Hua Lu

List of Publications by Year
in descending order

111 papers	2,462 citations	331670 21 h-index	434195 31 g-index
113 all docs	113 docs citations	113 times ranked	1456 citing authors

#	Article	IF	Citations
1	Continuous social distance monitoring in indoor space. Proceedings of the VLDB Endowment, 2022, 15, 1390-1402.	3.8	3
2	Spatial Data Quality in the IoT Era: Management and Exploitation. , 2022, , .		3
3	Impact of COVID-19 on IoT Adoption in Healthcare, Smart Homes, Smart Buildings, Smart Cities, Transportation and Industrial IoT. Sensors, 2021, 21, 3838.	3.8	115
4	Time-Constrained Indoor Keyword-aware Routing. , 2021, , .		3
5	NALMO: A Natural Language Interface for Moving Objects Databases. , 2021, , .		0
6	Efficiently Processing Spatial and Keyword Queries in Indoor Venues. IEEE Transactions on Knowledge and Data Engineering, 2021, 33, 3229-3244.	5.7	4
7	Towards crowd-aware indoor path planning. Proceedings of the VLDB Endowment, 2021, 14, 1365-1377.	3.8	13
8	HisRect: Features from Historical Visits and Recent Tweet for Co-Location Judgement. IEEE Transactions on Knowledge and Data Engineering, 2020, , 1-1.	5.7	2
9	Indoor Mobility Semantics Annotation Using Coupled Conditional Markov Networks. , 2020, , .		3
10	HisRect: Features from Historical Visits and Recent Tweet for Co-Location Judgement. , 2020, , .		0
11	Indoor Top-k Keyword-aware Routing Query. , 2020, , .		15
12	Shortest Path Queries for Indoor Venues with Temporal Variations. , 2020, , .		10
13	IMO. Proceedings of the VLDB Endowment, 2020, 13, 2825-2828.	3.8	7
14	Toward Translating Raw Indoor Positioning Data into Mobility Semantics. ACM/IMS Transactions on Data Science, 2020, 1, 1-37.	2.0	12
15	Location Inference for Non-Geotagged Tweets in User Timelines. IEEE Transactions on Knowledge and Data Engineering, 2019, 31, 1150-1165.	5.7	26
16	Efficient matching of offers and requests in social-aware ridesharing. GeoInformatica, 2019, 23, 559-589.	2.7	5
17	Learned Index for Spatial Queries. , 2019, , .		39
18	In Search of Indoor Dense Regions: An Approach Using Indoor Positioning Data. , 2019, , .		1

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19	Understanding human mobility. , 2019, , .		2
20	Location Inference for Non-Geotagged Tweets in User Timelines [Extended Abstract]. , 2019, , .		2
21	Finding Most Popular Indoor Semantic Locations Using Uncertain Mobility Data. , 2019, , .		1
22	An overlapping Voronoi diagram-based system for multi-criteria optimal location queries. GeoInformatica, 2019, 23, 105-161.	2.7	0
23	An MBR-Oriented Approach for Efficient Skyline Query Processing. , 2019, , .		7
24	On Location Privacy in Fingerprinting-based Indoor Positioning System. , 2019, , .		1
25	Data Verification in Integrated RFID Systems. IEEE Systems Journal, 2019, 13, 1969-1980.	4.6	1
26	Finding Most Popular Indoor Semantic Locations Using Uncertain Mobility Data. IEEE Transactions on Knowledge and Data Engineering, 2019, 31, 2108-2123.	5.7	20
27	In Search of Indoor Dense Regions: An Approach Using Indoor Positioning Data. IEEE Transactions on Knowledge and Data Engineering, 2018, 30, 1481-1495.	5.7	30
28	Range Queries on Multi-Attribute Trajectories. IEEE Transactions on Knowledge and Data Engineering, 2018, 30, 1206-1211.	5.7	16
29	Efficient Matching of Offers and Requests in Social-Aware Ridesharing. , 2018, , .		7
30	Querying spatial data by dominators in neighborhood. Information Systems, 2018, 77, 71-85.	3.6	3
31	Finding dense locations in symbolic indoor tracking data: modeling, indexing, and processing. GeoInformatica, 2017, 21, 119-150.	2.7	9
32	Top-k Taxi Recommendation in Realtime Social-Aware Ridesharing Services. Lecture Notes in Computer Science, 2017, , 221-241.	1.3	16
33	Efficiently answer top-k queries on typed intervals. Information Systems, 2017, 71, 164-181.	3.6	2
34	Finding Influential Local Users with Similar Interest from Geo-Tagged Social Media Data. , 2017, , .		3
35	GVoS. ACM Transactions on Information Systems, 2017, 36, 1-36.	4.9	3
36	Crowdsourcing Based Evaluation of Ranking Approaches for Spatial Keyword Querying. , 2017, , .		1

