Yannis Theodoridis

List of Publications by Year
in descending order

152 papers	5,562 citations	172457 29 h-index	133252 59 g-index
166 all docs	166 docs citations	166 times ranked	2924 citing authors

#	Article	IF	Citations
1	State-of-the-art in privacy preserving data mining. SIGMOD Record, 2004, 33, 50-57.	1.2	661
2	Semantic trajectories modeling and analysis. ACM Computing Surveys, 2013, 45, 1-32.	23.0	395
3	Spatio-temporal indexing for large multimedia applications. , 1996, , .		201
4	A model for the prediction of R-tree performance. , 1996, , .		197
5	MONIC. , 2006, , .		174
6	Literature review of spatio-temporal database models. Knowledge Engineering Review, 2004, 19, 235-274.	2.6	171
7	On the Generation of Spatiotemporal Datasets. Lecture Notes in Computer Science, 1999, , 147-164.	1.3	166
8	Topological relations in the world of minimum bounding rectangles. , 1995, , .		150
9	Spatial relations, minimum bounding rectangles, and spatial data structures. International Journal of Geographical Information Science, 1997, 11, 111-138.	4.8	136
10	Index-based Most Similar Trajectory Search. , 2007, , .		134
11	Closest pair queries in spatial databases. , 2000, , .		129
12	R-Trees: Theory and Applications. Advanced Information and Knowledge Processing, 2006, , .	0.3	119
13	Spatio-temporal composition and indexing for large multimedia applications. Multimedia Systems, 1998, 6, 284-298.	4.7	105
14	Similarity Search in Trajectory Databases. , 2007, , .		96
15	Online event recognition from moving vessel trajectories. GeoInformatica, 2017, 21, 389-427.	2.7	93
16	Efficient cost models for spatial queries using R-trees. IEEE Transactions on Knowledge and Data Engineering, 2000, 12, 19-32.	5.7	88
17	Algorithms for Nearest Neighbor Search on Moving Object Trajectories. GeoInformatica, 2007, 11, 159-193.	2.7	86
18	Clustering uncertain trajectories. Knowledge and Information Systems, 2011, 28, 117-147.	3.2	84

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19	Algorithms for processing K-closest-pair queries in spatial databases. Data and Knowledge Engineering, 2004, 49, 67-104.	3.4	83
20	Closest pair queries in spatial databases. SIGMOD Record, 2000, 29, 189-200.	1.2	81
21	A Pattern Similarity Scheme for Medical Image Retrieval. IEEE Transactions on Information Technology in Biomedicine, 2009, 13, 442-450.	3.2	71
22	Segmentation and Sampling of Moving Object Trajectories Based on Representativeness. IEEE Transactions on Knowledge and Data Engineering, 2012, 24, 1328-1343.	5.7	69
23	Privacy-Preserving Indoor Localization on Smartphones. IEEE Transactions on Knowledge and Data Engineering, 2015, 27, 3042-3055.	5.7	65
24	Generating semantics-based trajectories of moving objects. Computers, Environment and Urban Systems, 2003, 27, 243-263.	7.1	64
25	Map-matched trajectory compression. Journal of Systems and Software, 2013, 86, 1566-1579.	4.5	61
26	Processing and optimization of multiway spatial joins using R-trees. , 1999, , .		59
27	Mobility Data Management and Exploration. , 2014, , .		59
28	The Baquara2 knowledge-based framework for semantic enrichment and analysis of movement data. Data and Knowledge Engineering, 2015, 98, 104-122.	3.4	59
29	Building real-world trajectory warehouses. , 2008, , .		56
30	Clustering Trajectories of Moving Objects in an Uncertain World. , 2009, , .		56
31	Nearest Neighbor Search on Moving Object Trajectories. Lecture Notes in Computer Science, 2005, , 328-345.	1.3	53
32	Advanced Database Indexing. The Kluwer International Series on Advances in Database Systems, 2000, , .	1.1	51
33	Evaluation of Access Structures for Discretely Moving Points. Lecture Notes in Computer Science, 1999, , 171-189.	1.3	46
34	An evaluation of data stream clustering algorithms. Statistical Analysis and Data Mining, 2018, 11, 167-187.	2.8	44
35	Visually exploring movement data via similarity-based analysis. Journal of Intelligent Information Systems, 2012, 38, 343-391.	3.9	43
36	Generating spatiotemporal datasets on the WWW. SIGMOD Record, 2000, 29, 39-43.	1.2	43

