Yannis Theodoridis

List of Publications by Year
in descending order

		172457		133252
152 papers	5,562 citations	29 h-index	59 g-index	

166 all docs	166 docs citations	166 times ranked	2924 citing authors

#	Article	IF	Citations
1	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
2	The Piraeus AIS dataset for large-scale maritime data analytics. Data in Brief, 2022, 40, 107782.	1.0	5
3	Public Transport Arrival Time Prediction Based on GTFS Data. Lecture Notes in Computer Science, 2022, , 481-495.	1.3	1
4	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
5	Online discovery of co-movement patterns in mobility data. International Journal of Geographical Information Science, 2021, 35, 819-845.	4.8	4
6	Visual Analytics for Characterizing Mobility Aspects of Urban Context. Urban Book Series, 2021, , 727-755.	0.6	0
7	MaSEC: Discovering Anchorages and Co-movement Patterns on Streaming Vessel Trajectories. , 2021, , .		2
8	A Survey on Big Data Processing Frameworks for Mobility Analytics. SIGMOD Record, 2021, 50, 18-29.	1.2	9
9	Semantic-aware aircraft trajectory prediction using flight plans. International Journal of Data Science and Analytics, 2020, 9, 215-228.	4.1	27
10	SPARTAN: Semantic integration of big spatio-temporal data from streaming and archival sources. Future Generation Computer Systems, 2020, 110, 540-555.	7.5	15
11	Learning from Our Movements â€" The Mobility Data Analytics Era. Lecture Notes in Computer Science, 2020, , 1-5.	1.3	0
12	Sea Area Monitoring and Analysis of Fishing Vessels Activity: The i4sea Big Data Platform. , 2020, , .		4
13	Online Long-Term Trajectory Prediction Based on Mined Route Patterns. Lecture Notes in Computer Science, 2020, , 34-49.	1.3	6
14	Distributed Subtrajectory Join on Massive Datasets. ACM Transactions on Spatial Algorithms and Systems, 2020, 6, 1-29.	1.4	20
15	EvolvingClusters: Online Discovery of Group Patterns in Enriched Maritime Data. Lecture Notes in Computer Science, 2020, , 50-65.	1.3	1
16	Future Location and Trajectory Prediction. , 2020, , 215-254.		2
17	Trajectory Detection and Summarization over Surveillance Data Streams. , 2020, , 85-120.		1
18	Offline Trajectory Analytics. , 2020, , 275-312.		0

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19	ARGO. , 2019, , .		10
20	Scalable Distributed Subtrajectory Clustering. , 2019, , .		15
21	Unveiling movement uncertainty for robust trajectory similarity analysis. International Journal of Geographical Information Science, 2018, 32, 140-168.	4.8	25
22	Time-Aware Sub-Trajectory Clustering in Hermes@PostgreSQL. , 2018, , .		8
23	Hot Spot Analysis over Big Trajectory Data. , 2018, , .		10
24	On-the-fly mobility event detection over aircraft trajectories. , 2018, , .		10
25	Increasing Maritime Situation Awareness via Trajectory Detection, Enrichment and Recognition of Events. Lecture Notes in Computer Science, 2018, , 130-140.	1.3	3
26	An evaluation of data stream clustering algorithms. Statistical Analysis and Data Mining, 2018, 11, 167-187.	2.8	44
27	Spatiotemporal Trajectories. , 2018, , 3653-3658.		0
28	Systems for Privacy-Preserving Mobility Data Management. , 2018, , 281-305.		0
29	On temporal-constrained sub-trajectory cluster analysis. Data Mining and Knowledge Discovery, 2017, 31, 1294-1330.	3.7	23
30	Searching for Spatio-Temporal-Keyword Patterns in Semantic Trajectories. Lecture Notes in Computer Science, 2017, , 112-124.	1.3	5
31	Online event recognition from moving vessel trajectories. GeoInformatica, 2017, 21, 389-427.	2.7	93
32	R-Trees: A Dynamic Index Structure for Spatial Searching. , 2017, , 1805-1817.		10
33	On querying and mining semantic-aware mobility timelines. International Journal of Data Science and Analytics, 2016, 2, 29-44.	4.1	5
34	Privacy-preserving indoor localization on smartphones. , 2016, , .		9
35	Simulating Our LifeSteps by Example. ACM Transactions on Spatial Algorithms and Systems, 2016, 2, 1-39.	1.4	3
36	R-Trees: A Dynamic Index Structure for Spatial Searching. , 2016, , 1-13.		9

