

Robert Lukas Mario Nieuwenhuis

List of Publications by Year in descending order

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52
papers

1,799
citations

471061

17
h-index

315357

38
g-index

55
all docs

55
docs citations

55
times ranked

712
citing authors

#	ARTICLE	IF	CITATIONS
1	A Heuristic Approach to the Design of Optimal Cross-Docking Boxes. IEEE Access, 2021, 9, 122578-122588.	2.6	0
2	Employee Scheduling With SAT-Based Pseudo-Boolean Constraint Solving. IEEE Access, 2021, 9, 142095-142104.	2.6	1
3	Improving IntSat by expressing disjunctions of bounds as linear constraints. AI Communications, 2015, 29, 205-209.	0.8	1
4	Curriculum-based course timetabling with SAT and MaxSAT. Annals of Operations Research, 2014, 218, 71-91.	2.6	47
5	To Encode or to Propagate? The Best Choice for Each Constraint in SAT. Lecture Notes in Computer Science, 2013, , 97-106.	1.0	10
6	A Parametric Approach for Smaller and Better Encodings of Cardinality Constraints. Lecture Notes in Computer Science, 2013, , 80-96.	1.0	23
7	Harald Ganzinger's Legacy: Contributions to Logics and Programming. Lecture Notes in Computer Science, 2013, , 1-18.	1.0	0
8	SAT and SMT Are Still Resolution: Questions and Challenges. Lecture Notes in Computer Science, 2012, , 10-13.	1.0	3
9	A Framework for Certified Boolean Branch-and-Bound Optimization. Journal of Automated Reasoning, 2011, 46, 81-102.	1.1	10
10	Cardinality Networks: a theoretical and empirical study. Constraints, 2011, 16, 195-221.	0.4	88
11	Reducing Chaos in SAT-Like Search: Finding Solutions Close to a Given One. Lecture Notes in Computer Science, 2011, , 273-286.	1.0	6
12	Hard problems in max-algebra, control theory, hypergraphs and other areas. Information Processing Letters, 2010, 110, 133-138.	0.4	21
13	Practical algorithms for unsatisfiability proof and core generation in SAT solvers. AI Communications, 2010, 23, 145-157.	0.8	9
14	SAT Modulo Theories: Getting the Best of SAT and Global Constraint Filtering. Lecture Notes in Computer Science, 2010, , 1-2.	1.0	6
15	Cardinality Networks and Their Applications. Lecture Notes in Computer Science, 2009, , 167-180.	1.0	36
16	Branch and Bound for Boolean Optimization and the Generation of Optimality Certificates. Lecture Notes in Computer Science, 2009, , 453-466.	1.0	4
17	Exponential behaviour of the Butkovi's "Zimmermann algorithm for solving two-sided linear systems in max-algebra. Discrete Applied Mathematics, 2008, 156, 3506-3509.	0.5	9
18	A Write-Based Solver for SAT Modulo the Theory of Arrays. , 2008, , .		6

#	ARTICLE	IF	CITATIONS
19	The Barcelogic SMT Solver. Lecture Notes in Computer Science, 2008, , 294-298.	1.0	52
20	SAT Modulo the Theory of Linear Arithmetic: Exact, Inexact and Commercial Solvers. , 2008, , 77-90.		20
21	Efficient Generation of Unsatisfiability Proofs and Cores in SAT. Lecture Notes in Computer Science, 2008, , 16-30.	1.0	11
22	Fast congruence closure and extensions. Information and Computation, 2007, 205, 557-580.	0.5	43
23	Challenges in Satisfiability Modulo Theories. Lecture Notes in Computer Science, 2007, , 2-18.	1.0	12
24	Solving SAT and SAT Modulo Theories. Journal of the ACM, 2006, 53, 937-977.	1.8	559
25	On SAT Modulo Theories and Optimization Problems. Lecture Notes in Computer Science, 2006, , 156-169.	1.0	94
26	DPLL(T) with Exhaustive Theory Propagation and Its Application to Difference Logic. Lecture Notes in Computer Science, 2005, , 321-334.	1.0	81
27	Proof-Producing Congruence Closure. Lecture Notes in Computer Science, 2005, , 453-468.	1.0	44
28	Classes of term rewrite systems with polynomial confluence problems. ACM Transactions on Computational Logic, 2004, 5, 321-331.	0.7	5
29	Constraint Solving for Term Orderings Compatible with Abelian Semigroups, Monoids and Groups. Constraints, 2004, 9, 167-192.	0.4	0
30	Fast Term Indexing with Coded Context Trees. Journal of Automated Reasoning, 2004, 32, 103-120.	1.1	9
31	Superposition with completely built-in Abelian groups. Journal of Symbolic Computation, 2004, 37, 1-33.	0.5	7
32	Paramodulation and Knuth's Bendix Completion with Nontotal and Nonmonotonic Orderings. Journal of Automated Reasoning, 2003, 30, 99-120.	1.1	4
33	Stratified resolution. Journal of Symbolic Computation, 2003, 36, 79-99.	0.5	5
34	Deciding the confluence of ordered term rewrite systems. ACM Transactions on Computational Logic, 2003, 4, 33-55.	0.7	6
35	Practical Algorithms for Deciding Path Ordering Constraint Satisfaction. Information and Computation, 2002, 178, 422-440.	0.5	4
36	Paramodulation-Based Theorem Proving. , 2001, , 371-443.		202

#	ARTICLE	IF	CITATIONS
37	Constraints and Theorem Proving. Lecture Notes in Computer Science, 2001, , 159-201.	1.0	3
38	On the Evaluation of Indexing Techniques for Theorem Proving. Lecture Notes in Computer Science, 2001, , 257-271.	1.0	17
39	Induction=I-Axiomatization+First-Order Consistency. Information and Computation, 2000, 159, 151-186.	0.5	32
40	Invited Talk: Rewrite-Based Deduction and Symbolic Constraints. Lecture Notes in Computer Science, 1999, , 302-313.	1.0	8
41	Solved Forms for Path Ordering Constraints. Lecture Notes in Computer Science, 1999, , 1-15.	1.0	5
42	Decidability and Complexity Analysis by Basic Paramodulation. Information and Computation, 1998, 147, 1-21.	0.5	18
43	Barcelona. Journal of Automated Reasoning, 1997, 18, 171-176.	1.1	4
44	Paramodulation with Built-in AC-Theories and Symbolic Constraints. Journal of Symbolic Computation, 1997, 23, 1-21.	0.5	18
45	Theorem Proving with Ordering and Equality Constrained Clauses. Journal of Symbolic Computation, 1995, 19, 321-351.	0.5	92
46	A total AC-compatible ordering based on RPO. Theoretical Computer Science, 1995, 142, 209-227.	0.5	25
47	Simple LPO constraint solving methods. Information Processing Letters, 1993, 47, 65-69.	0.4	44
48	Saturation of first-order (constrained) clauses with the Saturate system. Lecture Notes in Computer Science, 1993, , 436-440.	1.0	6
49	Basic superposition is complete. Lecture Notes in Computer Science, 1992, , 371-389.	1.0	37
50	Efficient deduction in equality Horn logic by Horn-completion. Information Processing Letters, 1991, 39, 1-6.	0.4	7
51	Decision levels are stable: towards better SAT heuristics. , 0, , .		0
52	SAT-Based Techniques for Integer Linear Constraints. , 0, , .		0