Sven Groppe

List of Publications by Year
in descending order

78 papers	430 citations	1307594 7 h-index	1281871 11 g-index
81 all docs	81 docs citations	81 times ranked	239 citing authors

#	Article	IF	Citations
1	Data Management and Query Processing in Semantic Web Databases. , 2011, , .		30
2	Embedding SPARQL into XQuery/XSLT. , 2008, , .		26
3	A SPARQL Engine for Streaming RDF Data. , 2007, , .		22
4	Hardware-accelerated join processing in large Semantic Web databases with FPGAs. , 2013, , .		18
5	Semantic Models for Scalable Search in the Internet of Things. Journal of Sensor and Actuator Networks, 2013, 2, 172-195.	3.9	18
6	LuposDate. , 2009, , .		17
7	Parallelizing join computations of SPARQL queries for large semantic web databases. , 2011, , .		16
8	A P2P Semantic Query Framework for the Internet of Things. PIK - Praxis Der Informationsverarbeitung Und Kommunikation, 2013, 36, .	0.2	15
9	Efficient processing of SPARQL joins in memory by dynamically restricting triple patterns. , 2009, , .		13
10	Visual query system for analyzing social semantic web. , 2011, , .		13
11	Filtering unsatisfiable XPath queries. Data and Knowledge Engineering, 2008, 64, 134-169.	3.4	12
12	Reformulating XPath queries and XSLT queries on XSLT views. Data and Knowledge Engineering, 2006, 57, 64-110.	3.4	10
13	Emergent models, frameworks, and hardware technologies for Big data analytics. Journal of Supercomputing, 2020, 76, 1800-1827.	3.6	10
14	Efficient XML Usage within Wireless Sensor Networks. , 2008, , .		10
15	XPath query transformation based on XSLT stylesheets. , 2003, , .		9
16	Parallel and Pipelined Filter Operator for Hardware-Accelerated Operator Graphs in Semantic Web Databases. , 2014, , .		9
17	Optimizing Transaction Schedules on Universal Quantum Computers via Code Generation for Groverâ€™s Search Algorithm. , 2021, , .		9
18	Satisfiability-Test, Rewriting and Refinement of Usersâ€™ XPath Queries According to XML Schema Definitions. Lecture Notes in Computer Science, 2006, , 22-38.	1.3	9

#	Article	IF	Citations
19	A Prototype of a Schema-Based XPath Satisfiability Tester. Lecture Notes in Computer Science, 2006, , 93-103.	1.3	9
20	Translating XPath Queries into SPARQL Queries. , 2007, , 9-10.		9
21	Avoiding blocking by scheduling transactions using quantum annealing. , 2020, , .		8
22	Output schemas of XSLT stylesheets and their applications. Information Sciences, 2008, 178, 3989-4018.	6.9	7
23	Integrating standardized transaction protocols in service-oriented wireless sensor networks. , 2009, , .		7
24	Hybrid FPGA approach for a B⁺ tree in a Semantic Web database system. , 2015, , .		7
25	DySSCo - A Protocol for Dynamic Self-Organizing Service Coverage. Lecture Notes in Computer Science, 2008, , 109-120.	1.3	7
26	Bringing the XML and Semantic Web Worlds Closer: Transforming XML into RDF and Embedding XPath into SPARQL. Lecture Notes in Business Information Processing, 2009, , 31-45.	1.0	7
27	Hybrid Multi-model Multi-platform (HM3P) Databases. , 2020, , .		7
28	Optimizing the execution of XSLT stylesheets for querying transformed XML data. Knowledge and Information Systems, 2009, 18, 331-391.	3.2	6
29	External sorting for index construction of large semantic web databases. , 2010, , .		6
30	Accelerated join evaluation in Semantic Web databases by using FPGAs. Concurrency Computation Practice and Experience, 2016, 28, 2031-2051.	2.2	6
31	Xobe <inf>Sensor Networks</inf>: Integrating XML in sensor network programming. , 2008, , .		5
32	Analysis and Comparison of Atomic Commit Protocols for Adaptive Usage in Wireless Sensor Networks. , 2010, , .		5
33	Transforming XSLT stylesheets into XQuery expressions and vice versa. Computer Languages, Systems and Structures, 2011, 37, 76-111.	1.4	5
34	Identifying homogenous reconfigurable regions in heterogeneous FPGAs for module relocation. , 2014, , .		5
35	An optimized radix-tree for hardware-accelerated dictionary generation for semantic web databases. , 2015, , .		5
36	Enhancing data quality and process optimization for smart manufacturing lines in industry 4.0 scenarios. , 2022, , .		5

