

Keijo Heljanko

List of Publications by Citations

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Version: 2024-04-28

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

84
papers

1,077
citations

18
h-index

29
g-index

90
ext. papers

1,221
ext. citations

1.6
avg, IF

4.49
L-index

#	Paper	IF	Citations
84	Hadoop-BAM: directly manipulating next generation sequencing data in the cloud. <i>Bioinformatics</i> , 2012 , 28, 876-7	7.2	93
83	Linear Encodings of Bounded LTL Model Checking. <i>Logical Methods in Computer Science</i> , 2006 , 2,		93
82	Planning as satisfiability: parallel plans and algorithms for plan search. <i>Artificial Intelligence</i> , 2006 , 170, 1031-1080	3.6	75
81	SeqPig: simple and scalable scripting for large sequencing data sets in Hadoop. <i>Bioinformatics</i> , 2014 , 30, 119-20	7.2	71
80	Model checking of safety-critical software in the nuclear engineering domain. <i>Reliability Engineering and System Safety</i> , 2012 , 105, 104-113	6.3	42
79	Bounded LTL model checking with stable models. <i>Theory and Practice of Logic Programming</i> , 2003 , 3, 519-550	0.8	37
78	Incremental and Complete Bounded Model Checking for Full PLTL. <i>Lecture Notes in Computer Science</i> , 2005 , 98-111	0.9	35
77	Analyzing Context-Free Grammars Using an Incremental SAT Solver. <i>Lecture Notes in Computer Science</i> , 2008 , 410-422	0.9	28
76	Testing LTL formula translation into Büchi automata. <i>International Journal on Software Tools for Technology Transfer</i> , 2002 , 4, 57-70	1.3	27
75	CEFIoT: A fault-tolerant IoT architecture for edge and cloud 2018 ,		24
74	Simple Bounded LTL Model Checking. <i>Lecture Notes in Computer Science</i> , 2004 , 186-200	0.9	23
73	Simple Is Better: Efficient Bounded Model Checking for Past LTL. <i>Lecture Notes in Computer Science</i> , 2005 , 380-395	0.9	22
72	Bounded Reachability Checking with Process Semantics. <i>Lecture Notes in Computer Science</i> , 2001 , 218-232	0.9	22
71	Improving Dynamic Partial Order Reductions for Concolic Testing 2012 ,		21
70	Implementing LTL model checking with net unfoldings. <i>Lecture Notes in Computer Science</i> , 2001 , 37-56	0.9	21
69	Using Logic Programs with Stable Model Semantics to Solve Deadlock and Reachability Problems for 1-Safe Petri Nets. <i>Fundamenta Informaticae</i> , 1999 , 37, 247-268	1	18
68	BMC for Weak Memory Models: Relation Analysis for Compact SMT Encodings. <i>Lecture Notes in Computer Science</i> , 2019 , 355-365	0.9	18