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37	Ten Benchmark Database Queries for Location-based Services. Computer Journal, 2003, 46, 713-725.	2.4	42
38	Revisiting R-Tree Construction Principles. Lecture Notes in Computer Science, 2002, , 149-162.	1.3	42
39	Topological relations in the world of minimum bounding rectangles. SIGMOD Record, 1995, 24, 92-103.	1.2	39
40	Trajectory Compression under Network Constraints. Lecture Notes in Computer Science, 2009, , 392-398.	1.3	30
41	Constrained subspace skyline computation. , 2006, , .		29
42	Efficient algorithms for distortion and blocking techniques in association rule hiding. Distributed and Parallel Databases, 2007, 22, 85-104.	1.6	27
43	Semantic-aware aircraft trajectory prediction using flight plans. International Journal of Data Science and Analytics, 2020, 9, 215-228.	4.1	27
44	Path-based queries on trajectory data. , 2014, , .		26
45	Spatio-temporal composition in multimedia applications. , 0, , .		25
46	Unveiling movement uncertainty for robust trajectory similarity analysis. International Journal of Geographical Information Science, 2018, 32, 140-168.	4.8	25
47	Indexed-based density biased sampling for clustering applications. Data and Knowledge Engineering, 2006, 57, 37-63.	3.4	23
48	T-Warehouse: Visual OLAP analysis on trajectory data. , 2010, , .		23
49	On temporal-constrained sub-trajectory cluster analysis. Data Mining and Knowledge Discovery, 2017, 31, 1294-1330.	3.7	23
50	SeTraStream: Semantic-Aware Trajectory Construction over Streaming Movement Data. Lecture Notes in Computer Science, 2011, , 367-385.	1.3	23
51	The retrieval of direction relations using R-trees. Lecture Notes in Computer Science, 1994, , 173-182.	1.3	22
52	TACO. , 2010, , .		21
53	Baquara: A Holistic Ontological Framework for Movement Analysis Using Linked Data. Lecture Notes in Computer Science, 2013, , 342-355.	1.3	21
54	In-network approximate computation of outliers with quality guarantees. Information Systems, 2013, 38, 1285-1308.	3.6	20

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55	Hermoupolis: A Trajectory Generator for Simulating Generalized Mobility Patterns. Lecture Notes in Computer Science, 2013, , 659-662.	1.3	20
56	Distributed Subtrajectory Join on Massive Datasets. ACM Transactions on Spatial Algorithms and Systems, 2020, 6, 1-29.	1.4	20
57	Boosting location-based services with a moving object database engine. , 2006, , .		19
58	On the Management and Analysis of Our LifeSteps. SIGKDD Explorations: Newsletter of the Special Interest Group (SIG) on Knowledge Discovery & Data Mining, 2014, 15, 23-32.	4.0	19
59	A Unified and Flexible Framework for Comparing Simple and Complex Patterns. Lecture Notes in Computer Science, 2004, , 496-499.	1.3	19
60	Privacy-aware querying over sensitive trajectory data. , 2011, , .		18
61	Constraint-Based Processing of Multiway Spatial Joins. Algorithmica, 2001, 30, 188-215.	1.3	17
62	Multi-Way Distance Join Queries in Spatial Databases. GeoInformatica, 2004, 8, 373-402.	2.7	17
63	Mining Trajectory Databases via a Suite of Distance Operators. , 2007, , .		17
64	Range queries involving spatial relations: A performance analysis. Lecture Notes in Computer Science, 1995, , 537-551.	1.3	15
65	The DAEDALUS framework. , 2008, , .		15
66	On the Effect of Location Uncertainty in Spatial Querying. IEEE Transactions on Knowledge and Data Engineering, 2009, 21, 366-383.	5.7	15
67	Scalable Distributed Subtrajectory Clustering. , 2019, , .		15
68	SPARTAN: Semantic integration of big spatio-temporal data from streaming and archival sources. Future Generation Computer Systems, 2020, 110, 540-555.	7.5	15
69	R-Trees â€" AÂDynamic Index Structure forÂSpatial Searching. , 2008, , 993-1002.		15
70	Unsupervised Trajectory Sampling. Lecture Notes in Computer Science, 2010, , 17-33.	1.3	15
71	Direction relations and two-dimensional range queries: optimisation techniques. Data and Knowledge Engineering, 1998, 27, 313-336.	3.4	14
72	Cost models for distance joins queries using R-trees. Data and Knowledge Engineering, 2006, 57, 1-36.	3.4	14

