knowledge and Data Engineering, 2008, 20, 809-824.	4.0	60
11	Efficient Graph Similarity Search Over Large Graph Databases. IEEE Transactions on Knowledge and Data Engineering, 2015, 27, 964-978.	4.0	57
12	Continuous monitoring of skylines over uncertain data streams. Information Sciences, 2012, 184, 196-214.	4.0	53
13	Dynamic skyline queries in metric spaces. , 2008, , .		52
14	Reverse skyline search in uncertain databases. ACM Transactions on Database Systems, 2010, 35, 1-49.	1.5	47
15	How to Build Templates for RDF Question/Answering. , 2015, , .		39
16	Probabilistic top-k dominating queries in uncertain databases. Information Sciences, 2013, 226, 23-46.	4.0	38
17	Efficient query answering in probabilistic RDF graphs. , 2011, , .		32
18	Graph similarity search with edit distance constraint in large graph databases. , 2013, , .		30

#	Article	IF	Citations
19	Probabilistic Maximum Range-Sum Queries on Spatial Database. , 2019, , .		30
20	kReverse NN Search in Arbitrary Dimensionality. , 2004, , 744-755.		30
21	Efficient Processing of Metric Skyline Queries. IEEE Transactions on Knowledge and Data Engineering, 2009, 21, 351-365.	4.0	29
22	Similarity Match Over High Speed Time-Series Streams. , 2007, , .		28
23	RSkNN: kNN Search on Road Networks by Incorporating Social Influence. IEEE Transactions on Knowledge and Data Engineering, 2016, 28, 1575-1588.	4.0	27
24	Efficient Similarity Search over Future Stream Time Series. IEEE Transactions on Knowledge and Data Engineering, 2008, 20, 40-54.	4.0	24
25	Consistent query answers in inconsistent probabilistic databases. , 2010, , .		24
26	Similarity Join Processing on Uncertain Data Streams. IEEE Transactions on Knowledge and Data Engineering, 2011, 23, 1718-1734.	4.0	24
27	Development of foundation models for Internet of Things. Frontiers of Computer Science, 2010, 4, 376-385.	0.6	23
28	Probabilistic Inverse Ranking Queries over Uncertain Data. Lecture Notes in Computer Science, 2009, , 35-50.	1.0	21
29	Multiscale Representations for Fast Pattern Matching in Stream Time Series. IEEE Transactions on Knowledge and Data Engineering, 2009, 21, 568-581.	4.0	20
30	Subgraph Matching with Set Similarity in a Large Graph Database. IEEE Transactions on Knowledge and Data Engineering, 2015, 27, 2507-2521.	4.0	20
31	Keyword Search over Distributed Graphs with Compressed Signature. IEEE Transactions on Knowledge and Data Engineering, 2017, 29, 1212-1225.	4.0	20
32	Matching heterogeneous event data. , 2014, , .		19
33	Efficient Similarity Search in Nonmetric Spaces with Local Constant Embedding. IEEE Transactions on Knowledge and Data Engineering, 2008, 20, 321-336.	4.0	18
34	Similarity Search in Arbitrary Subspaces Under L<inf>p</inf>-Norm. , 2008, , .		18
35	Efficient SimRank Tracking in Dynamic Graphs. , 2018, , .		18
36	Pattern Matching over Cloaked Time Series. , 2008, , .		17

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37	Efficient processing of probabilistic group subspace skyline queries in uncertain databases. Information Systems, 2013, 38, 265-285.	2.4	17
38	Keyword Search Over Probabilistic RDF Graphs. IEEE Transactions on Knowledge and Data Engineering, 2015, 27, 1246-1260.	4.0	17
39	Set similarity join on probabilistic data. Proceedings of the VLDB Endowment, 2010, 3, 650-659.	2.1	16
40	Probabilistic inverse ranking queries in uncertain databases. VLDB Journal, 2011, 20, 107-127.	2.7	16
41	Shooting top-k stars in uncertain databases. VLDB Journal, 2011, 20, 819-840.	2.7	16
42	Cohesive Group Nearest Neighbor Queries Over Road-Social Networks. , 2019, , .		15
43	Efficient Subgraph Skyline Search Over Large Graphs. , 2014, , .		12
44	Second-order random walk-based proximity measures in graph analysis: formulations and algorithms. VLDB Journal, 2018, 27, 127-152.	2.7	12
45	FROG: A Fast and Reliable Crowdsourcing Framework. IEEE Transactions on Knowledge and Data Engineering, 2019, 31, 894-908.	4.0	12
46	A generic framework for handling uncertain data with local correlations. Proceedings of the VLDB Endowment, 2010, 4, 12-21.	2.1	11
47	Skyline queries over incomplete data streams. VLDB Journal, 2019, 28, 961-985.	2.7	11
48	Random Sampling for Continuous Streams with Arbitrary Updates. IEEE Transactions on Knowledge and Data Engineering, 2007, 19, 96-110.	4.0	10
49	General Cost Models for Evaluating Dimensionality Reduction in High-Dimensional Spaces. IEEE Transactions on Knowledge and Data Engineering, 2009, 21, 1447-1460.	4.0	10
50	SQBC: An efficient subgraph matching method over large and dense graphs. Information Sciences, 2014, 261, 116-131.	4.0	10
51	Causality and responsibility. , 2013, , .		9
52	Weight-Constrained Route Planning Over Time-Dependent Graphs. , 2019, , .		9
53	Efficient join processing on uncertain data streams. , 2009, , .		8
54	k-nearest keyword search in RDF graphs. Web Semantics, 2013, 22, 40-56.	2.2	8

