Carlo Zaniolo

List of Publications by Year
in descending order

106	2,785	331670	361022
papers	citations	21 h-index	35 g-index

111	111	111	1110
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Multifaceted proteinâ€“protein interaction prediction based on Siamese residual RCNN. Bioinformatics, 2019, 35, i305-i314.	4.1	181
2	Efficient Structural Joins on Indexed XML Documents. , 2002, , 263-274.		174
3	Stable models and non-determinism in logic programs with negation. , 1990, , .		165
4	The database language GEM. , 1983, , .		136
5	Co-training Embeddings of Knowledge Graphs and Entity Descriptions for Cross-lingual Entity Alignment. , 2018, , .		136
6	Graceful database schema evolution. Proceedings of the VLDB Endowment, 2008, 1, 761-772.	3.8	106
7	Automating the database schema evolution process. VLDB Journal, 2013, 22, 73-98.	4.1	86
8	Big Data Analytics with Datalog Queries on Spark. , 2016, 2016, 1135-1149.		81
9	Expressing and optimizing sequence queries in database systems. ACM Transactions on Database Systems, 2004, 29, 282-318.	2.8	73
10	RFID Data Processing with a Data Stream Query Language. , 2007, , .		70
11	Optimization of sequence queries in database systems. , 2001, , .		66
12	On the implementation of a simple class of logic queries for databases. , 1986, , .		65
13	Verifying and Mining Frequent Patterns from Large Windows over Data Streams. , 2008, , .		61
14	Negation and aggregates in recursive rules: the LDL++ approach. Lecture Notes in Computer Science, 1993, , 204-221.	1.3	50
15	The generalized counting method for recursive logic queries. Theoretical Computer Science, 1986, 62, 187-220.	0.9	49
16	Managing and querying transaction-time databases under schema evolution. Proceedings of the VLDB Endowment, 2008, 1, 882-895.	3.8	48
17	A Unified Semantics for Active and Deductive Databases. Workshops in Computing, 1994, , 271-287.	0.4	46
18	Minimum and maximum predicates in logic programming. , 1991, , .		44

#	Article	IF	Citations
19	Non-determinism in deductive databases. Lecture Notes in Computer Science, 1991, , 129-146.	1.3	43
20	The deductive database system [Lscr][Dscr][Lscr]++. Theory and Practice of Logic Programming, 2003, 3, 61-94.	1.5	42
21	Database relations with null values. , 1982, , .		38
22	Fast and effective Big Data exploration by clustering. Future Generation Computer Systems, 2020, 102, 84-94.	7.5	36
23	Temporal queries and version management in XML-based document archives. Data and Knowledge Engineering, 2008, 65, 304-324.	3.4	35
24	Update rewriting and integrity constraint maintenance in a schema evolution support system. Proceedings of the VLDB Endowment, 2010, 4, 117-128.	3.8	34
25	XBiT: An XML-Based Bitemporal Data Model. Lecture Notes in Computer Science, 2004, , 810-824.	1.3	33
26	Extending the power of datalog recursion. VLDB Journal, 2013, 22, 471-493.	4.1	33
27	Fixpoint semantics and optimization of recursive Datalog programs with aggregates. Theory and Practice of Logic Programming, 2017, 17, 1048-1065.	1.5	29
28	Optimizing recursive queries with monotonic aggregates in DeALS. , 2015, , .		28
29	A fast and accurate algorithm for unsupervised clustering around centroids. Information Sciences, 2017, 400-401, 63-90.	6.9	28
30	ArchIS: an XML-based approach to transaction-time temporal database systems. VLDB Journal, 2008, 17, 1445-1463.	4.1	27
31	Efficient Complex Query Support for Multiversion XML Documents. Lecture Notes in Computer Science, 2002, , 161-178.	1.3	27
32	Greedy by choice. , 1992, , .		25
33	The PRISM Workwench: Database Schema Evolution without Tears. , 2009, , .		24
34	Optimal load shedding with aggregates and mining queries. , 2010, , .		24
35	Relational languages and data models for continuous queries on sequences and data streams. ACM Transactions on Database Systems, 2011, 36, 1-32.	2.8	24
36	Logical Foundations of Continuous Query Languages for Data Streams. Lecture Notes in Computer Science, 2012, , 177-189.	1.3	23