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37	Optimal time-dependent sequenced route queries in road networks. , 2015, , .		10
38	Hermessem: A semantic-aware framework for the management and analysis of our LifeSteps. , 2015, , .		6
39	Hermoupolis. SIGSPATIAL Special, 2015, 7, 19-26.	2.7	13
40	How not to drown in a sea of information: An event recognition approach. , 2015, , .		5
41	The Baquara2 knowledge-based framework for semantic enrichment and analysis of movement data. Data and Knowledge Engineering, 2015, 98, 104-122.	3.4	59
42	Privacy-Preserving Indoor Localization on Smartphones. IEEE Transactions on Knowledge and Data Engineering, 2015, 27, 3042-3055.	5.7	65
43	Path-based queries on trajectory data. , 2014, , .		26
44	Mobility Data Mining and Knowledge Discovery. , 2014, , 143-167.		4
45	Mobility Data Management and Exploration. , 2014, , .		59
46	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
47	Modeling and Acquiring Mobility Data. , 2014, , 51-73.		1
48	Privacy-Aware Mobility Data Exploration. , 2014, , 169-185.		7
49	Semantic Aspects on Mobility Data. , 2014, , 189-209.		1
50	Moving Object Database Engines. , 2014, , 101-118.		0
51	Preparing for Mobility Data Exploration. , 2014, , 121-141.		0
52	Spatio-Temporal Trajectories. , 2014, , 1-6.		0
53	Background on Spatial Data Management and Exploration. , 2014, , 21-47.		0
54	Mobility Database Management. , 2014, , 75-99.		0

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55	On the Support of Mobility in ORDBMS. International Journal of Knowledge-Based Organizations, 2014, 4, 38-64.	0.4	1
56	Semantic trajectories modeling and analysis. ACM Computing Surveys, 2013, 45, 1-32.	23.0	395
57	In-network approximate computation of outliers with quality guarantees. Information Systems, 2013, 38, 1285-1308.	3.6	20
58	Map-matched trajectory compression. Journal of Systems and Software, 2013, 86, 1566-1579.	4.5	61
59	Trajectory based traffic analysis. , 2013, , .		8
60	MONIC and Followups on Modeling and Monitoring Cluster Transitions. Lecture Notes in Computer Science, 2013, , 622-626.	1.3	5
61	Hermoupolis: A Trajectory Generator for Simulating Generalized Mobility Patterns. Lecture Notes in Computer Science, 2013, , 659-662.	1.3	20
62	Baquara: A Holistic Ontological Framework for Movement Analysis Using Linked Data. Lecture Notes in Computer Science, 2013, , 342-355.	1.3	21
63	Private-HERMES. , 2012, , .		10
64	EasyTracker: An Android Application for Capturing Mobility Behavior. , 2012, , .		11
65	Segmentation and Sampling of Moving Object Trajectories Based on Representativeness. IEEE Transactions on Knowledge and Data Engineering, 2012, 24, 1328-1343.	5.7	69
66	Visually exploring movement data via similarity-based analysis. Journal of Intelligent Information Systems, 2012, 38, 343-391.	3.9	43
67	FINGERPRINT. International Journal of Data Warehousing and Mining, 2012, 8, 27-44.	0.6	8
68	Privacy-aware querying over sensitive trajectory data. , 2011, , .		18
69	Clustering uncertain trajectories. Knowledge and Information Systems, 2011, 28, 117-147.	3.2	84
70	Summarizing Cluster Evolution in Dynamic Environments. Lecture Notes in Computer Science, 2011, , 562-577.	1.3	7
71	SeTraStream: Semantic-Aware Trajectory Construction over Streaming Movement Data. Lecture Notes in Computer Science, 2011, , 367-385.	1.3	23
72	NEFOS: Rapid Cache-Aware Range Query Processing with Probabilistic Guarantees. Lecture Notes in Computer Science, 2011, , 62-77.	1.3	0