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37	SWOBE - embedding the semantic web languages RDF, SPARQL and SPARUL into java for guaranteeing type safety, for checking the satisfiability of queries and for the determination of query result types. , 2009, , .		4
38	Automated composition and execution of hardware-accelerated operator graphs. , 2015, , .		4
39	A Prototype for Translating XQuery Expressions into XSLT Stylesheets. Lecture Notes in Computer Science, 2005, , 238-253.	1.3	4
40	XML data management and XPath evaluation in wireless sensor networks. , 2009, , .		4
41	Towards energy efficient XPath evaluation in wireless sensor networks. , 2009, , .		3
42	Efficient XML data and query integration in the wireless sensor network engineering process. International Journal of Web Information Systems, 2010, 6, 319-358.	2.4	3
43	Semi-static operator graphs for accelerated query execution on FPGAs. Microprocessors and Microsystems, 2017, 53, 178-189.	2.8	3
44	Hardware-Accelerated Radix-Tree Based String Sorting for Big Data Applications. Lecture Notes in Computer Science, 2017, , 47-58.	1.3	3
45	Artificial Intelligence in Global Epidemics, Part 1. New Generation Computing, 2021, 39, 483-485.	3.3	3
46	DACS: A dynamic approximative caching scheme for Wireless Sensor Networks. , 2010, , .		2
47	Accelerating large semantic web databases by parallel join computations of SPARQL queries. ACM SIGAPP Applied Computing Review: A Publication of the Special Interest Group on Applied Computing, 2011, 11, 60-70.	0.9	2
48	Emerging Solutions in Big Data and Cloud Technologies for Mobile Networks. Mobile Networks and Applications, 2019, 24, 1015-1017.	3.3	2
49	Hardware-aided update acceleration in a hybrid Semantic Web database system. Journal of Supercomputing, 2020, 76, 7961-7984.	3.6	2
50	How to Determine Output Schemas of XQuery Queries. , 2007, , .		1
51	Simplifying XPath queries for optimization with regard to the elimination of intersect and except operators. Data and Knowledge Engineering, 2008, 65, 198-222.	3.4	1
52	Stream-Based XML Template Compression for Wireless Sensor Network Data Management. , 2010, , .		1
53	Analysis and comparison of concurrency control protocols for wireless sensor networks. , 2011, , .		1
54	An architectural template for composing application specific datapaths at runtime. , 2015, , .		1

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55	Editorial: Mobile Networks in the Era of Big Data. Mobile Networks and Applications, 2019, 24, 1135-1138.	3.3	1
56	Search & Update Optimization of a B $$^+$$ Tree in a Hardware Aided Semantic Web Database System. Lecture Notes in Electrical Engineering, 2018, , 172-182.	0.4	1
57	Shifting Predicates to Inner Sub-expressions for XQuery Optimization. Lecture Notes in Computer Science, 2009, , 67-79.	1.3	1
58	Optimization of Bounded Continuous Search Queries Based on Ranking Distributions. , 2007, , 26-37.		1
59	Result Merging Technique for Answering XPath Query over XSLT Transformed Data. IEEE Transactions on Knowledge and Data Engineering, 2009, 21, 1328-1342.	5.7	0
60	Monitoring eBay auctions by querying RDF streams. , 2011, , .		0
61	Adaptive Service Migration in Wireless Sensor Networks. , 2011, , .		0
62	Eliminating the XML overhead in embedded XML languages. , 2013, , .		0
63	Hardware-Accelerated Index Construction for Semantic Web. , 2018, , .		0
64	A Platform for Interactive Data Science with Apache Spark for On-premises Infrastructure. , 2021, , .		0
65	Special issue on the technologies and applications of big data. Wireless Networks, 2021, 27, 5425-5428.	3.0	0
66	Logical Optimization. , 2011, , 79-102.		0
67	Comparison of the XML and Semantic Web Worlds. , 2011, , 219-250.		0
68	Query Processing Overview. , 2011, , 67-78.		0
69	Semantic Web. , 2011, , 7-34.		0
70	Embedded Languages. , 2011, , 203-217.		0
71	Physical Optimization. , 2011, , 103-153.		0
72	Visual Query Languages. , 2011, , 191-201.		0

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73	External Sorting and B+-Trees. , 2011, , 35-65.		0
74	Inference. , 2011, , 177-189.		0
75	Parallel Databases. , 2011, , 163-175.		0
76	Streams. , 2011, , 155-162.		0
77	Incremental Validation of String-Based XML Data in Databases, File Systems, and Streams. Lecture Notes in Computer Science, 2007, , 314-329.	1.3	0
78	XSLT. , 0, , 108-135.		0