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73	A quantitative and qualitative ANALYSIS of blocking in association rule hiding. , 2004, , .		13
74	Hermoupolis. SIGSPATIAL Special, 2015, 7, 19-26.	2.7	13
75	A general framework for estimating similarity of datasets and decision trees: exploring semantic similarity of decision trees. , 2008, , .		11
76	EasyTracker: An Android Application for Capturing Mobility Behavior. , 2012, , .		11
77	Spatiotemporal Access Methods. The Kluwer International Series on Advances in Database Systems, 2000, , 141-166.	1.1	11
78	Ad-hoc OLAP on Trajectory Data. , 2010, , .		10
79	Private-HERMES. , 2012, , .		10
80	Optimal time-dependent sequenced route queries in road networks. , 2015, , .		10
81	Hot Spot Analysis over Big Trajectory Data. , 2018, , .		10
82	On-the-fly mobility event detection over aircraft trajectories. , 2018, , .		10
83	ARGO. , 2019, , .		10
84	R-Trees: A Dynamic Index Structure for Spatial Searching. , 2017, , 1805-1817.		10
85	Point representation of spatial objects and query window extension: a new technique for spatial access methods. International Journal of Geographical Information Science, 1997, 11, 529-554.	4.8	9
86	An efficient and effective algorithm for density biased sampling. , 2002, , .		9
87	Privacy-preserving indoor localization on smartphones. , 2016, , .		9
88	R-Trees: A Dynamic Index Structure for Spatial Searching. , 2016, , 1-13.		9
89	A Survey on Big Data Processing Frameworks for Mobility Analytics. SIGMOD Record, 2021, 50, 18-29.	1.2	9
90	Chapter 6: Access Methods and Query Processing Techniques. Lecture Notes in Computer Science, 2003, , 203-261.	1.3	8

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91	Trajectory based traffic analysis. , 2013, , .		8
92	Time-Aware Sub-Trajectory Clustering in Hermes@PostgreSQL. , 2018, , .		8
93	FINGERPRINT. International Journal of Data Warehousing and Mining, 2012, 8, 27-44.	0.6	8
94	Particle swarm optimization and RBF neural networks for public transport arrival time prediction using GTFS data. International Journal of Information Management Data Insights, 2022, 2, 100086.	9.7	8
95	Fuzzy Miner. International Journal of Data Warehousing and Mining, 2005, 1, 57-81.	0.6	7
96	Seismological Data Warehousing and Mining. International Journal of Data Warehousing and Mining, 2008, 4, 1-16.	0.6	7
97	The Panda framework for comparing patterns. Data and Knowledge Engineering, 2009, 68, 244-260.	3.4	7
98	Privacy-Aware Mobility Data Exploration. , 2014, , 169-185.		7
99	Summarizing Cluster Evolution in Dynamic Environments. Lecture Notes in Computer Science, 2011, , 562-577.	1.3	7
100	Seismo-Surfer: A Prototype for Collecting, Querying, and Mining Seismic Data. Lecture Notes in Computer Science, 2003, , 159-171.	1.3	6
101	Hermessem: A semantic-aware framework for the management and analysis of our LifeSteps. , 2015, , .		6
102	Database Support for Data Mining Patterns. Lecture Notes in Computer Science, 2005, , 14-24.	1.3	6
103	Towards a Taxonomy of Location Based Services. Lecture Notes in Computer Science, 2005, , 19-30.	1.3	6
104	Online Long-Term Trajectory Prediction Based on Mined Route Patterns. Lecture Notes in Computer Science, 2020, , 34-49.	1.3	6
105	On the Effect of Trajectory Compression in Spatiotemporal Querying. Lecture Notes in Computer Science, 2007, , 217-233.	1.3	6
106	How not to drown in a sea of information: An event recognition approach. , 2015, , .		5
107	On querying and mining semantic-aware mobility timelines. International Journal of Data Science and Analytics, 2016, 2, 29-44.	4.1	5
108	Searching for Spatio-Temporal-Keyword Patterns in Semantic Trajectories. Lecture Notes in Computer Science, 2017, , 112-124.	1.3	5