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73	TACO. , 2010, , .		21
74	Ad-hoc OLAP on Trajectory Data. , 2010, , .		10
75	T-Warehouse: Visual OLAP analysis on trajectory data. , 2010, , .		23
76	Unsupervised Trajectory Sampling. Lecture Notes in Computer Science, 2010, , 17-33.	1.3	15
77	On the Effect of Location Uncertainty in Spatial Querying. IEEE Transactions on Knowledge and Data Engineering, 2009, 21, 366-383.	5.7	15
78	A Pattern Similarity Scheme for Medical Image Retrieval. IEEE Transactions on Information Technology in Biomedicine, 2009, 13, 442-450.	3.2	71
79	The Panda framework for comparing patterns. Data and Knowledge Engineering, 2009, 68, 244-260.	3.4	7
80	Clustering Trajectories of Moving Objects in an Uncertain World. , 2009, , .		56
81	GF-Miner: a Genetic Fuzzy Classifier for Numerical Data. IFIP Advances in Information and Communication Technology, 2009, , 529-534.	0.7	0
82	Trajectory Compression under Network Constraints. Lecture Notes in Computer Science, 2009, , 392-398.	1.3	30
83	Spatio-Temporal Trajectories. , 2009, , 2742-2746.		1
84	Cost Models and Efficient Algorithms on Existentially Uncertain Spatial Data. , 2008, , .		1
85	The DAEDALUS framework. , 2008, , .		15
86	Pattern-Miner. , 2008, , .		2
87	Building real-world trajectory warehouses. , 2008, , .		56
88	A general framework for estimating similarity of datasets and decision trees: exploring semantic similarity of decision trees. , 2008, , .		11
89	Seismological Data Warehousing and Mining. International Journal of Data Warehousing and Mining, 2008, 4, 1-16.	0.6	7
90	R-Trees â€" AÂDynamic Index Structure forÂSpatial Searching. , 2008, , 993-1002.		15

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91	A Framework for Integrating Ontologies and Pattern-Bases. , 2008, , 237-255.		1
92	Monitoring Patterns through an Integrated Management and Mining Tool. Lecture Notes in Computer Science, 2008, , 678-683.	1.3	0
93	Comparing Datasets Using Frequent Itemsets: Dependency on the Mining Parameters. Lecture Notes in Computer Science, 2008, , 212-225.	1.3	1
94	Mining Trajectory Databases via a Suite of Distance Operators. , 2007, , .		17
95	Index-based Most Similar Trajectory Search. , 2007, , .		134
96	Similarity Search in Trajectory Databases. , 2007, , .		96
97	Efficient algorithms for distortion and blocking techniques in association rule hiding. Distributed and Parallel Databases, 2007, 22, 85-104.	1.6	27
98	Algorithms for Nearest Neighbor Search on Moving Object Trajectories. GeoInformatica, 2007, 11, 159-193.	2.7	86
99	On the Effect of Trajectory Compression in Spatiotemporal Querying. Lecture Notes in Computer Science, 2007, , 217-233.	1.3	6
100	Pattern Comparison in Data Mining. , 2007, , 86-120.		0
101	Towards the Next Generation of Location-Based Services. , 2007, , 202-215.		2
102	R-Trees: Theory and Applications. Advanced Information and Knowledge Processing, 2006, , .	0.3	119
103	Indexed-based density biased sampling for clustering applications. Data and Knowledge Engineering, 2006, 57, 37-63.	3.4	23
104	Cost models for distance joins queries using R-trees. Data and Knowledge Engineering, 2006, 57, 1-36.	3.4	14
105	Boosting location-based services with a moving object database engine. , 2006, , .		19
106	MONIC. , 2006, , .		174
107	Constrained subspace skyline computation. , 2006, , .		29
108	Measuring Performance in the Retail Industry (Position Paper). Lecture Notes in Computer Science, 2006, , 129-140.	1.3	2

