Floris Geerts

List of Publications by Year
in descending order

79 papers	1,955 citations	430874 18 h-index	315739 38 g-index
84 all docs	84 docs citations	84 times ranked	843 citing authors

#	Article	IF	Citations
1	On the Expressive Power of Linear Algebra on Graphs. Theory of Computing Systems, 2021, 65, 179-239.	1.1	3
2	Expressive Power of Linear Algebra Query Languages. , 2021, , .		2
3	Matrix Query Languages. SIGMOD Record, 2021, 50, 6-19.	1.2	4
4	Cleaning Data with Forbidden Itemsets. IEEE Transactions on Knowledge and Data Engineering, 2020, 32, 1489-1501.	5.7	12
5	Cleaning data with Llunatic. VLDB Journal, 2020, 29, 867-892.	4.1	15
6	Data Quality and Explainable AI. Journal of Data and Information Quality, 2020, 12, 1-9.	2.1	25
7	On the Expressive Power of Query Languages for Matrices. ACM Transactions on Database Systems, 2019, 44, 1-31.	2.8	15
8	Revisiting Conditional Functional Dependency Discovery: Splitting the â€œCâ€•from the â€œFDâ€• Lecture Notes in Computer Science, 2019, , 552-568.	1.3	4
9	MATLANG. SIGMOD Record, 2019, 48, 60-67.	1.2	2
10	Bounded Query Rewriting Using Views. ACM Transactions on Database Systems, 2018, 43, 1-46.	2.8	4
11	Topological elementary equivalence of regular semiâ€•algebraic sets in threeâ€•dimensional space. Mathematical Logic Quarterly, 2018, 64, 435-463.	0.2	0
12	Explaining repaired data with CFDs. Proceedings of the VLDB Endowment, 2018, 11, 1387-1399.	3.8	14
13	Constraint Query Languages. , 2018, , 586-591.		0
14	First-order under-approximations of consistent query answers. International Journal of Approximate Reasoning, 2017, 83, 337-355.	3.3	5
15	Constraint Query Languages. , 2017, , 1-5.		0
16	Database Theory Column Report on PODS 2017. ACM SIGACT News, 2017, 48, 75-77.	0.1	0
17	Bounded Query Rewriting Using Views. , 2016, , .		8
18	Capturing Missing Tuples and Missing Values. ACM Transactions on Database Systems, 2016, 41, 1-47.	2.8	6

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19	Bounded correlation clustering. International Journal of Data Science and Analytics, 2016, 1, 17-35.	4.1	2
20	Algebraic Structures for Capturing the Provenance of SPARQL Queries. Journal of the ACM, 2016, 63, 1-63.	2.2	18
21	Querying Big Data by Accessing Small Data. , 2015, , .		28
22	On recommendation problems beyond points of interest. Information Systems, 2015, 48, 64-88.	3.6	7
23	First-Order Under-Approximations of Consistent Query Answers. Lecture Notes in Computer Science, 2015, , 354-367.	1.3	2
24	On scale independence for querying big data. , 2014, , .		32
25	Interactive correlation clustering. , 2014, , .		3
26	That's all folks!. Proceedings of the VLDB Endowment, 2014, 7, 1565-1568.	3.8	34
27	Mapping and cleaning. , 2014, , .		31
28	Conflict resolution with data currency and consistency. Journal of Data and Information Quality, 2014, 5, 1-37.	2.1	27
29	On the data complexity of relative information completeness. Information Systems, 2014, 45, 18-34.	3.6	3
30	Detecting Errors in Numeric Attributes. Lecture Notes in Computer Science, 2014, , 125-137.	1.3	6
31	Generating, Sampling and Counting Subclasses of Regular Tree Languages. Theory of Computing Systems, 2013, 52, 542-585.	1.1	2
32	Inferring data currency and consistency for conflict resolution. , 2013, , .		14
33	The LLUNATIC data-cleaning framework. Proceedings of the VLDB Endowment, 2013, 6, 625-636.	3.8	117
34	Algebraic structures for capturing the provenance of SPARQL queries. , 2013, , .		20
35	On the Complexity of Package Recommendation Problems. SIAM Journal on Computing, 2013, 42, 1940-1986.	1.0	13
36	Data Quality Problems beyond Consistency and Deduplication. Lecture Notes in Computer Science, 2013, , 237-249.	1.3	11