67	Parallelisation of the Petri Net Unfolding Algorithm. <i>Lecture Notes in Computer Science</i> , 2002 , 371-385	0.9	18
66	IoTEF: A Federated Edge-Cloud Architecture for Fault-Tolerant IoT Applications. <i>Journal of Grid Computing</i> , 2020 , 18, 57-80	4.2	17
65	A New Unfolding Approach to LTL Model Checking. <i>Lecture Notes in Computer Science</i> , 2000 , 475-486	0.9	17
64	A symbolic model checking approach to verifying satellite onboard software. <i>Science of Computer Programming</i> , 2014 , 82, 44-55	1.1	16
63	Using unfoldings in automated testing of multithreaded programs 2012 ,		16
62	Coping With Strong Fairness. <i>Fundamenta Informaticae</i> , 2000 , 43, 175-193	1	16
61	Hardware model checking competition 2017 2017 ,		15
60	Prod 3.2 An advanced tool for efficient reachability analysis. <i>Lecture Notes in Computer Science</i> , 1997 , 472-475	0.9	14
59	Tarmo: A Framework for Parallelized Bounded Model Checking. <i>Electronic Proceedings in Theoretical Computer Science</i> , EPTCS ,14, 62-76		12
58	Classifying Process Instances Using Recurrent Neural Networks. <i>Lecture Notes in Business Information Processing</i> , 2019 , 313-324	0.6	11
57	Hardware Model Checking Competition 2014: An Analysis and Comparison of Model Checkers and Benchmarks. <i>Journal of Satisfiability, Boolean Modeling and Computation</i> , 2016 , 9, 135-172	1.2	11
56	Reinforcement learning of adaptive online rescheduling timing and computing time allocation. <i>Computers and Chemical Engineering</i> , 2020 , 141, 106994	4	11
55	The LIME Interface Specification Language and Runtime Monitoring Tool. <i>Lecture Notes in Computer Science</i> , 2009 , 93-100	0.9	11
54	Bounded Model Checking for Weak Alternating Büchi Automata. <i>Lecture Notes in Computer Science</i> , 2006 , 95-108	0.9	11
53	ViraPipe: scalable parallel pipeline for viral metagenome analysis from next generation sequencing reads. <i>Bioinformatics</i> , 2018 , 34, 928-935	7.2	10
52	BMC via on-the-fly determinization. <i>International Journal on Software Tools for Technology Transfer</i> , 2005 , 7, 89-101	1.3	10
51	Unfolding-Based Process Discovery. <i>Lecture Notes in Computer Science</i> , 2015 , 31-47	0.9	9
50	Synchronous counting and computational algorithm design. <i>Journal of Computer and System Sciences</i> , 2016 , 82, 310-332	1	9

49	Unfolding based automated testing of multithreaded programs. <i>Automated Software Engineering</i> , 2015 , 22, 475-515	1.5	8
48	Portability Analysis for Weak Memory Models porthos: OneToolfor allModels. <i>Lecture Notes in Computer Science</i> , 2017 , 299-320	0.9	8
47	Exploiting step semantics for efficient bounded model checking of asynchronous systems. <i>Science of Computer Programming</i> , 2012 , 77, 1095-1121	1.1	7
46	Bounded LTL Model Checking with Stable Models. <i>Lecture Notes in Computer Science</i> , 2001 , 200-212	0.9	7
45	Using Logic Programs with Stable Model Semantics to Solve Deadlock and Reachability Problems for 1-Safe Petri Nets. <i>Lecture Notes in Computer Science</i> , 1999 , 240-254	0.9	7
44	Solving parity games by a reduction to SAT. <i>Journal of Computer and System Sciences</i> , 2012 , 78, 430-440	1	6
43	Testing Multithreaded Programs with Contextual Unfoldings and Dynamic Symbolic Execution 2014		6
42	Efficient Model Checking of PSL Safety Properties 2010 ,		6
41	Exploiting Event Log Event Attributes in RNN Based Prediction. <i>Communications in Computer and Information Science</i> , 2019 , 405-416	0.3	6
40	Structural Feature Selection for Event Logs. <i>Lecture Notes in Business Information Processing</i> , 2018 , 20-35	0.6	6
39	Complexity results for checking distributed implementability		5
38	Parallel Encodings of Classical Planning as Satisfiability. <i>Lecture Notes in Computer Science</i> , 2004 , 307-319	0.9	5
37	Parametrised Modal Interface Automata. <i>Transactions on Embedded Computing Systems</i> , 2015 , 14, 1-25	1.8	5
36	BMC with Memory Models as Modules 2018 ,		5
35	Symbolic Step Encodings for Object Based Communicating State Machines. <i>Lecture Notes in Computer Science</i> , 2008 , 96-112	0.9	5
34	Increasing Confidence in Liveness Model Checking Results with Proofs. <i>Lecture Notes in Computer Science</i> , 2013 , 32-43	0.9	5
33	Asynchronous Multi-core Incremental SAT Solving. <i>Lecture Notes in Computer Science</i> , 2013 , 139-153	0.9	5
32	Concurrent Clause Strengthening. <i>Lecture Notes in Computer Science</i> , 2013 , 116-132	0.9	5

