

Bart Kuijpers

List of Publications by Year in descending order

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53
papers

639
citations

759055

12
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23
g-index

54
all docs

54
docs citations

54
times ranked

398
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Towards the Internet of Water: Using graph databases for hydrological analysis on the Flemish river system. <i>Transactions in GIS</i> , 2021, 25, 2907-2938.	1.0	4
4	Time-Series-Based Queries on Stable Transportation Networks Equipped with Sensors. <i>ISPRS International Journal of Geo-Information</i> , 2021, 10, 531.	1.4	4
5	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
6	Affine-invariant querying of spatial data using a triangle-based logic. <i>Geoinformatica</i> , 2020, 24, 849-879.	2.0	0
7	A note on measuring the volume of space-time prisms and the area of their spatial projections. <i>Transactions in GIS</i> , 2020, 24, 1427-1436.	1.0	2
8	Online analytical processing on graph data. <i>Intelligent Data Analysis</i> , 2020, 24, 515-541.	0.4	5
9	Space-time prisms on a sphere with applications to long-distance movement. <i>International Journal of Geographical Information Science</i> , 2020, 34, 1980-2003.	2.2	6
10	Analytical queries on semantic trajectories using graph databases. <i>Transactions in GIS</i> , 2019, 23, 1078-1101.	1.0	10
11	Topological elementary equivalence of regular semi-algebraic sets in three-dimensional space. <i>Mathematical Logic Quarterly</i> , 2018, 64, 435-463.	0.2	0
12	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
13	The geometry of space-time prisms with uncertain anchors. <i>International Journal of Geographical Information Science</i> , 2017, 31, 1722-1748.	2.2	6
14	An algebra for OLAP. <i>Intelligent Data Analysis</i> , 2017, 21, 1267-1300.	0.4	5
15	Kinetic prisms: incorporating acceleration limits into space-time prisms. <i>International Journal of Geographical Information Science</i> , 2017, 31, 2164-2194.	2.2	18
16	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
17	Affine-Invariant Triangulation of Spatio-Temporal Data with an Application to Image Retrieval. <i>ISPRS International Journal of Geo-Information</i> , 2017, 6, 100.	1.4	6
18	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

#	ARTICLE	IF	CITATIONS
19	Algebraic and Geometric Characterizations of Double-Cross Matrices of Polylines. ISPRS International Journal of Geo-Information, 2016, 5, 152.	1.4	0
20	Software Engineering and complexity in effective Algebraic Geometry. Journal of Complexity, 2013, 29, 92-138.	0.7	7
21	A State-of-the-Art in Spatio-Temporal Data Warehousing, OLAP and Mining. , 2013, , 2021-2056.		0
22	Quantifier elimination for elementary geometry and elementary affine geometry. Mathematical Logic Quarterly, 2012, 58, 399-416.	0.2	0
23	Evaluating geometric queries using few arithmetic operations. Applicable Algebra in Engineering, Communications and Computing, 2012, 23, 179-193.	0.3	0
24	A data model and query language for spatio-temporal decision support. Geoinformatica, 2011, 15, 455-496.	2.0	12
25	Efficient evaluation of specific queries in constraint databases. Information Processing Letters, 2011, 111, 941-944.	0.4	1
26	Kinetic space-time prisms. , 2011, , .		7
27	An analytic solution to the alibi query in the space-time prisms model for moving object data. International Journal of Geographical Information Science, 2011, 25, 293-322.	2.2	27
28	Trajectory databases: Data models, uncertainty and complete query languages. Journal of Computer and System Sciences, 2010, 76, 538-560.	0.9	45
29	Anchor uncertainty and space-time prisms on road networks. International Journal of Geographical Information Science, 2010, 24, 1223-1248.	2.2	76
30	Spatial aggregation: Data model and implementation. Information Systems, 2009, 34, 551-576.	2.4	32
31	Some lower bounds for the complexity of the linear programming feasibility problem over the reals. Journal of Complexity, 2009, 25, 25-37.	0.7	0
32	ST-DMQL: A Semantic Trajectory Data Mining Query Language. International Journal of Geographical Information Science, 2009, 23, 1245-1276.	2.2	74
33	Modeling uncertainty of moving objects on road networks via space-time prisms. International Journal of Geographical Information Science, 2009, 23, 1095-1117.	2.2	89
34	First-order complete and computationally complete query languages for spatio-temporal databases. ACM Transactions on Computational Logic, 2008, 9, 1-51.	0.7	3
35	Aggregation languages for moving object and places of interest. , 2008, , .		14
36	Piet. , 2007, , .		23

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37	A Data Model for Moving Objects Supporting Aggregation. , 2007, , .		12
38	First-Order Languages Expressing Constructible Spatial Database Queries. SIAM Journal on Computing, 2007, 36, 1570-1599.	0.8	1
39	Linearization and Completeness Results for Terminating Transitive Closure Queries on Spatial Databases. SIAM Journal on Computing, 2006, 35, 1386-1439.	0.8	8
40	A characterization of first-order topological properties of planar spatial data. Journal of the ACM, 2006, 53, 273-305.	1.8	9
41	Report on the 1st International Symposium on the Applications of Constraint Databases (CDB'04). SIGMOD Record, 2005, 34, 62-64.	0.7	0
42	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
43	Topological formulation of termination properties of iterates of functions. Information Processing Letters, 2004, 89, 31-35.	0.4	3
44	Classes of Spatio-Temporal Objects and their Closure Properties. Annals of Mathematics and Artificial Intelligence, 2003, 39, 431-461.	0.9	20
45	Introduction to constraint databases. SIGMOD Record, 2002, 31, 35-36.	0.7	2
46	A Theory of Spatio-temporal Database Queries. Lecture Notes in Computer Science, 2002, , 198-212.	1.0	6
47	Topological elementary equivalence of closed semi-algebraic sets in the real plane. Journal of Symbolic Logic, 2000, 65, 1530-1555.	0.4	20
48	Topological Queries. , 2000, , 231-273.		3
49	On Capturing First-Order Topological Properties of Planar Spatial Databases. Lecture Notes in Computer Science, 1999, , 187-198.	1.0	12
50	An Intelligent Man-Machine Dialogue System Based on AI Planning. Applied Intelligence, 1998, 8, 235-245.	3.3	0
51	Data models and query languages for spatial databases. Data and Knowledge Engineering, 1998, 25, 29-53.	2.1	24
52	On topological elementary equivalence of spatial databases. Lecture Notes in Computer Science, 1997, , 432-446.	1.0	19
53	A State-of-the-Art in Spatio-Temporal Data Warehousing, OLAP and Mining. , 0, , 200-236.		1