

# 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	On indexing mobile objects. , 1999, , .		299
2	Comparison of access methods for time-evolving data. ACM Computing Surveys, 1999, 31, 158-221.	23.0	244
3	Efficient Structural Joins on Indexed XML Documents. , 2002, , 263-274.		174
4	Broadcast scheduling for information distribution. Wireless Networks, 1999, 5, 137-147.	3.0	94
5	Efficient Indexing of Spatiotemporal Objects. Lecture Notes in Computer Science, 2002, , 251-268.	1.3	89
6	Selectivity estimators for multidimensional range queries over real attributes. VLDB Journal, 2005, 14, 137-154.	4.1	86
7	Indexing spatiotemporal archives. VLDB Journal, 2006, 15, 143-164.	4.1	69
8	On-Line Discovery of Dense Areas in Spatio-temporal Databases. Lecture Notes in Computer Science, 2003, , 306-324.	1.3	60
9	The Snapshot Index: An I/O-Optimal access method for timeslice queries. Information Systems, 1995, 20, 237-260.	3.6	56
10	SaII: A Spatial Index Library for Efficient Application Integration. Geoinformatica, 2005, 9, 367-389.	2.7	47
11	Graph indexing of road networks for shortest path queries with label restrictions. Proceedings of the VLDB Endowment, 2010, 4, 69-80.	3.8	44
12	Temporal and spatio-temporal aggregations over data streams using multiple time granularities. Information Systems, 2003, 28, 61-84.	3.6	42
13	Efficient aggregation over objects with extent. , 2002, , .		38
14	Indexing mobile objects using dual transformations. VLDB Journal, 2005, 14, 238-256.	4.1	36
15	Querying trajectories using flexible patterns. , 2010, , .		36
16	XML document versioning. SIGMOD Record, 2001, 30, 46-53.	1.2	28
17	Efficient Complex Query Support for Multiversion XML Documents. Lecture Notes in Computer Science, 2002, , 161-178.	1.3	27
18	An extensible notation for spatiotemporal index queries. SIGMOD Record, 1998, 27, 47-53.	1.2	26

#	ARTICLE	IF	CITATIONS
19	Massively parallel XML twig filtering using dynamic programming on FPGAs. , 2011, , .		21
20	Historical queries along multiple lines of time evolution. VLDB Journal, 1995, 4, 703-726.	4.1	16
21	Supporting complex queries on multiversion XML documents. ACM Transactions on Internet Technology, 2006, 6, 53-84.	4.4	16
22	Engineering Generalized Shortest Path queries. , 2013, , .		16
23	Route planning with flexible edge restrictions. Journal of Experimental Algorithmics, 2012, 17, .	1.0	15
24	Algebricks. , 2015, , .		15
25	RoXSum: Leveraging Data Aggregation and Batch Processing for XML Routing. , 2007, , .		14
26	Breaking BAD. , 2016, 2016, 181-186.		14
27	Improving min/max aggregation over spatial objects. , 2001, , .		12
28	Optimizing spatial Min/Max aggregations. VLDB Journal, 2005, 14, 170-181.	4.1	9
29	A BAD demonstration. Proceedings of the VLDB Endowment, 2017, 10, 1941-1944.	3.8	9
30	DivDB. Proceedings of the VLDB Endowment, 2011, 4, 1395-1398.	3.8	9
31	Maintaining Connectivity in Dynamic Multimodal Network Models. , 2008, , .		7
32	Stream-Mode FPGA Acceleration of Complex Pattern Trajectory Querying. Lecture Notes in Computer Science, 2013, , 201-222.	1.3	7
33	XML Structural Summaries. Proceedings of the VLDB Endowment, 2008, 1, 1524-1525.	3.8	7
34	High performance FPGA and GPU complex pattern matching over spatio-temporal streams. Geoinformatica, 2015, 19, 405-434.	2.7	6
35	Evaluating structural summaries as access methods for XML. , 2006, , .		5
36	Indexing moving object trajectories with hilbert curves. , 2018, , .		5

#	ARTICLE	IF	CITATIONS
37	Comparison and evaluation of state-of-the-art LSM merge policies. VLDB Journal, 2021, 30, 361-378.	4.1	5
38	Efficient algorithms for managing the history of evolving databases. Lecture Notes in Computer Science, 1990, , 141-174.	1.3	5
39	Spatial Indexing Techniques. , 2009, , 2702-2707.		5
40	Experimental Evaluation of Bounded-Depth LSM Merge Policies. , 2019, , .		4
41	High-Performance Parallel Radix Sort on FPGA. , 2020, , .		4
42	BAD to the bone: Big Active Data at its core. VLDB Journal, 2020, 29, 1337-1364.	4.1	4
43	Indexing Spatiotemporal Archives. , 2017, , 955-966.		4
44	A load-balanced parallel sorting algorithm for shared-nothing architectures. Distributed and Parallel Databases, 1995, 3, 37-68.	1.6	3
45	A Generic Framework for Continuous Motion Pattern Query Evaluation. , 2008, , .		3
46	Versioning of Network Models in a Multiuser Environment. Lecture Notes in Computer Science, 2009, , 6-24.	1.3	3
47	Access Methods for Intervals. The Kluwer International Series on Advances in Database Systems, 2000, , 61-81.	1.1	2
48	Flexible Pattern Queries. SpringerBriefs in Computer Science, 2013, , 5-35.	0.2	2
49	Spatial Indexing Techniques. , 2014, , 1-7.		2
50	Subscribing to big data at scale. Distributed and Parallel Databases, 2022, 40, 475-520.	1.6	2
51	Editing and versioning for high performance network models in a multiuser environment. Geoinformatica, 2011, 15, 769-803.	2.7	1
52	Indexing Spatio-temporal Archives. , 2008, , 530-538.		1
53	Querying Transactionâ€™Time Databases under Branched Schema Evolution. Lecture Notes in Computer Science, 2012, , 265-280.	1.3	1
54	Parallel External Sorting. The Kluwer International Series on Advances in Database Systems, 2000, , 209-218.	1.1	1

#	ARTICLE	IF	CITATIONS
55	Building an end-to-end BAD application. , 2021, , .		0
56	Temporal Access Methods. The Kluwer International Series on Advances in Database Systems, 2000, , 83-115.	1.1	0
57	Transaction-Time Indexing. , 2009, , 3167-3171.		0
58	Pattern Queries for Mobile Phone-Call Databases. SpringerBriefs in Computer Science, 2013, , 37-59.	0.2	0
59	Indexing Spatio-temporal Archives. , 2016, , 1-12.		0
60	Index Structures, Extensible. , 2016, , 1-13.		0
61	Index Structures, Extensible. , 2017, , 921-933.		0
62	Transaction-Time Indexing. , 2018, , 4211-4217.		0
63	Spatial Indexing Techniques. , 2018, , 3592-3598.		0