Michael Codish

List of Publications by Year
in descending order

79 papers	**1,305** citations	430754 **18** h-index	434063 **31** g-index
85 all docs	**85** docs citations	**85** times ranked	**407** citing authors

#	Article	IF	Citations
1	Propagation via lazy clause generation. Constraints, 2009, 14, 357-391.	0.4	156
2	A semantic basis for the termination analysis of logic programs. The Journal of Logic Programming, 1999, 41, 103-123.	1.9	95
3	Termination analysis of logic programs through combination of type-based norms. ACM Transactions on Programming Languages and Systems, 2007, 29, 10.	1.7	49
4	Specialisation of Prolog and FCP programs using abstract interpretation. New Generation Computing, 1988, 6, 159-186.	2.5	44
5	Bottom-up abstract interpretation of logic programs. Theoretical Computer Science, 1994, 124, 93-125.	0.5	44
6	Improving abstract interpretations by combining domains. ACM Transactions on Programming Languages and Systems, 1995, 17, 28-44.	1.7	44
7	Termination Analysis of Java Bytecode. Lecture Notes in Computer Science, 2008, , 2-18.	1.0	40
8	Analyzing logic programs using â€œpropâ€•ositional logic programs and a magic wand. The Journal of Logic Programming, 1995, 25, 249-274.	1.9	37
9	Suspension analyses for concurrent logic programs. ACM Transactions on Programming Languages and Systems, 1994, 16, 649-686.	1.7	34
10	Propagation = Lazy Clause Generation. , 2007, , 544-558.		33
11	Type dependencies for logic programs using ACI-unification. Theoretical Computer Science, 2000, 238, 131-159.	0.5	32
12	Sharing and groundness dependencies in logic programs. ACM Transactions on Programming Languages and Systems, 1999, 21, 948-976.	1.7	29
13	Pairwise Cardinality Networks. Lecture Notes in Computer Science, 2010, , 154-172.	1.0	29
14	Twenty-Five Comparators Is Optimal When Sorting Nine Inputs (and Twenty-Nine for Ten). , 2014, , .		25
15	Compiling finite domain constraints to SAT withBEE. Theory and Practice of Logic Programming, 2012, 12, 465-483.	1.1	22
16	Logic programming with satisfiability. Theory and Practice of Logic Programming, 2008, 8, 121-128.	1.1	21
17	Efficient goal directed bottom-up evaluation of logic programs. The Journal of Logic Programming, 1999, 38, 355-370.	1.9	20
18	Solving Partial Order Constraints for LPO Termination. Lecture Notes in Computer Science, 2006, , 4-18.	1.0	19

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19	Combining Norms to Prove Termination. Lecture Notes in Computer Science, 2002, , 126-138.	1.0	18
20	Proving Termination Using Recursive Path Orders and SAT Solving. Lecture Notes in Computer Science, 2007, , 267-282.	1.0	18
21	Inferring Termination Conditions for Logic Programs Using Backwards Analysis. Lecture Notes in Computer Science, 2001, , 685-694.	1.0	16
22	Efficient analysis of concurrent constraint logic programs. Lecture Notes in Computer Science, 1993, , 633-644.	1.0	16
23	Modelling Prolog Control. Journal of Logic and Computation, 1993, 3, 579-603.	0.5	14
24	Sorting networks: To the end and back again. Journal of Computer and System Sciences, 2019, 104, 184-201.	0.9	14
25	Semantics-based program analysis for logic-based languages using XSB. International Journal on Software Tools for Technology Transfer, 1998, 2, 29-45.	1.7	13
26	SAT Solving for Termination Proofs with Recursive Path Orders and Dependency Pairs. Journal of Automated Reasoning, 2012, 49, 53-93.	1.1	13
27	Sorting nine inputs requires twenty-five comparisons. Journal of Computer and System Sciences, 2016, 82, 551-563.	0.9	13
28	A semantic basis for termination analysis of logic programs and its realization using symbolic norm constraints. Lecture Notes in Computer Science, 1997, , 31-45.	1.0	12
29	Worst-case groundness analysis using positive Boolean functions. The Journal of Logic Programming, 1999, 41, 125-128.	1.9	12
30	A simple polynomial groundness analysis for logic programs. The Journal of Logic Programming, 2000, 45, 143-156.	1.9	12
31	Meta-circular Abstract Interpretation in Prolog. Lecture Notes in Computer Science, 2002, , 109-134.	1.0	12
32	Compiling OR-parallelism into AND-parallelism. New Generation Computing, 1987, 5, 45-61.	2.5	11
33	An algebraic approach to sharing analysis of logic programs. The Journal of Logic Programming, 2000, 42, 111-149.	1.9	11
34	The Quest for Optimal Sorting Networks: Efficient Generation of Two-Layer Prefixes. , 2014, , .		11
35	SAT Solving for Argument Filterings. Lecture Notes in Computer Science, 2006, , 30-44.	1.0	11
36	A SAT-Based Approach to Size Change Termination with Global Ranking Functions. , 2008, , 218-232.		11