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109	MONIC and Followups on Modeling and Monitoring Cluster Transitions. Lecture Notes in Computer Science, 2013, , 622-626.	1.3	5
110	The Piraeus AIS dataset for large-scale maritime data analytics. Data in Brief, 2022, 40, 107782.	1.0	5
111	Mobility Data Mining and Knowledge Discovery. , 2014, , 143-167.		4
112	Sea Area Monitoring and Analysis of Fishing Vessels Activity: The i4sea Big Data Platform. , 2020, , .		4
113	Online discovery of co-movement patterns in mobility data. International Journal of Geographical Information Science, 2021, 35, 819-845.	4.8	4
114	i4sea: a big data platform for sea area monitoring and analysis of fishing vessels activity. Geo-Spatial Information Science, 2022, 25, 132-154.	5.3	4
115	Simulating Our LifeSteps by Example. ACM Transactions on Spatial Algorithms and Systems, 2016, 2, 1-39.	1.4	3
116	Increasing Maritime Situation Awareness via Trajectory Detection, Enrichment and Recognition of Events. Lecture Notes in Computer Science, 2018, , 130-140.	1.3	3
117	Chapter 9: Spatio-temporal Databases in the Years Ahead. Lecture Notes in Computer Science, 2003, , 345-347.	1.3	2
118	Measuring Performance in the Retail Industry (Position Paper). Lecture Notes in Computer Science, 2006, , 129-140.	1.3	2
119	Pattern-Miner. , 2008, , .		2
120	Trajectory Collection and Reconstruction. , 0, , 23-41.		2
121	MaSEC: Discovering Anchorages and Co-movement Patterns on Streaming Vessel Trajectories. , 2021, , .		2
122	Spatial Access Methods. The Kluwer International Series on Advances in Database Systems, 2000, , 117-139.	1.1	2
123	Future Location and Trajectory Prediction. , 2020, , 215-254.		2
124	Towards the Next Generation of Location-Based Services. , 2007, , 202-215.		2
125	Cost Models and Efficient Algorithms on Existentially Uncertain Spatial Data. , 2008, , .		1
126	Modeling and Acquiring Mobility Data. , 2014, , 51-73.		1

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127	Semantic Aspects on Mobility Data. , 2014, , 189-209.		1
128	Fuzzy Miner. , 0, , 299-321.		1
129	A Framework for Integrating Ontologies and Pattern-Bases. , 2008, , 237-255.		1
130	Spatio-Temporal Trajectories. , 2009, , 2742-2746.		1
131	On the Support of Mobility in ORDBMS. International Journal of Knowledge-Based Organizations, 2014, 4, 38-64.	0.4	1
132	EvolvingClusters: Online Discovery of Group Patterns in Enriched Maritime Data. Lecture Notes in Computer Science, 2020, , 50-65.	1.3	1
133	Trajectory Detection and Summarization over Surveillance Data Streams. , 2020, , 85-120.		1
134	Comparing Datasets Using Frequent Itemsets: Dependency on the Mining Parameters. Lecture Notes in Computer Science, 2008, , 212-225.	1.3	1
135	Public Transport Arrival Time Prediction Based on GTFS Data. Lecture Notes in Computer Science, 2022, , 481-495.	1.3	1
136	Report on the International Workshop on Pattern Representation and Management (PaRMa'04). SIGMOD Record, 2005, 34, 65-67.	1.2	0
137	GF-Miner: a Genetic Fuzzy Classifier for Numerical Data. IFIP Advances in Information and Communication Technology, 2009, , 529-534.	0.7	0
138	Learning from Our Movements â€" The Mobility Data Analytics Era. Lecture Notes in Computer Science, 2020, , 1-5.	1.3	0
139	Visual Analytics for Characterizing Mobility Aspects of Urban Context. Urban Book Series, 2021, , 727-755.	0.6	0
140	Image and Multimedia Indexing. The Kluwer International Series on Advances in Database Systems, 2000, , 167-186.	1.1	0
141	Pattern Comparison in Data Mining. , 2007, , 86-120.		0
142	NEFOS: Rapid Cache-Aware Range Query Processing with Probabilistic Guarantees. Lecture Notes in Computer Science, 2011, , 62-77.	1.3	0
143	Moving Object Database Engines. , 2014, , 101-118.		0
144	Preparing for Mobility Data Exploration. , 2014, , 121-141.		0

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145	Spatio-Temporal Trajectories. , 2014, , 1-6.		0
146	Background on Spatial Data Management and Exploration. , 2014, , 21-47.		0
147	Mobility Database Management. , 2014, , 75-99.		0
148	Spatiotemporal Trajectories. , 2018, , 3653-3658.		0
149	Systems for Privacy-Preserving Mobility Data Management. , 2018, , 281-305.		0
150	Offline Trajectory Analytics. , 2020, , 275-312.		0
151	Monitoring Patterns through an Integrated Management and Mining Tool. Lecture Notes in Computer Science, 2008, , 678-683.	1.3	0
152	Seismological Data Warehousing and Mining. , 0, , 395-402.		0