Albert Oliveras Llunell

List of Publications by Year
in descending order

41 papers	1,903 citations	430442 18 h-index	395343 33 g-index
41 all docs	41 docs citations	41 times ranked	804 citing authors

#	Article	IF	Citations
1	Solving SAT and SAT Modulo Theories. Journal of the ACM, 2006, 53, 937-977.	1.8	559
2	DPLL(T): Fast Decision Procedures. Lecture Notes in Computer Science, 2004, , 175-188.	1.0	184
3	On SAT Modulo Theories and Optimization Problems. Lecture Notes in Computer Science, 2006, , 156-169.	1.0	94
4	MiniMaxSAT: An Efficient Weighted Max-SAT solver. Journal of Artificial Intelligence Research, 0, 31, 1-32.	7.0	89
5	Cardinality Networks: a theoretical and empirical study. Constraints, 2011, 16, 195-221.	0.4	88
6	DPLL(T) with Exhaustive Theory Propagation and Its Application to Difference Logic. Lecture Notes in Computer Science, 2005, , 321-334.	1.0	81
7	Splitting on Demand in SAT Modulo Theories. Lecture Notes in Computer Science, 2006, , 512-526.	1.0	69
8	SMT Techniques for Fast Predicate Abstraction. Lecture Notes in Computer Science, 2006, , 424-437.	1.0	66
9	The Barcelogic SMT Solver. Lecture Notes in Computer Science, 2008, , 294-298.	1.0	52
10	Abstract DPLL and Abstract DPLL Modulo Theories. Lecture Notes in Computer Science, 2005, , 36-50.	1.0	46
11	Proof-Producing Congruence Closure. Lecture Notes in Computer Science, 2005, , 453-468.	1.0	44
12	Fast congruence closure and extensions. Information and Computation, 2007, 205, 557-580.	0.5	43
13	Proving Non-termination Using Max-SMT. Lecture Notes in Computer Science, 2014, , 779-796.	1.0	42
14	A New Look at BDDs for Pseudo-Boolean Constraints. Journal of Artificial Intelligence Research, 0, 45, 443-480.	7.0	42
15	6 Years of SMT-COMP. Journal of Automated Reasoning, 2013, 50, 243-277.	1.1	39
16	Cardinality Networks and Their Applications. Lecture Notes in Computer Science, 2009, , 167-180.	1.0	36
17	Proving termination of imperative programs using Max-SMT. , 2013, , .		35
18	MiniMaxSat: A New Weighted Max-SAT Solver. , 2007, , 41-55.		34

#	Article	IF	Citations
19	SAT Modulo Linear Arithmetic for Solving Polynomial Constraints. Journal of Automated Reasoning, 2012, 48, 107-131.	1.1	32
20	Proving Termination Through Conditional Termination. Lecture Notes in Computer Science, 2017, , 99-117.	1.0	25
21	A Parametric Approach for Smaller and Better Encodings of Cardinality Constraints. Lecture Notes in Computer Science, 2013, , 80-96.	1.0	23
22	DESIGN AND RESULTS OF THE 3RD ANNUAL SATISFIABILITY MODULO THEORIES COMPETITION (SMT-COMP) Tj ETQq0 0 0 rgBT /Overlo	0.7	22
23	SAT Modulo the Theory of Linear Arithmetic: Exact, Inexact and Commercial Solvers. , 2008, , 77-90.		20
24	Decision Procedures for SAT, SAT Modulo Theories and Beyond. The BarcelogicTools. Lecture Notes in Computer Science, 2005, , 23-46.	1.0	17
25	Congruence Closure with Integer Offsets. Lecture Notes in Computer Science, 2003, , 78-90.	1.0	15
26	Minimal-Model-Guided Approaches to Solving Polynomial Constraints and Extensions. Lecture Notes in Computer Science, 2014, , 333-350.	1.0	14
27	Differential expression of long nonâ€coding <scp>RNA</scp>s are related to proliferation and histological diversity in follicular lymphomas. British Journal of Haematology, 2019, 184, 373-383.	1.2	12
28	Challenges in Satisfiability Modulo Theories. Lecture Notes in Computer Science, 2007, , 2-18.	1.0	12
29	Efficient Generation of Unsatisfiability Proofs and Cores in SAT. Lecture Notes in Computer Science, 2008, , 16-30.	1.0	11
30	A Framework for Certified Boolean Branch-and-Bound Optimization. Journal of Automated Reasoning, 2011, 46, 81-102.	1.1	10
31	To Encode or to Propagate? The Best Choice for Each Constraint in SAT. Lecture Notes in Computer Science, 2013, , 97-106.	1.0	10
32	Practical algorithms for unsatisfiability proof and core generation in SAT solvers. AI Communications, 2010, 23, 145-157.	0.8	9
33	BDDs for Pseudo-Boolean Constraints â€“ Revisited. Lecture Notes in Computer Science, 2011, , 61-75.	1.0	9
34	A Write-Based Solver for SAT Modulo the Theory of Arrays. , 2008, , .		6
35	Incomplete SMT Techniques for Solving Non-Linear Formulas over the Integers. ACM Transactions on Computational Logic, 2019, 20, 1-36.	0.7	6
36	Branch and Bound for Boolean Optimization and the Generation of Optimality Certificates. Lecture Notes in Computer Science, 2009, , 453-466.	1.0	4

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37	Semiring-Induced Propositional Logic: Definition and Basic Algorithms. Lecture Notes in Computer Science, 2010, , 332-347.	1.0	1
38	Employee Scheduling With SAT-Based Pseudo-Boolean Constraint Solving. IEEE Access, 2021, 9, 142095-142104.	2.6	1
39	Speeding up the Constraint-Based Method in Difference Logic. Lecture Notes in Computer Science, 2016, , 284-301.	1.0	1
40	A Heuristic Approach to the Design of Optimal Cross-Docking Boxes. IEEE Access, 2021, 9, 122578-122588.	2.6	0
41	Decision levels are stable: towards better SAT heuristics. , 0, , .		0