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37	Cleansing indoor RFID tracking data. SIGSPATIAL Special, 2017, 9, 11-18.	2.7	2
38	Risk detection and prediction from indoor tracking data. SIGSPATIAL Special, 2017, 9, 11-18.	2.7	0
39	Outdoor-indoor space. , 2016, , .		5
40	Online Risk Prediction for Indoor Moving Objects. , 2016, , .		5
41	Learning-Based Cleansing for Indoor RFID Data. , 2016, , .		25
42	VIP-Tree. Proceedings of the VLDB Endowment, 2016, 10, 325-336.	3.8	26
43	Indoor data management. , 2016, , .		3
44	Cleansing indoor RFID data using regular expressions. , 2016, , .		2
45	E^2C^2. , 2015, , .		0
46	A framework for multi-criteria optimal location selection. , 2015, , .		1
47	Distance-Aware Join for Indoor Moving Objects. IEEE Transactions on Knowledge and Data Engineering, 2015, 27, 428-442.	5.7	33
48	City-Scale Social Event Detection and Evaluation with Taxi Traces. ACM Transactions on Intelligent Systems and Technology, 2015, 6, 1-20.	4.5	31
49	Planning unobstructed paths in traffic-aware spatial networks. GeoInformatica, 2015, 19, 723-746.	2.7	43
50	Finding top-k local users in geo-tagged social media data. , 2015, , .		38
51	Scalable Evaluation of Trajectory Queries over Imprecise Location Data. IEEE Transactions on Knowledge and Data Engineering, 2014, 26, 2029-2044.	5.7	13
52	Handling False Negatives in Indoor RFID Data. , 2014, , .		17
53	Finding Dense Locations in Indoor Tracking Data. , 2014, , .		13
54	Managing Evolving Uncertainty in Trajectory Databases. IEEE Transactions on Knowledge and Data Engineering, 2014, 26, 1692-1705.	5.7	24

#	ARTICLE	IF	CITATIONS
55	Constructing indoor navigation systems from digital building information. , 2014, , .		14
56	A Journey from IFC Files to Indoor Navigation. Lecture Notes in Computer Science, 2014, , 148-165.	1.3	10
57	A Skylining Approach to Optimize Influence and Cost in Location Selection. Lecture Notes in Computer Science, 2014, , 61-76.	1.3	3
58	Hybrid Indoor Positioning with Wi-Fi and Bluetooth: Architecture and Performance. , 2013, , .		55
59	A unified model for stable and temporal topic detection from social media data. , 2013, , .		23
60	A Data Warehouse Solution for Analyzing RFID-Based Baggage Tracking Data. , 2013, , .		13
61	C-Cube: Elastic continuous clustering in the cloud. , 2013, , .		5
62	Efficient distance-aware query evaluation on indoor moving objects. , 2013, , .		37
63	Efficient and scalable continuous skyline monitoring in two-tier streaming settings. Information Systems, 2013, 38, 68-81.	3.6	23
64	Identifying Typical Movements among Indoor Objects -- Concepts and Empirical Study. , 2013, , .		7
65	A graph model for false negative handling in indoor RFID tracking data. , 2013, , .		6
66	An RFID and particle filter-based indoor spatial query evaluation system. , 2013, , .		29
67	Capturing hotspots for constrained indoor movement. , 2013, , .		7
68	A generic framework for cyber-physical web. , 2013, , .		1
69	KSQ: Top-k Similarity Query on Uncertain Trajectories. IEEE Transactions on Knowledge and Data Engineering, 2013, 25, 2049-2062.	5.7	24
70	Spatiotemporal Data Cleansing for Indoor RFID Tracking Data. , 2013, , .		20
71	Modeling of Traffic-Aware Travel Time in Spatial Networks. , 2013, , .		24
72	Daisy. SIGMOD Record, 2013, 41, 39-44.	1.2	0