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37	Looking at the World Thru Colored Glasses. Lecture Notes in Computer Science, 2013, , 259-272.	1.3	0
38	On the Complexity of View Update Analysis and Its Application to Annotation Propagation. IEEE Transactions on Knowledge and Data Engineering, 2012, 24, 506-519.	5.7	32
39	On the complexity of package recommendation problems. , 2012, , .		17
40	Determining the Currency of Data. ACM Transactions on Database Systems, 2012, 37, 1-46.	2.8	43
41	Foundations of Data Quality Management. Synthesis Lectures on Data Management, 2012, 4, 1-217.	0.6	88
42	View determinacy for preserving selected information in data transformations. Information Systems, 2012, 37, 1-12.	3.6	14
43	Relational completeness of query languages for annotated databases. Journal of Computer and System Sciences, 2011, 77, 491-504.	1.2	4
44	Determining the currency of data. , 2011, , .		18
45	Discovering Conditional Functional Dependencies. IEEE Transactions on Knowledge and Data Engineering, 2011, 23, 683-698.	5.7	158
46	On database query languages for K-relations. Journal of Applied Logic, 2010, 8, 173-185.	1.1	48
47	Relative information completeness. ACM Transactions on Database Systems, 2010, 35, 1-44.	2.8	28
48	Capturing missing tuples and missing values. , 2010, , .		35
49	Static analysis of schema-mappings ensuring oblivious termination. , 2010, , .		15
50	Detecting inconsistencies in distributed data. , 2010, , .		27
51	Discovering Conditional Functional Dependencies. Proceedings - International Conference on Data Engineering, 2009, , .	0.0	62
52	Conditional Dependencies: A Principled Approach to Improving Data Quality. Lecture Notes in Computer Science, 2009, , 8-20.	1.3	9
53	Relative information completeness. , 2009, , .		19
54	Constraint Query Languages. , 2009, , 454-458.		1

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55	XPath satisfiability in the presence of DTDs. Journal of the ACM, 2008, 55, 1-79.	2.2	113
56	A revival of integrity constraints for data cleaning. Proceedings of the VLDB Endowment, 2008, 1, 1522-1523.	3.8	26
57	First-order complete and computationally complete query languages for spatio-temporal databases. ACM Transactions on Computational Logic, 2008, 9, 1-51.	0.9	3
58	Increasing the Expressivity of Conditional Functional Dependencies without Extra Complexity. , 2008, , .		37
59	Conditional functional dependencies for capturing data inconsistencies. ACM Transactions on Database Systems, 2008, 33, 1-48.	2.8	257
60	Semandaq. Proceedings of the VLDB Endowment, 2008, 1, 1460-1463.	3.8	22
61	Relational Completeness of Query Languages for Annotated Databases. Lecture Notes in Computer Science, 2007, , 127-137.	1.3	6
62	Real Algebraic Geometry and Constraint Databases. , 2007, , 799-856.		2
63	Linearization and Completeness Results for Terminating Transitive Closure Queries on Spatial Databases. SIAM Journal on Computing, 2006, 35, 1386-1439.	1.0	8
64	HaploRec: efficient and accurate large-scale reconstruction of haplotypes. BMC Bioinformatics, 2006, 7, 542.	2.6	42
65	On-line maintenance of simplified weighted graphs for efficient distance queries. , 2006, , .		1
66	Annotation propagation revisited for key preserving views. , 2006, , .		33
67	iMONDRIAN: A Visual Tool to Annotate and Query Scientific Databases. Lecture Notes in Computer Science, 2006, , 1168-1171.	1.3	7
68	On the decidability of termination of query evaluation in transitive-closure logics for polynomial constraint databases. Theoretical Computer Science, 2005, 336, 125-151.	0.9	7
69	N-dimensional versus (Nâ€"1)-dimensional connectivity testing of first-order queries to semi-algebraic sets. Acta Informatica, 2005, 42, 43-56.	0.5	0
70	XPath satisfiability in the presence of DTDs. , 2005, , .		73
71	Satisfiability of XPath Queries with Sibling Axes. Lecture Notes in Computer Science, 2005, , 122-137.	1.3	38
72	Tiling Databases. Lecture Notes in Computer Science, 2004, , 278-289.	1.3	135

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73	Topological formulation of termination properties of iterates of functions. Information Processing Letters, 2004, 89, 31-35.	0.6	3
74	Moving Objects and Their Equations of Motion. Lecture Notes in Computer Science, 2004, , 40-51.	1.3	4
75	Expressing the box cone radius in the relational calculus with real polynomial constraints. Discrete and Computational Geometry, 2003, 30, 607-622.	0.6	4
76	Deciding Termination of Query Evaluation in Transitive-Closure Logics for Constraint Databases. Lecture Notes in Computer Science, 2003, , 190-206.	1.3	3
77	Linear Approximation of Semi-algebraic Spatial Databases Using Transitive Closure Logic, in Arbitrary Dimension. Lecture Notes in Computer Science, 2002, , 182-197.	1.3	2
78	Linear approximation of planar spatial databases using transitive-closure logic. , 2000, , .		11
79	Expressing topological connectivity of spatial databases. Lecture Notes in Computer Science, 2000, , 224-238.	1.3	6