Kai-Uwe Sattler

List of Publications by Year
in descending order

51 papers	342 citations	1163117 8 h-index	996975 15 g-index
62 all docs	62 docs citations	62 times ranked	268 citing authors

#	Article	IF	Citations
1	Juggler: Autonomous Cost Optimization and Performance Prediction of Big Data Applications. , 2022, , .		8
2	PatchIndex: exploiting approximate constraints in distributed databases. Distributed and Parallel Databases, 2021, 39, 833-853.	1.6	2
3	Updatable Materialization of Approximate Constraints. , 2021, , .		1
4	What is in the KGQA Benchmark Datasets? Survey on Challenges in Datasets for Question Answering on Knowledge Graphs. Journal on Data Semantics, 2021, 10, 241.	2.0	6
5	Joins on high-bandwidth memory: a new level in the memory hierarchy. VLDB Journal, 2020, 29, 797-817.	4.1	5
6	PatchIndex - Exploiting Approximate Constraints in Self-managing Databases. , 2020, , .		3
7	Faster & strong: string dictionary compression using sampling and fast vectorized decompression. VLDB Journal, 2020, 29, 1263-1285.	4.1	2
8	Selective Caching: A Persistent Memory Approach for Multi-Dimensional Index Structures. , 2020, , .		2
9	A gray-box modeling methodology for runtime prediction of Apache Spark jobs. Distributed and Parallel Databases, 2020, 38, 819-839.	1.6	7
10	Data structure primitives on persistent memory. , 2020, , .		8
11	Parallelization of Massive Multiway Stream Joins on Manycore CPUs. Lecture Notes in Computer Science, 2020, , 5-16.	1.3	0
12	Fast & Strong. , 2019, , .		10
13	Adaptive Partitioning and Order-Preserved Merging of Data Streams. Lecture Notes in Computer Science, 2019, , 267-282.	1.3	0
14	Joins in a heterogeneous memory hierarchy. , 2018, , .		4
15	Cost-Based Sharing and Recycling ofÂ(Intermediate) Results in Dataflow Programs. Lecture Notes in Computer Science, 2018, , 185-199.	1.3	3
16	GPU-GIST â€" a case of generalized database indexing on modern hardware. IT - Information Technology, 2017, 59, 141-149.	0.9	0
17	Stream processing platforms for analyzing big dynamic data. IT - Information Technology, 2016, 58, 195-205.	0.9	0
18	Bitwise dimensional co-clustering for analytical workloads. VLDB Journal, 2016, 25, 291-316.	4.1	5

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19	Architekturen für verteiltes und paralleles Datenmanagement. EXamen Press, 2015, , 43-78.	0.0	0
20	Complex Event Processing on Linked Stream Data. Datenbank-Spektrum, 2015, 15, 119-129.	1.3	11
21	Database Backend as a Service: Automatic Generation, Deployment, and Management of Database Backends for Mobile Applications. Datenbank-Spektrum, 2014, 14, 85-95.	1.3	4
22	A hierarchical approach to resource awareness in DHTs for mobile data management. Pervasive and Mobile Computing, 2014, 15, 113-127.	3.3	1
23	Distributed Complex Event Processing in Sensor Networks. , 2013, , .		14
24	Automatic schema design for co-clustered tables. , 2013, , .		0
25	Monitoring and Autoscaling IaaS Clouds: A Case for Complex Event Processing on Data Streams. , 2013, , .		18
26	Efficient co-processor utilization in database query processing. Information Systems, 2013, 38, 1084-1096.	3.6	43
27	Query Processing of Pre-partitioned Data Using Sandwich Operators. Lecture Notes in Business Information Processing, 2013, , 76-92.	1.0	2
28	GiST scan acceleration using coprocessors. , 2012, , .		10
29	Scalable distributed indexing and query processing over Linked Data. Web Semantics, 2012, 10, 3-32.	2.9	15
30	Data3 -- A Kinect Interface for OLAP Using Complex Event Processing. , 2012, , .		11
31	Automatic Selection of Processing Units for Coprocessing in Databases. Lecture Notes in Computer Science, 2012, , 57-70.	1.3	8
32	Stream engines meet wireless sensor networks: cost-based planning and processing of complex queries in AnduIN. Distributed and Parallel Databases, 2011, 29, 151-183.	1.6	19
33	Integrating Cluster-Based Main-Memory Accelerators in Relational Data Warehouse Systems. Datenbank-Spektrum, 2011, 11, 101-110.	1.3	0
34	Online reorganization in read optimized MMDBS. , 2011, , .		2
35	Decentralized Change Detection in Wireless Sensor Network Using DFT-based Synopsis. , 2011, , .		2
36	Transactions a la carte - Implementation and Performance Evaluation of Transactional Support on Top of Amazon S3. , 2011, , .		2

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37	Comparing and Refining Gossip Protocols for Fault Tolerance in Wireless P2P Systems. , 2011, , .		3
38	Datenbank-Spektrum im Springer-Verlag. Datenbank-Spektrum, 2010, 10, 1-1.	1.3	2
39	Flashing databases. , 2010, , .		3
40	Power-aware data analysis in sensor networks. , 2010, , .		2
41	Speeding Up Queries in Column Stores. Lecture Notes in Computer Science, 2010, , 117-129.	1.3	25
42	Online Tuning of Aggregation Tables for OLAP. Proceedings - International Conference on Data Engineering, 2009, , .	0.0	4
43	In-network detection of anomaly regions in sensor networks with obstacles. Computer Science - Research and Development, 2009, 24, 153-170.	2.7	4
44	An extended transaction model for cooperative authoring of XML data. Computer Science - Research and Development, 2009, 24, 85-100.	2.7	3
45	Maintenance strategies for routing indexes. Distributed and Parallel Databases, 2009, 26, 231-259.	1.6	3
46	A research agenda for query processing in large-scale peer data management systems. Information Systems, 2008, 33, 597-610.	3.6	18
47	An extended cooperative transaction model for xml. , 2008, , .		3
48	Cooperative Data Management for XML Data. Lecture Notes in Computer Science, 2007, , 308-318.	1.3	1
49	Distributed Data Summaries for Approximate Query Processing in PDMS. Database Engineering and Application Symposium (IDEAS), Proceedings of the International, 2006, , .	0.0	12
50	Concept-based querying in mediator systems. VLDB Journal, 2005, 14, 97-111.	4.1	23
51	Selective caching: a persistent memory approach for multi-dimensional index structures. Distributed and Parallel Databases, 0, , 1.	1.6	0