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73	Reasoning about RFID-tracked moving objects in symbolic indoor spaces. , 2013, , .		7
74	Finding Traffic-Aware Fastest Paths in Spatial Networks. Lecture Notes in Computer Science, 2013, , 128-145.	1.3	23
75	UniModeling: A Tool for the Unified Modeling and Reasoning in Outdoor and Indoor Spaces. Lecture Notes in Computer Science, 2013, , 490-495.	1.3	2
76	Towards a unified model of outdoor and indoor spaces. , 2012, , .		8
77	A Foundation for Efficient Indoor Distance-Aware Query Processing. , 2012, , .		54
78	Upgrading Uncompetitive Products Economically. , 2012, , .		11
79	ISA 2011 Workshop Report: a report on the Third International Workshop on Indoor Spatial Awareness. SIGSPATIAL Special, 2012, 4, 8-9.	2.7	2
80	Improving Wi-Fi Based Indoor Positioning Using Bluetooth Add-Ons. , 2011, , .		42
81	Spatio-temporal joins on symbolic indoor tracking data. , 2011, , .		31
82	Design and analysis of a ranking approach to private location-based services. ACM Transactions on Database Systems, 2011, 36, 1-42.	2.8	41
83	Constrained Skyline Query Processing against Distributed Data Sites. IEEE Transactions on Knowledge and Data Engineering, 2011, 23, 204-217.	5.7	44
84	On Computing Farthest Dominated Locations. IEEE Transactions on Knowledge and Data Engineering, 2011, 23, 928-941.	5.7	12
85	Ranking Spatial Data by Quality Preferences. IEEE Transactions on Knowledge and Data Engineering, 2011, 23, 433-446.	5.7	29
86	Flexible and Efficient Resolution of Skyline Query Size Constraints. IEEE Transactions on Knowledge and Data Engineering, 2011, 23, 991-1005.	5.7	30
87	Top-k Similarity Search on Uncertain Trajectories. Lecture Notes in Computer Science, 2011, , 589-591.	1.3	0
88	Understanding the meaning of a shifted sky: a general framework on extending skyline query. VLDB Journal, 2010, 19, 181-201.	4.1	24
89	Continuous Skyline Monitoring over Distributed Data Streams. Lecture Notes in Computer Science, 2010, , 565-583.	1.3	11
90	Probabilistic threshold k nearest neighbor queries over moving objects in symbolic indoor space. , 2010, , .		63

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91	Identifying the Most Influential User Preference from an Assorted Collection. Lecture Notes in Computer Science, 2010, , 233-251.	1.3	0
92	Scalable continuous range monitoring of moving objects in symbolic indoor space. , 2009, , .		31
93	Efficient Skyline Computation in Structured Peer-to-Peer Systems. IEEE Transactions on Knowledge and Data Engineering, 2009, 21, 1059-1072.	5.7	19
94	Graph Model Based Indoor Tracking. , 2009, , .		115
95	Indexing the Trajectories of Moving Objects in Symbolic Indoor Space. Lecture Notes in Computer Science, 2009, , 208-227.	1.3	51
96	Location Privacy Techniques in Client-Server Architectures. Lecture Notes in Computer Science, 2009, , 31-58.	1.3	34
97	Identifying the Most Endangered Objects from Spatial Datasets. Lecture Notes in Computer Science, 2009, , 608-626.	1.3	1
98	SpaceTwist: Managing the Trade-Offs Among Location Privacy, Query Performance, and Query Accuracy in Mobile Services. , 2008, , .		237
99	Towards Efficient and Flexible KNN Query Processing in Real-Life Road Networks. , 2008, , .		1
100	iSky: Efficient and Progressive Skyline Computing in a Structured P2P Network. , 2008, , .		26
101	Parallel Distributed Processing of Constrained Skyline Queries by Filtering. , 2008, , .		56
102	PAD. , 2008, , .		160
103	Snapshot density queries on location sensors. , 2007, , .		4
104	Adapting Relational Database Engine to Accommodate Moving Objects in SpADE. , 2007, , .		2
105	Collaborative Spatial Data Sharing Among Mobile Lightweight Devices. Lecture Notes in Computer Science, 2007, , 366-384.	1.3	7
106	Distributed, Concurrent Range Monitoring of Spatial-Network Constrained Mobile Objects. Lecture Notes in Computer Science, 2007, , 403-422.	1.3	2
107	S-GRID: A Versatile Approach to Efficient Query Processing in Spatial Networks. Lecture Notes in Computer Science, 2007, , 93-111.	1.3	20
108	Skyline Queries Against Mobile Lightweight Devices in MANETs. , 2006, , .		69

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109	Continuous Skyline Queries for Moving Objects. IEEE Transactions on Knowledge and Data Engineering, 2006, 18, 1645-1658.	5.7	109
110	Discovering strong skyline points in high dimensional spaces. , 2005, , .		23
111	Two ellipse-based pruning methods for group nearest neighbor queries. , 2005, , .		46