Laura Kovacs

List of Publications by Year in descending order

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759233 526287 1,054 66 12 27 citations h-index g-index papers 76 76 76 397 all docs docs citations times ranked citing authors

#	Article	IF	CITATIONS
1	First-Order Theorem Proving and Vampire. Lecture Notes in Computer Science, 2013, , 1-35.	1.3	229
2	Theorema: Towards computer-aided mathematical theory exploration. Journal of Applied Logic, 2006, 4, 470-504.	1.1	94
3	Finding Loop Invariants for Programs over Arrays Using a Theorem Prover. Lecture Notes in Computer Science, 2009, , 470-485.	1.3	91
4	Reasoning Algebraically About P-Solvable Loops. , 2008, , 249-264.		48
5	Interpolation and Symbol Elimination. Lecture Notes in Computer Science, 2009, , 199-213.	1.3	39
6	Interpolation and Symbol Elimination in Vampire. Lecture Notes in Computer Science, 2010, , 188-195.	1.3	34
7	ABC: Algebraic Bound Computation for Loops. Lecture Notes in Computer Science, 2010, , 103-118.	1.3	30
8	Symbolic Loop Bound Computation for WCET Analysis. Lecture Notes in Computer Science, 2012, , 227-242.	1.3	28
9	Invariant Generation for Multi-Path Loops with Polynomial Assignments. Lecture Notes in Computer Science, 2018, , 226-246.	1.3	26
10	WCET squeezing., 2013,,.		23
11	Coming to terms with quantified reasoning. , 2017, , .		21
12	Automatic Generation of Moment-Based Invariants for Prob-Solvable Loops. Lecture Notes in Computer Science, 2019, , 255-276.	1.3	21
13	Automated Generation of Non-Linear Loop Invariants Utilizing Hypergeometric Sequences. , 2017, , .		20
14	Invariant Generation in Vampire. Lecture Notes in Computer Science, 2011, , 60-64.	1.3	19
15	Finding Loop Invariants for Programs over Arrays Using a Theorem Prover. , 2009, , .		15
16	Automated Termination Analysis of Polynomial Probabilistic Programs. Lecture Notes in Computer Science, 2021, , 491-518.	1.3	14
17	A Complete Invariant Generation Approach for P-solvable Loops. Lecture Notes in Computer Science, 2010, , 242-256.	1.3	14
18	Playing in the grey area of proofs. , 2012, , .		13

#	Article	IF	CITATIONS
19	The vampire and the FOOL., 2016, , .		13
20	r-TuBound: Loop Bounds for WCET Analysis (Tool Paper). Lecture Notes in Computer Science, 2012, , 435-444.	1.3	13
21	Combining Logic and Algebraic Techniques for Program Verification in Theorema. , 2006, , .		12
22	Aligator: A Mathematica Package for Invariant Generation (System Description). Lecture Notes in Computer Science, 2008, , 275-282.	1.3	12
23	Mora - Automatic Generation of Moment-Based Invariants. Lecture Notes in Computer Science, 2020, , 492-498.	1.3	12
24	Playing in the grey area of proofs. ACM SIGPLAN Notices, 2012, 47, 259-272.	0.2	11
25	Induction with Generalization in Superposition Reasoning. Lecture Notes in Computer Science, 2020, , 123-137.	1.3	11
26	Supervisory Control of Discrete-Event Systems via IC3. Lecture Notes in Computer Science, 2014, , 252-266.	1.3	10
27	Analysis of Bayesian Networks via Prob-Solvable Loops. Lecture Notes in Computer Science, 2020, , 221-241.	1.3	9
28	Invariant and Type Inference for Matrices. Lecture Notes in Computer Science, 2010, , 163-179.	1.3	9
29	Coming to terms with quantified reasoning. ACM SIGPLAN Notices, 2017, 52, 260-270.	0.2	9
30	Verifying Relational Properties using Trace Logic. , 2019, , .		8
31	Aligators for Arrays (Tool Paper). Lecture Notes in Computer Science, 2010, , 348-356.	1.3	8
32	Subsumption Demodulation in First-Order Theorem Proving. Lecture Notes in Computer Science, 2020, , 297-315.	1.3	7
33	Extensional Crisis and Proving Identity. Lecture Notes in Computer Science, 2014, , 185-200.	1.3	7
34	A First Class Boolean Sort in First-Order Theorem Proving and TPTP. Lecture Notes in Computer Science, 2015, , 71-86.	1.3	7
35	Case Studies on Invariant Generation Using a Saturation Theorem Prover. Lecture Notes in Computer Science, 2011, , 1-15.	1.3	7
36	Symbolic Computation and Automated Reasoning for Program Analysis. Lecture Notes in Computer Science, 2016, , 20-27.	1.3	6