#	Article	IF	Citations
55	Online Subgraph Skyline Analysis over Knowledge Graphs. IEEE Transactions on Knowledge and Data Engineering, 2016, 28, 1805-1819.	4.0	8
56	Effective and efficient top-k query processing over incomplete data streams. Information Sciences, 2021, 544, 343-371.	4.0	8
57	Matching Heterogeneous Event Data. IEEE Transactions on Knowledge and Data Engineering, 2018, , 1-1.	4.0	7
58	On Efficiently Detecting Overlapping Communities over Distributed Dynamic Graphs. , 2018, , .		7
59	Ranked Query Processing in Uncertain Databases. IEEE Transactions on Knowledge and Data Engineering, 2010, 22, 420-436.	4.0	6
60	Quality-Aware Subgraph Matching Over Inconsistent Probabilistic Graph Databases. IEEE Transactions on Knowledge and Data Engineering, 2016, 28, 1560-1574.	4.0	6
61	An Efficient Probabilistic Approach for Graph Similarity Search. , 2018, , .		6
62	Efficient Processing of Group Planning Queries Over Spatial-Social Networks. IEEE Transactions on Knowledge and Data Engineering, 2022, 34, 2135-2147.	4.0	6
63	Efficient Similarity Join over Multiple Stream Time Series. IEEE Transactions on Knowledge and Data Engineering, 2009, 21, 1544-1558.	4.0	5
64	Query Processing over Uncertain Databases. Synthesis Lectures on Data Management, 2012, 4, 1-101.	0.6	5
65	Trip Planner Over Probabilistic Time-Dependent Road Networks. IEEE Transactions on Knowledge and Data Engineering, 2014, 26, 2058-2071.	4.0	5
66	GCache: Neighborhood-Guided Graph Caching in a Distributed Environment. IEEE Transactions on Parallel and Distributed Systems, 2019, 30, 2463-2477.	4.0	5
67	Efficient Path Routing Over Road Networks in the Presence of Ad-Hoc Obstacles. Information Systems, 2020, 88, 101453.	2.4	5
68	Maximizing the Utility in Location-Based Mobile Advertising. IEEE Transactions on Knowledge and Data Engineering, 2022, 34, 776-788.	4.0	5
69	A Comparative Study of Consistent Snapshot Algorithms for Main-Memory Database Systems. IEEE Transactions on Knowledge and Data Engineering, 2021, 33, 316-330.	4.0	5
70	Approximate Similarity Search over Multiple Stream Time Series. Lecture Notes in Computer Science, 2007, , 962-968.	1.0	5
71	Finding the least influenced set in uncertain databases. Information Systems, 2011, 36, 359-385.	2.4	4
72	Probabilistic Time-Constrained Paths Search over Uncertain Road Networks. IEEE Transactions on Services Computing, 2018, 11, 399-414.	3.2	4

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73	A General Cost Model for Dimensionality Reduction in High Dimensional Spaces. , 2007, , .		3
74	A Concise Representation of Range Queries. Proceedings - International Conference on Data Engineering, 2009, , .	0.0	3
75	Cohesive Group Nearest Neighbor Queries on Road-Social Networks under Multi-Criteria. IEEE Transactions on Knowledge and Data Engineering, 2020, , 1-1.	4.0	3
76	Fast and Accurate SimRank Computation via Forward Local Push and its Parallelization. IEEE Transactions on Knowledge and Data Engineering, 2021, 33, 3686-3700.	4.0	3
77	The World in a Nutshell: Concise Range Queries. IEEE Transactions on Knowledge and Data Engineering, 2011, 23, 139-154.	4.0	2
78	Subspace Similarity Search under {m L}_p-Norm. IEEE Transactions on Knowledge and Data Engineering, 2012, 24, 365-382.	4.0	2
79	UTPB: A Benchmark for Scientific Workflow Provenance Storage and Querying Systems. , 2012, , .		2
80	Maximizing the Utility in Location-Based Mobile Advertising. , 2019, , .		2
81	Top-k Community Similarity Search Over Large Road-Network Graphs. , 2021, , .		2
82	Online Topic-Aware Entity Resolution Over Incomplete Data Streams. , 2021, , .		1
83	Efficient Methods on Predictions for Similarity Search over Stream Time Series. , 0, , .		0
84	Managing uncertain spatio-temporal data. , 2011, , .		0
85	Cost-efficient repair in inconsistent probabilistic databases. , 2011, , .		0
86	Efficient Ad-Hoc Graph Inference and Matching in Biological Databases. , 2017, , .		0
87	A Secure and Smart Framework for Monitoring Infants' Safety. , 2017, , .		0
88	Uncertain Data Streams. , 2018, , 4302-4307.		0