

Helmut Veith

List of Publications by Year in descending order

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Version: 2024-02-01

42
papers

2,060
citations

361045

20
h-index

360668

35
g-index

45
all docs

45
docs citations

45
times ranked

1082
citing authors

#	ARTICLE	IF	CITATIONS
1	Parameterized model checking of rendezvous systems. Distributed Computing, 2018, 31, 187-222.	0.7	18
2	On the completeness of bounded model checking for threshold-based distributed algorithms: Reachability. Information and Computation, 2017, 252, 95-109.	0.5	38
3	A short counterexample property for safety and liveness verification of fault-tolerant distributed algorithms. , 2017, , .		25
4	Empirical software metrics for benchmarking of verification tools. Formal Methods in System Design, 2017, 50, 289-316.	0.9	20
5	On compiling Boolean circuits optimized for secure multi-party computation. Formal Methods in System Design, 2017, 51, 308-331.	0.9	7
6	Complexity and Resource Bound Analysis of Imperative Programs Using Difference Constraints. Journal of Automated Reasoning, 2017, 59, 3-45.	1.1	36
7	Para S^2S^2 : parameterized path reduction, acceleration, and SMT for reachability in threshold-guarded distributed algorithms. Formal Methods in System Design, 2017, 51, 270-307.	0.9	9
8	A short counterexample property for safety and liveness verification of fault-tolerant distributed algorithms. ACM SIGPLAN Notices, 2017, 52, 719-734.	0.2	20
9	What You Always Wanted to Know About Model Checking of Fault-Tolerant Distributed Algorithms. Lecture Notes in Computer Science, 2016, , 6-21.	1.0	10
10	Decidability in Parameterized Verification. ACM SIGACT News, 2016, 47, 53-64.	0.1	27
11	Difference constraints: an adequate abstraction for complexity analysis of imperative programs. , 2015, , .		15
12	Decidability of Parameterized Verification. Synthesis Lectures on Distributed Computing Theory, 2015, 6, 1-170.	0.1	44
13	Empirical Software Metrics for Benchmarking of Verification Tools. Lecture Notes in Computer Science, 2015, , 561-579.	1.0	20
14	SMT and POR Beat Counter Abstraction: Parameterized Model Checking of $\hat{\text{A}}$ Threshold-Based Distributed Algorithms. Lecture Notes in Computer Science, 2015, , 85-102.	1.0	28
15	A Simple and Scalable Static Analysis for Bound Analysis and Amortized Complexity Analysis. Lecture Notes in Computer Science, 2014, , 745-761.	1.0	70
16	Tutorial on Parameterized Model Checking of Fault-Tolerant Distributed Algorithms. Lecture Notes in Computer Science, 2014, , 122-171.	1.0	14
17	A Logic-Based Framework for Verifying Consensus Algorithms. Lecture Notes in Computer Science, 2014, , 161-181.	1.0	36
18	CBMC-GC: An ANSI C Compiler for Secure Two-Party Computations. Lecture Notes in Computer Science, 2014, , 244-249.	1.0	29

#	ARTICLE	IF	CITATIONS
19	On the Complexity of Symbolic Verification and Decision Problems in Bit-Vector Logic. Lecture Notes in Computer Science, 2014, , 481-492.	1.0	4
20	Parameterized model checking of fault-tolerant distributed algorithms by abstraction. , 2013, , .		41
21	On the concept of variable roles and its use in software analysis. , 2013, , .		10
22	Towards Modeling and Model Checking Fault-Tolerant Distributed Algorithms. Lecture Notes in Computer Science, 2013, , 209-226.	1.0	29
23	Secure two-party computations in ANSI C. , 2012, , .		86
24	Bound Analysis of Imperative Programs with the Size-Change Abstraction. Lecture Notes in Computer Science, 2011, , 280-297.	1.0	63
25	Malware Detection. , 2011, , 752-755.		4
26	Proving Ptolemy Right: The Environment Abstraction Framework for Model Checking Concurrent Systems. , 2008, , 33-47.		37
27	Software transformations to improve malware detection. Journal in Computer Virology, 2007, 3, 253-265.	1.9	23
28	Detecting Malicious Code by Model Checking. Lecture Notes in Computer Science, 2005, , 174-187.	1.0	112
29	An Iterative Framework for Simulation Conformance. Journal of Logic and Computation, 2005, 15, 465-488.	0.5	2
30	Verification by Network Decomposition. Lecture Notes in Computer Science, 2004, , 276-291.	1.0	49
31	Counterexample-guided abstraction refinement for symbolic model checking. Journal of the ACM, 2003, 50, 752-794.	1.8	798
32	Datalog LITE. ACM Transactions on Computational Logic, 2002, 3, 42-79.	0.7	50
33	On the complexity of data disjunctions. Theoretical Computer Science, 2002, 288, 101-128.	0.5	3
34	Complexity of t-tautologies. Annals of Pure and Applied Logic, 2001, 113, 3-11.	0.3	33
35	Progress on the State Explosion Problem in Model Checking. Lecture Notes in Computer Science, 2001, , 176-194.	1.0	98
36	Linear Time Datalog and Branching Time Logic. , 2000, , 443-467.		4

#	ARTICLE	IF	CITATIONS
37	An Analytic Calculus for Quantified Propositional Gödel Logic. Lecture Notes in Computer Science, 2000, , 112-126.	1.0	1
38	Succinctness as a source of complexity in logical formalisms. Annals of Pure and Applied Logic, 1999, 97, 231-260.	0.3	31
39	Interpolation in fuzzy logic. Archive for Mathematical Logic, 1999, 38, 461-489.	0.2	35
40	Generalized Quantifiers in Logic Programs. Lecture Notes in Computer Science, 1999, , 72-98.	1.0	1
41	Succinct Representation, Leaf Languages, and Projection Reductions. Information and Computation, 1998, 142, 207-236.	0.5	22
42	Languages represented by Boolean formulas. Information Processing Letters, 1997, 63, 251-256.	0.4	18