31	Assessing Big Data SQL Frameworks for Analyzing Event Logs 2016 ,		5
30	Minimizing Test Suites with Unfoldings of Multithreaded Programs. <i>Transactions on Embedded Computing Systems</i> , 2017 , 16, 1-24	1.8	4
29	Access Time Improvement Framework for Standardized IoT Gateways 2019 ,		4
28	Data-Driven Approach to Grade Change Scheduling Optimization in a Paper Machine. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 8281-8294	3.9	4
27	LCT: A Parallel Distributed Testing Tool for Multithreaded Java Programs. <i>Electronic Notes in Theoretical Computer Science</i> , 2013 , 296, 253-259	0.7	4
26	Specification coverage aided test selection		4
25	Dartagnan: Bounded Model Checking for Weak Memory Models (Competition Contribution). <i>Lecture Notes in Computer Science</i> , 2020 , 378-382	0.9	4
24	Model Checking with Finite Complete Prefixes Is PSPACE-Complete. <i>Lecture Notes in Computer Science</i> , 2000 , 108-122	0.9	4
23	Efficient model checking of PSL safety properties. <i>IET Computers and Digital Techniques</i> , 2011 , 5, 479	0.9	3
22	Parametrised Compositional Verification with Multiple Process and Data Types 2013 ,		2
21	Verifying large modular systems using iterative abstraction refinement. <i>Reliability Engineering and System Safety</i> , 2015 , 139, 120-130	6.3	2
20	2015 ,		2
19	When Do We Not Need Complex Assume-Guarantee Rules?. <i>Transactions on Embedded Computing Systems</i> , 2017 , 16, 1-25	1.8	2
18	Exploiting Event Log Event Attributes in RNN Based Prediction. <i>Lecture Notes in Business Information Processing</i> , 2020 , 67-85	0.6	2
17	Scalable Reference Genome Assembly from Compressed Pan-Genome Index with Spark. <i>Lecture Notes in Computer Science</i> , 2020 , 68-84	0.9	2
16	Lightweight State Capturing for Automated Testing of Multithreaded Programs. <i>Lecture Notes in Computer Science</i> , 2014 , 187-203	0.9	2
15	Experimental Comparison of Concolic and Random Testing for Java Card Applets. <i>Lecture Notes in Computer Science</i> , 2010 , 22-39	0.9	2
14	LCTD: Tests-Guided Proofs for C Programs on LLVM. <i>Lecture Notes in Computer Science</i> , 2016 , 927-929	0.9	2

13	Synergistic and Intelligent Process Optimization: First Results and Open Challenges. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 16684-16694	3.9	2
12	LCTD: Test-guided proofs for C programs on LLVM. <i>Journal of Logical and Algebraic Methods in Programming</i> , 2016 , 85, 1292-1317	1	1
11	The FMCAD 2017 graduate student forum 2017 ,		1
10	Unfolding Based Minimal Test Suites for Testing Multithreaded Programs 2015 ,		1
9	BMC via On-the-Fly Determinization. <i>Electronic Notes in Theoretical Computer Science</i> , 2003 , 89, 561-577	0.7	1
8	Testing Programs with Contextual Unfoldings. <i>Transactions on Embedded Computing Systems</i> , 2018 , 17, 1-25	1.8	1
7	Dynamic Cut-Off Algorithm for Parameterised Refinement Checking. <i>Lecture Notes in Computer Science</i> , 2018 , 256-276	0.9	1
6	Certifying Hardware Model Checking Results. <i>Lecture Notes in Computer Science</i> , 2019 , 498-502	0.9	1
5	Dynamic Process Intensification via Data-Driven Dynamic Optimization: Concept and Application to Ternary Distillation. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 10265-10275	3.9	1
4	Progress in Certifying Hardware Model Checking Results. <i>Lecture Notes in Computer Science</i> , 2021 , 363-386	0	0
3	Distributed hybrid-indexing of compressed pan-genomes for scalable and fast sequence alignment. <i>PLoS ONE</i> , 2021 , 16, e0255260	3.7	0
2	Reporting Races in Dynamic Partial Order Reduction. <i>Lecture Notes in Computer Science</i> , 2015 , 450-456	0.9	
1	An optimal cut-off algorithm for parameterised refinement checking. <i>Science of Computer Programming</i> , 2020 , 198, 102517	1.1	