

Vassilis J Tsotras

List of Publications by Year in descending order

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63
papers

1,836
citations

567281

15
h-index

395702

33
g-index

70
all docs

70
docs citations

70
times ranked

710
citing authors

#	ARTICLE	IF	CITATIONS
1	Subscribing to big data at scale. Distributed and Parallel Databases, 2022, 40, 475-520.	1.6	2
2	Comparison and evaluation of state-of-the-art LSM merge policies. VLDB Journal, 2021, 30, 361-378.	4.1	5
3	Building an end-to-end BAD application. , 2021, , .		0
4	High-Performance Parallel Radix Sort on FPGA. , 2020, , .		4
5	BAD to the bone: Big Active Data at its core. VLDB Journal, 2020, 29, 1337-1364.	4.1	4
6	Experimental Evaluation of Bounded-Depth LSM Merge Policies. , 2019, , .		4
7	Indexing moving object trajectories with hilbert curves. , 2018, , .		5
8	Transaction-Time Indexing. , 2018, , 4211-4217.		0
9	Spatial Indexing Techniques. , 2018, , 3592-3598.		0
10	A BAD demonstration. Proceedings of the VLDB Endowment, 2017, 10, 1941-1944.	3.8	9
11	Indexing Spatiotemporal Archives. , 2017, , 955-966.		4
12	Index Structures, Extensible. , 2017, , 921-933.		0
13	Breaking BAD. , 2016, 2016, 181-186.		14
14	Indexing Spatio-temporal Archives. , 2016, , 1-12.		0
15	Index Structures, Extensible. , 2016, , 1-13.		0
16	Algebricks. , 2015, , .		15
17	High performance FPGA and GPU complex pattern matching over spatio-temporal streams. Geoinformatica, 2015, 19, 405-434.	2.7	6
18	Spatial Indexing Techniques. , 2014, , 1-7.		2

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19	Stream-Mode FPGA Acceleration of Complex Pattern Trajectory Querying. Lecture Notes in Computer Science, 2013, , 201-222.	1.3	7
20	Engineering Generalized Shortest Path queries. , 2013, , .		16
21	Flexible Pattern Queries. SpringerBriefs in Computer Science, 2013, , 5-35.	0.2	2
22	Pattern Queries for Mobile Phone-Call Databases. SpringerBriefs in Computer Science, 2013, , 37-59.	0.2	0
23	Route planning with flexible edge restrictions. Journal of Experimental Algorithmics, 2012, 17, .	1.0	15
24	Querying Transactionâ€™Time Databases under Branched Schema Evolution. Lecture Notes in Computer Science, 2012, , 265-280.	1.3	1
25	Editing and versioning for high performance network models in a multiuser environment. Geoinformatica, 2011, 15, 769-803.	2.7	1
26	Massively parallel XML twig filtering using dynamic programming on FPGAs. , 2011, , .		21
27	DivDB. Proceedings of the VLDB Endowment, 2011, 4, 1395-1398.	3.8	9
28	Graph indexing of road networks for shortest path queries with label restrictions. Proceedings of the VLDB Endowment, 2010, 4, 69-80.	3.8	44
29	Querying trajectories using flexible patterns. , 2010, , .		36
30	Spatial Indexing Techniques. , 2009, , 2702-2707.		5
31	Versioning of Network Models in a Multiuser Environment. Lecture Notes in Computer Science, 2009, , 6-24.	1.3	3
32	Transaction-Time Indexing. , 2009, , 3167-3171.		0
33	Maintaining Connectivity in Dynamic Multimodal Network Models. , 2008, , .		7
34	A Generic Framework for Continuous Motion Pattern Query Evaluation. , 2008, , .		3
35	Indexing Spatio-temporal Archives. , 2008, , 530-538.		1
36	XML Structural Summaries. Proceedings of the VLDB Endowment, 2008, 1, 1524-1525.	3.8	7

#	ARTICLE	IF	CITATIONS
37	RoXSum: Leveraging Data Aggregation and Batch Processing for XML Routing. , 2007, , .		14
38	Indexing spatiotemporal archives. VLDB Journal, 2006, 15, 143-164.	4.1	69
39	Supporting complex queries on multiversion XML documents. ACM Transactions on Internet Technology, 2006, 6, 53-84.	4.4	16
40	Evaluating structural summaries as access methods for XML. , 2006, , .		5
41	Selectivity estimators for multidimensional range queries over real attributes. VLDB Journal, 2005, 14, 137-154.	4.1	86
42	Indexing mobile objects using dual transformations. VLDB Journal, 2005, 14, 238-256.	4.1	36
43	Optimizing spatial Min/Max aggregations. VLDB Journal, 2005, 14, 170-181.	4.1	9
44	SaIL: A Spatial Index Library for Efficient Application Integration. Geoinformatica, 2005, 9, 367-389.	2.7	47
45	Temporal and spatio-temporal aggregations over data streams using multiple time granularities. Information Systems, 2003, 28, 61-84.	3.6	42
46	On-Line Discovery of Dense Areas in Spatio-temporal Databases. Lecture Notes in Computer Science, 2003, , 306-324.	1.3	60
47	Efficient Indexing of Spatiotemporal Objects. Lecture Notes in Computer Science, 2002, , 251-268.	1.3	89
48	Efficient Structural Joins on Indexed XML Documents. , 2002, , 263-274.		174
49	Efficient Complex Query Support for Multiversion XML Documents. Lecture Notes in Computer Science, 2002, , 161-178.	1.3	27
50	Efficient aggregation over objects with extent. , 2002, , .		38
51	XML document versioning. SIGMOD Record, 2001, 30, 46-53.	1.2	28
52	Improving min/max aggregation over spatial objects. , 2001, , .		12
53	Parallel External Sorting. The Kluwer International Series on Advances in Database Systems, 2000, , 209-218.	1.1	1
54	Access Methods for Intervals. The Kluwer International Series on Advances in Database Systems, 2000, , 61-81.	1.1	2

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55	Temporal Access Methods. The Kluwer International Series on Advances in Database Systems, 2000, , 83-115.	1.1	0
56	Comparison of access methods for time-evolving data. ACM Computing Surveys, 1999, 31, 158-221.	23.0	244
57	On indexing mobile objects. , 1999, , .		299
58	Broadcast scheduling for information distribution. Wireless Networks, 1999, 5, 137-147.	3.0	94
59	An extensible notation for spatiotemporal index queries. SIGMOD Record, 1998, 27, 47-53.	1.2	26
60	A load-balanced parallel sorting algorithm for shared-nothing architectures. Distributed and Parallel Databases, 1995, 3, 37-68.	1.6	3
61	Historical queries along multiple lines of time evolution. VLDB Journal, 1995, 4, 703-726.	4.1	16
62	The Snapshot Index: An I/O-Optimal access method for timeslice queries. Information Systems, 1995, 20, 237-260.	3.6	56
63	Efficient algorithms for managing the history of evolving databases. Lecture Notes in Computer Science, 1990, , 141-174.	1.3	5