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37	Aligator.jl – A Julia Package for Loop Invariant Generation. Lecture Notes in Computer Science, 2018, , 111-117.	1.3	6
38	Invariant Generation for P-Solvable Loops with Assignments. , 2008, , 349-359.		5
39	Segment Abstraction for Worst-Case Execution Time Analysis. Lecture Notes in Computer Science, 2015, , 105-131.	1.3	5
40	Integer Induction in Saturation. Lecture Notes in Computer Science, 2021, , 361-377.	1.3	4
41	Vinter: A Vampire-Based Tool for Interpolation. Lecture Notes in Computer Science, 2012, , 148-156.	1.3	4
42	A FOOLish Encoding of the Next State Relations of Imperative Programs. Lecture Notes in Computer Science, 2018, , 405-421.	1.3	4
43	The Probabilistic Termination Tool Amber. Lecture Notes in Computer Science, 2021, , 667-675.	1.3	4
44	Summing up Smart Transitions. Lecture Notes in Computer Science, 2021, , 317-340.	1.3	3
45	Algebra-Based Synthesis of Loops and Their Invariants (Invited Paper). Lecture Notes in Computer Science, 2021, , 17-28.	1.3	3
46	Interactive Visualization of Saturation Attempts in Vampire. Lecture Notes in Computer Science, 2019, , 504-513.	1.3	3
47	ExperimentingÂwithÂSATÂSolversÂinÂVampire. Lecture Notes in Computer Science, 2014, , 431-442.	1.3	3
48	Solving Robust Glucose-Insulin Control by Dixon Resultant Computations. , 2012, , .		2
49	Bound Propagation for Arithmetic Reasoning in Vampire. , 2013, , .		2
50	Replacing conjectures by positive knowledge: Inferring proven precise worst-case execution time bounds using symbolic execution. Journal of Symbolic Computation, 2017, 80, 101-124.	0.8	2
51	Portfolio SAT and SMT Solving of Cardinality Constraints in Sensor Network Optimization. , 2019, , .		2
52	Algebra-Based Loop Synthesis. Lecture Notes in Computer Science, 2020, , 440-459.	1.3	2
53	A Supervisory Control Algorithm Based on Property-Directed Reachability. Lecture Notes in Computer Science, 2017, , 115-130.	1.3	2
54	The Inverse Method for Many-Valued Logics. Lecture Notes in Computer Science, 2013, , 12-23.	1.3	2

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55	Lingva: Generating and Proving Program Properties Using Symbol Elimination. Lecture Notes in Computer Science, 2015, , 67-75.	1.3	2
56	Algebra-Based Reasoning for Loop Synthesis. Formal Aspects of Computing, 0, , .	1.8	2
57	Loop Analysis by Quantification over Iterations. , 0, , .		2
58	Automated Generation of Exam Sheets for Automated Deduction. Lecture Notes in Computer Science, 2021, , 185-196.	1.3	1
59	Automating Induction by Reflection. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 337, 39-54.	0.8	1
60	Reasoning About Loops Using Vampire in KeY. Lecture Notes in Computer Science, 2015, , 434-443.	1.3	1
61	SmacC: A Retargetable Symbolic Execution Engine. Lecture Notes in Computer Science, 2013, , 482-486.	1.3	1
62	A Parametric Interpolation Framework for First-Order Theories. Lecture Notes in Computer Science, 2013, , 24-40.	1.3	1
63	Splitting Proofs for Interpolation. Lecture Notes in Computer Science, 2017, , 291-309.	1.3	1
64	Special issue on Automated Specification and Verification of Web Systems. The Journal of Logic and Algebraic Programming, 2013, 82, 241-242.	1.4	0
65	Superposition Reasoning about Quantified Bitvector Formulas. , 2019, , .		0
66	Formalizing Graph Trail Properties in Isabelle/HOL. Lecture Notes in Computer Science, 2020, , 190-205.	1.3	0