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109	Report on the International Workshop on Pattern Representation and Management (PaRMa'04). SIGMOD Record, 2005, 34, 65-67.	1.2	0
110	Fuzzy Miner. International Journal of Data Warehousing and Mining, 2005, 1, 57-81.	0.6	7
111	Nearest Neighbor Search on Moving Object Trajectories. Lecture Notes in Computer Science, 2005, , 328-345.	1.3	53
112	Database Support for Data Mining Patterns. Lecture Notes in Computer Science, 2005, , 14-24.	1.3	6
113	Towards a Taxonomy of Location Based Services. Lecture Notes in Computer Science, 2005, , 19-30.	1.3	6
114	Literature review of spatio-temporal database models. Knowledge Engineering Review, 2004, 19, 235-274.	2.6	171
115	Multi-Way Distance Join Queries in Spatial Databases. GeoInformatica, 2004, 8, 373-402.	2.7	17
116	Algorithms for processing K-closest-pair queries in spatial databases. Data and Knowledge Engineering, 2004, 49, 67-104.	3.4	83
117	A quantitative and qualitative ANALYSIS of blocking in association rule hiding. , 2004, , .		13
118	State-of-the-art in privacy preserving data mining. SIGMOD Record, 2004, 33, 50-57.	1.2	661
119	A Unified and Flexible Framework for Comparing Simple and Complex Patterns. Lecture Notes in Computer Science, 2004, , 496-499.	1.3	19
120	Generating semantics-based trajectories of moving objects. Computers, Environment and Urban Systems, 2003, 27, 243-263.	7.1	64
121	Seismo-Surfer: A Prototype for Collecting, Querying, and Mining Seismic Data. Lecture Notes in Computer Science, 2003, , 159-171.	1.3	6
122	Chapter 6: Access Methods and Query Processing Techniques. Lecture Notes in Computer Science, 2003, , 203-261.	1.3	8
123	Chapter 9: Spatio-temporal Databases in the Years Ahead. Lecture Notes in Computer Science, 2003, , 345-347.	1.3	2
124	Ten Benchmark Database Queries for Location-based Services. Computer Journal, 2003, 46, 713-725.	2.4	42
125	An efficient and effective algorithm for density biased sampling. , 2002, , .		9
126	Revisiting R-Tree Construction Principles. Lecture Notes in Computer Science, 2002, , 149-162.	1.3	42

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127	Constraint-Based Processing of Multiway Spatial Joins. Algorithmica, 2001, 30, 188-215.	1.3	17
128	Closest pair queries in spatial databases. SIGMOD Record, 2000, 29, 189-200.	1.2	81
129	Closest pair queries in spatial databases. , 2000, , .		129
130	Efficient cost models for spatial queries using R-trees. IEEE Transactions on Knowledge and Data Engineering, 2000, 12, 19-32.	5.7	88
131	Advanced Database Indexing. The Kluwer International Series on Advances in Database Systems, 2000, , .	1.1	51
132	Generating spatiotemporal datasets on the WWW. SIGMOD Record, 2000, 29, 39-43.	1.2	43
133	Image and Multimedia Indexing. The Kluwer International Series on Advances in Database Systems, 2000, , 167-186.	1.1	0
134	Spatial Access Methods. The Kluwer International Series on Advances in Database Systems, 2000, , 117-139.	1.1	2
135	Spatiotemporal Access Methods. The Kluwer International Series on Advances in Database Systems, 2000, , 141-166.	1.1	11
136	Processing and optimization of multiway spatial joins using R-trees. , 1999, , .		59
137	Evaluation of Access Structures for Discretely Moving Points. Lecture Notes in Computer Science, 1999, , 171-189.	1.3	46
138	On the Generation of Spatiotemporal Datasets. Lecture Notes in Computer Science, 1999, , 147-164.	1.3	166
139	Spatio-temporal composition and indexing for large multimedia applications. Multimedia Systems, 1998, 6, 284-298.	4.7	105
140	Direction relations and two-dimensional range queries: optimisation techniques. Data and Knowledge Engineering, 1998, 27, 313-336.	3.4	14
141	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
142	Spatial relations, minimum bounding rectangles, and spatial data structures. International Journal of Geographical Information Science, 1997, 11, 111-138.	4.8	136
143	Spatio-temporal indexing for large multimedia applications. , 1996, , .		201
144	A model for the prediction of R-tree performance. , 1996, , .		197

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145	Topological relations in the world of minimum bounding rectangles. SIGMOD Record, 1995, 24, 92-103.	1.2	39
146	Range queries involving spatial relations: A performance analysis. Lecture Notes in Computer Science, 1995, , 537-551.	1.3	15
147	Topological relations in the world of minimum bounding rectangles. , 1995, , .		150
148	The retrieval of direction relations using R-trees. Lecture Notes in Computer Science, 1994, , 173-182.	1.3	22
149	Spatio-temporal composition in multimedia applications. , 0, , .		25
150	Trajectory Collection and Reconstruction. , 0, , 23-41.		2
151	Fuzzy Miner. , 0, , 299-321.		1
152	Seismological Data Warehousing and Mining. , 0, , 395-402.		0