

Bart Kuijpers

List of Publications by Year in descending order

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53
papers

639
citations

759055

12
h-index

642610

23
g-index

54
all docs

54
docs citations

54
times ranked

398
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling uncertainty of moving objects on road networks via space-time prisms. <i>International Journal of Geographical Information Science</i> , 2009, 23, 1095-1117.	2.2	89
2	Anchor uncertainty and space-time prisms on road networks. <i>International Journal of Geographical Information Science</i> , 2010, 24, 1223-1248.	2.2	76
3	STEDMQL: A Semantic Trajectory Data Mining Query Language. <i>International Journal of Geographical Information Science</i> , 2009, 23, 1245-1276.	2.2	74
4	Trajectory databases: Data models, uncertainty and complete query languages. <i>Journal of Computer and System Sciences</i> , 2010, 76, 538-560.	0.9	45
5	Spatial aggregation: Data model and implementation. <i>Information Systems</i> , 2009, 34, 551-576.	2.4	32
6	An analytic solution to the alibi query in the space-time prisms model for moving object data. <i>International Journal of Geographical Information Science</i> , 2011, 25, 293-322.	2.2	27
7	Data models and query languages for spatial databases. <i>Data and Knowledge Engineering</i> , 1998, 25, 29-53.	2.1	24
8	Piet. , 2007, , .		23
9	Topological elementary equivalence of closed semi-algebraic sets in the real plane. <i>Journal of Symbolic Logic</i> , 2000, 65, 1530-1555.	0.4	20
10	Classes of Spatio-Temporal Objects and their Closure Properties. <i>Annals of Mathematics and Artificial Intelligence</i> , 2003, 39, 431-461.	0.9	20
11	On topological elementary equivalence of spatial databases. <i>Lecture Notes in Computer Science</i> , 1997, , 432-446.	1.0	19
12	Kinetic prisms: incorporating acceleration limits into space-time prisms. <i>International Journal of Geographical Information Science</i> , 2017, 31, 2164-2194.	2.2	18
13	Aggregation languages for moving object and places of interest. , 2008, , .		14
14	A Data Model for Moving Objects Supporting Aggregation. , 2007, , .		12
15	A data model and query language for spatio-temporal decision support. <i>Geoinformatica</i> , 2011, 15, 455-496.	2.0	12
16	On Capturing First-Order Topological Properties of Planar Spatial Databases. <i>Lecture Notes in Computer Science</i> , 1999, , 187-198.	1.0	12
17	Uncertainty-Based Map Matching: The Space-Time Prism and k-Shortest Path Algorithm. <i>ISPRS International Journal of Geo-Information</i> , 2016, 5, 204.	1.4	11
18	Analytical queries on semantic trajectories using graph databases. <i>Transactions in GIS</i> , 2019, 23, 1078-1101.	1.0	10