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37	MF-Join: Efficient Fuzzy String Similarity Join with Multi-level Filtering. , 2019, , .		21
38	Scaling up the performance of more powerful Datalog systems on multicore machines. VLDB Journal, 2017, 26, 229-248.	4.1	20
39	RaSQL. , 2019, , .		20
40	High-performance complex event processing over hierarchical data. ACM Transactions on Database Systems, 2013, 38, 1-39.	2.8	19
41	Deductive databases. SIGMOD Record, 1990, 19, 75-82.	1.2	19
42	An implementation of GEM. SIGMOD Record, 1984, 14, 286-295.	1.2	19
43	Semantics and Expressive Power of Nondeterministic Constructs in Deductive Databases. Journal of Computer and System Sciences, 2001, 62, 15-42.	1.2	18
44	Graph queries in a next-generation Datalog system. Proceedings of the VLDB Endowment, 2013, 6, 1258-1261.	3.8	18
45	From regular expressions to nested words. Proceedings of the VLDB Endowment, 2010, 3, 150-161.	3.8	18
46	Greedy algorithms in Datalog. Theory and Practice of Logic Programming, 2001, 1, 381-407.	1.5	17
47	An XML-Based Approach to Publishing and Querying the History of Databases. World Wide Web, 2005, 8, 233-259.	4.0	17
48	Supporting complex queries on multiversion XML documents. ACM Transactions on Internet Technology, 2006, 6, 53-84.	4.4	16
49	SMM: A data stream management system for knowledge discovery. , 2011, , .		15
50	SWiPE. , 2012, , .		15
51	Logic-Based User-Defined Aggregates for the Next Generation of Database Systems. Artificial Intelligence, 1999, , 401-426.	0.7	14
52	Temporal aggregation in active database rules. SIGMOD Record, 1997, 26, 440-451.	1.2	12
53	Pushing extrema aggregates to optimize logic queries. Information Systems, 2002, 27, 321-343.	3.6	12
54	On the unification of active databases and deductive databases. Lecture Notes in Computer Science, 1993, , 23-39.	1.3	12

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55	Scalable architecture and query optimization fortransaction-time DBs with evolving schemas. , 2010, , .		11
56	A declarative extension of horn clauses, and its significance for datalog and its applications. Theory and Practice of Logic Programming, 2013, 13, 609-623.	1.5	10
57	Mining Semantic Structures from Syntactic Structures in Free Text Documents. , 2014, , .		10
58	PRIMA. , 2009, , .		9
59	User-friendly temporal queries on historical knowledge bases. Information and Computation, 2018, 259, 444-459.	0.7	9
60	Bio-JOIE. , 2020, , .		9
61	Intelligent databases: Old challenges and new opportunities. Journal of Intelligent Information Systems, 1992, 1, 271-292.	3.9	8
62	GRAMMARS AND AUTOMATA TO OPTIMIZE CHAIN LOGIC QUERIES. International Journal of Foundations of Computer Science, 1999, 10, 349-372.	1.1	8
63	Event-Oriented Data Models and Temporal Queries in Transaction-Time Databases. , 2009, , .		8
64	K*SQL. , 2010, , .		8
65	Main memory evaluation of recursive queries on multicore machines. , 2014, , .		8
66	Logic and Databases: A History of Deductive Databases. Handbook of the History of Logic, 2014, , 571-627.	0.5	8
67	Neural Article Pair Modeling for Wikipedia Sub-article Matching. Lecture Notes in Computer Science, 2019, , 3-19.	1.3	8
68	QA 3 : A natural language approach to question answering over RDF data cubes. Semantic Web, 2019, 10, 587-604.	1.9	8
69	Nonmonotonic Reasoning in LDL++. , 2000, , 523-544.		8
70	BigData Applications from Graph Analytics to Machine Learning by Aggregates in Recursion. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 306, 273-279.	0.8	8
71	The logic of totally and partially ordered plans: a deductive database approach. Annals of Mathematics and Artificial Intelligence, 1997, 19, 27-58.	1.3	7
72	Extending stratified datalog to capture complexity classes ranging from ${cal P} to {cal QH}$. Acta Informatica, 2001, 37, 699-725.	0.5	7