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37	Exploiting goal independence in the analysis of logic programs. The Journal of Logic Programming, 1997, 32, 247-261.	1.9	10
38	Computing the Ramsey number R(4,3,3) using abstraction and symmetry breaking. Constraints, 2016, 21, 375-393.	0.4	10
39	Breaking symmetries in graph search with canonizing sets. Constraints, 2016, 21, 357-374.	0.4	10
40	On the design of a correct freeness analysis for logic programs. The Journal of Logic Programming, 1996, 28, 181-206.	1.9	9
41	Optimal-depth sorting networks. Journal of Computer and System Sciences, 2017, 84, 185-204.	0.9	9
42	Reuse of Results in Termination Analysis of Typed Logic Programs. Lecture Notes in Computer Science, 2002, , 477-492.	1.0	9
43	Boolean Equi-propagation for Optimized SAT Encoding. Lecture Notes in Computer Science, 2011, , 621-636.	1.0	9
44	Inferring termination conditions for logic programs using backwards analysis. Theory and Practice of Logic Programming, 2005, 5, 75-91.	1.1	8
45	Constraints for symmetry breaking in graph representation. Constraints, 2019, 24, 1-24.	0.4	8
46	Sorting Networks: The End Game. Lecture Notes in Computer Science, 2015, , 664-675.	1.0	8
47	Lazy Abstraction for Size-Change Termination. Lecture Notes in Computer Science, 2010, , 217-232.	1.0	8
48	Optimal Base Encodings for Pseudo-Boolean Constraints. Lecture Notes in Computer Science, 2011, , 189-204.	1.0	8
49	A confluent semantic basis for the analysis of concurrent constraint logic programs. The Journal of Logic Programming, 1997, 30, 53-81.	1.9	7
50	Worst-case groundness analysis using definite Boolean functions. Theory and Practice of Logic Programming, 2001, 1, 611-615.	1.1	7
51	Improving program analyses, by structure untupling. The Journal of Logic Programming, 2000, 43, 251-263.	1.9	6
52	Size-Change Termination Analysis in k-Bits. Lecture Notes in Computer Science, 2006, , 230-245.	1.0	6
53	Pressing for parallelism: a PROLOG program made Concurrent. The Journal of Logic Programming, 1986, 3, 75-92.	1.9	5
54	Modelling Prolog control. , 1992, , .		5

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55	An algebraic approach to sharing analysis of logic programs. Lecture Notes in Computer Science, 1997, , 68-82.	1.0	5
56	Solving Partial Order Constraints for LPO Termination. Journal of Satisfiability, Boolean Modeling and Computation, 2008, 5, 193-215.	1.2	5
57	SAT-based termination analysis using monotonicity constraints over the integers. Theory and Practice of Logic Programming, 2011, 11, 503-520.	1.1	5
58	Oracle semantics for Prologa. , 1992, , 100-114.		4
59	A declarative encoding of telecommunications feature subscription in SAT. , 2009, , .		4
60	Simplifying Pseudo-Boolean Constraints in Residual Number Systems. Lecture Notes in Computer Science, 2014, , 351-366.	1.0	4
61	Pos(T): Analyzing Dependencies in Typed Logic Programs. Lecture Notes in Computer Science, 2001, , 406-420.	1.0	4
62	The Def-inite Approach to Dependency Analysis. Lecture Notes in Computer Science, 2001, , 417-431.	1.0	4
63	Breaking Symmetries in Graphs: The Nauty Way. Lecture Notes in Computer Science, 2016, , 157-172.	1.0	4
64	Abstracting unification: A key step in the design of logic program analyses. Lecture Notes in Computer Science, 1995, , 406-425.	1.0	3
65	The Boolean logic of set sharing analysis. Lecture Notes in Computer Science, 1998, , 89-101.	1.0	3
66	Optimizing sorting algorithms by using sorting networks. Formal Aspects of Computing, 2017, 29, 559-579.	1.4	3
67	Applying Sorting Networks to Synthesize Optimized Sorting Libraries. Lecture Notes in Computer Science, 2015, , 127-142.	1.0	3
68	The DNA Word Design Problem: A New Constraint Model and New Results. , 2017, , .		2
69	Higher-Precision Groundness Analysis. Lecture Notes in Computer Science, 2001, , 135-149.	1.0	2
70	Proving Termination with (Boolean) Satisfaction. Lecture Notes in Computer Science, 2008, , 1-7.	1.0	1
71	Backbones for Equality. Lecture Notes in Computer Science, 2013, , 1-14.	1.0	1
72	Proving implications by algebraic approximation. Lecture Notes in Computer Science, 1994, , 6-22.	1.0	1

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73	Incremental Symmetry Breaking Constraints for Graph Search Problems. Proceedings of the AAAI Conference on Artificial Intelligence, 2020, 34, 1536-1543.	3.6	1
74	Exotic Semi-Ring Constraints. , 0, , .		1
75	Proving implications by algebraic approximation. Theoretical Computer Science, 1996, 165, 57-74.	0.5	0
76	Logic Programming with Graph Automorphism: Integrating nauty with Prolog (Tool Description). Theory and Practice of Logic Programming, 2016, 16, 688-702.	1.1	0
77	Preface for special section from FLOPS 2014. Journal of Functional Programming, 2016, 26, .	0.5	0
78	SAT-Based Big-Step Local Search. , 2018, , .		0
79	Complete symmetry breaking constraints for the class of uniquely Hamiltonian graphs. Constraints, 0, , 1.	0.4	0