#	ARTICLE	IF	CITATIONS
19	A characterization of first-order topological properties of planar spatial data. Journal of the ACM, 2006, 53, 273-305.	1.8	9
20	Linearization and Completeness Results for Terminating Transitive Closure Queries on Spatial Databases. SIAM Journal on Computing, 2006, 35, 1386-1439.	0.8	8
21	On the decidability of termination of query evaluation in transitive-closure logics for polynomial constraint databases. Theoretical Computer Science, 2005, 336, 125-151.	0.5	7
22	Kinetic space-time prisms. , 2011, , .		7
23	Software Engineering and complexity in effective Algebraic Geometry. Journal of Complexity, 2013, 29, 92-138.	0.7	7
24	The geometry of space-time prisms with uncertain anchors. International Journal of Geographical Information Science, 2017, 31, 1722-1748.	2.2	6
25	Affine-Invariant Triangulation of Spatio-Temporal Data with an Application to Image Retrieval. ISPRS International Journal of Geo-Information, 2017, 6, 100.	1.4	6
26	Space-time prisms on a sphere with applications to long-distance movement. International Journal of Geographical Information Science, 2020, 34, 1980-2003.	2.2	6
27	A Theory of Spatio-temporal Database Queries. Lecture Notes in Computer Science, 2002, , 198-212.	1.0	6
28	An algebra for OLAP. Intelligent Data Analysis, 2017, 21, 1267-1300.	0.4	5
29	Online analytical processing on graph data. Intelligent Data Analysis, 2020, 24, 515-541.	0.4	5
30	Towards the Internet of Water: Using graph databases for hydrological analysis on the Flemish river system. Transactions in GIS, 2021, 25, 2907-2938.	1.0	4
31	Time-Series-Based Queries on Stable Transportation Networks Equipped with Sensors. ISPRS International Journal of Geo-Information, 2021, 10, 531.	1.4	4
32	Topological formulation of termination properties of iterates of functions. Information Processing Letters, 2004, 89, 31-35.	0.4	3
33	First-order complete and computationally complete query languages for spatio-temporal databases. ACM Transactions on Computational Logic, 2008, 9, 1-51.	0.7	3
34	Topological Queries. , 2000, , 231-273.		3
35	Introduction to constraint databases. SIGMOD Record, 2002, 31, 35-36.	0.7	2
36	A note on measuring the volume of space-time prisms and the area of their spatial projections. Transactions in GIS, 2020, 24, 1427-1436.	1.0	2

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37	A database system for querying of river networks: facilitating monitoring and prediction applications. <i>Water Science and Technology: Water Supply</i> , 2022, 22, 2832-2846.	1.0	2
38	First-Order Languages Expressing Constructible Spatial Database Queries. <i>SIAM Journal on Computing</i> , 2007, 36, 1570-1599.	0.8	1
39	Efficient evaluation of specific queries in constraint databases. <i>Information Processing Letters</i> , 2011, 111, 941-944.	0.4	1
40	Visit Probability in Space-Time Prisms Based on Binomial Random Walk. <i>ISPRS International Journal of Geo-Information</i> , 2020, 9, 555.	1.4	1
41	Deciding the point-to-fixed-point problem for skew tent maps on an interval. <i>Journal of Computer and System Sciences</i> , 2021, 115, 113-120.	0.9	1
42	A State-of-the-Art in Spatio-Temporal Data Warehousing, OLAP and Mining. , 0, , 200-236.		1
43	An Intelligent Man-Machine Dialogue System Based on AI Planning. <i>Applied Intelligence</i> , 1998, 8, 235-245.	3.3	0
44	Report on the 1st International Symposium on the Applications of Constraint Databases (CDB'04). <i>SIGMOD Record</i> , 2005, 34, 62-64.	0.7	0
45	Some lower bounds for the complexity of the linear programming feasibility problem over the reals. <i>Journal of Complexity</i> , 2009, 25, 25-37.	0.7	0
46	Quantifier elimination for elementary geometry and elementary affine geometry. <i>Mathematical Logic Quarterly</i> , 2012, 58, 399-416.	0.2	0
47	Evaluating geometric queries using few arithmetic operations. <i>Applicable Algebra in Engineering, Communications and Computing</i> , 2012, 23, 179-193.	0.3	0
48	Algebraic and Geometric Characterizations of Double-Cross Matrices of Polylines. <i>ISPRS International Journal of Geo-Information</i> , 2016, 5, 152.	1.4	0
49	On the realisability of double-cross matrices by polylines in the plane. <i>Journal of Computer and System Sciences</i> , 2017, 86, 117-135.	0.9	0
50	A Dynamic Data Structure to Efficiently Find the Points below a Line and Estimate Their Number. <i>ISPRS International Journal of Geo-Information</i> , 2017, 6, 82.	1.4	0
51	Topological elementary equivalence of regular semi-algebraic sets in three-dimensional space. <i>Mathematical Logic Quarterly</i> , 2018, 64, 435-463.	0.2	0
52	Affine-invariant querying of spatial data using a triangle-based logic. <i>GeoInformatica</i> , 2020, 24, 849-879.	2.0	0
53	A State-of-the-Art in Spatio-Temporal Data Warehousing, OLAP and Mining. , 2013, , 2021-2056.		0