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73	Improving the accuracy of continuous aggregates and mining queries on data streams under load shedding. International Journal of Business Intelligence and Data Mining, 2008, 3, 99.	0.2	7
74	IBminer. Proceedings of the VLDB Endowment, 2013, 6, 1330-1333.	3.8	7
75	Harvesting Domain Specific Ontologies from Text. , 2014, , .		7
76	Scaling-up reasoning and advanced analytics on BigData. Theory and Practice of Logic Programming, 2018, 18, 806-845.	1.5	7
77	Machine Learning of SPARQL Templates for Question Answering Over LinkedSpending. , 2019, , .		7
78	Preserving and Querying Histories of XML-Published Relational Databases. Lecture Notes in Computer Science, 2003, , 26-38.	1.3	7
79	Polynomial-time computable stable models. Annals of Mathematics and Artificial Intelligence, 1996, 17, 261-290.	1.3	6
80	Text-Mining, Structured Queries, and Knowledge Management on Web Document Corpora. SIGMOD Record, 2014, 43, 48-54.	1.2	6
81	RASQL: A Powerful Language and its System for Big Data Applications. , 2020, , .		6
82	Load Shedding for Window Joins on Multiple Data Streams. , 2007, , .		5
83	Discovering attribute and entity synonyms for knowledge integration and semantic web search. , 2013, , .		5
84	Ranking support for matched patterns over complex event streams: The CEPR system. , 2016, , .		5
85	Learn Smart with Less: Building Better Online Decision Trees with Fewer Training Examples. , 2019, , .		5
86	The database language GEM. SIGMOD Record, 1983, 13, 207-218.	1.2	4
87	Fast Lossless Frequent Itemset Mining in Data Streams using Crucial Patterns. , 2016, , .		4
88	ASTRO. , 2018, , .		4
89	A Case for Stale Synchronous Distributed Model for Declarative Recursive Computation. Theory and Practice of Logic Programming, 2019, 19, 1056-1072.	1.5	4
90	Formal semantics and high performance in declarative machine learning using Datalog. VLDB Journal, 2021, 30, 859-881.	4.1	4

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91	Efficient execution of recursive queries through controlled binding propagation. Lecture Notes in Computer Science, 1994, , 193-202.	1.3	4
92	Bridging relational database history and the web. , 2006, , .		3
93	Complex pattern matching in complex structures: The XSeq approach. , 2013, , .		2
94	Mining Semantics Structures from Syntactic Structures in Web Document Corpora. International Journal of Semantic Computing, 2014, 08, 461-489.	0.5	2
95	Quantification and Analysis of Scientific Language Variation Across Research Fields. , 2018, , .		2
96	Optimizing Parallel Recursive Datalog Evaluation on Multicore Machines. , 2022, , .		2
97	Efficient processing of declarative rule-based languages for Databases. , 1991, , 1-16.		1
98	A Deductive Database Approach to A.I. Planning. Journal of Intelligent Information Systems, 2003, 20, 215-253.	3.9	1
99	Demand-driven Cache Allocation Based on Context-aware Collaborative Filtering. , 2018, , .		1
100	Learning to Differentiate Between Main-articles and Sub-articles in Wikipedia. , 2019, , .		1
101	SEIZE: Runtime Inspection for Parallel Dataflow Systems. IEEE Transactions on Parallel and Distributed Systems, 2021, 32, 842-854.	5.6	1
102	KDDLog:Performance and Scalability in Knowledge Discovery by Declarative Queries with Aggregates. , 2021, , .		1
103	Extending Relational Query Languages for Data Streams. Data-centric Systems and Applications, 2016, , 361-386.	0.2	1
104	Expressivity and Accuracy of By-Example Structured Queries on Wikipedia. , 2015, , .		0
105	Max-Intensity: Detecting Competitive Advertiser Communities in Sponsored Search Market. , 2015, , .		0
106	Historical Queries on Wikipedia: A Usability-Driven Approach. , 2015, , .		0