

Thomas Reps

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

106 papers	5,917 citations	33 h-index	76 g-index
108 ext. papers	6,520 ext. citations	0.9 avg, IF	5.63 L-index

#	Paper	IF	Citations
106	On the complexity of bidirected interleaved Dyck-reachability 2021 , 5, 1-28		4
105	Interprocedural Context-Unbounded Program Analysis Using Observation Sequences. <i>ACM Transactions on Programming Languages and Systems</i> , 2021 , 42, 1-34	1.6	
104	Algebraic Program Analysis. <i>Lecture Notes in Computer Science</i> , 2021 , 46-83	0.9	1
103	Fast graph simplification for interleaved Dyck-reachability 2020 ,		11
102	Refinement of path expressions for static analysis 2019 , 3, 1-29		10
101	A new abstraction framework for affine transformers. <i>Formal Methods in System Design</i> , 2019 , 54, 110-143	1.4	2
100	PMAF: an algebraic framework for static analysis of probabilistic programs. <i>ACM SIGPLAN Notices</i> , 2018 , 53, 513-528	0.2	6
99	Compositional recurrence analysis revisited 2017 ,		22
98	Newtonian Program Analysis via Tensor Product. <i>ACM Transactions on Programming Languages and Systems</i> , 2017 , 39, 1-72	1.6	4
97	Compositional recurrence analysis revisited. <i>ACM SIGPLAN Notices</i> , 2017 , 52, 248-262	0.2	8
96	Sound Bit-Precise Numerical Domains. <i>Lecture Notes in Computer Science</i> , 2017 , 500-520	0.9	2
95	Automating Abstract Interpretation. <i>Lecture Notes in Computer Science</i> , 2016 , 3-40	0.9	11
94	Newtonian program analysis via tensor product 2016 ,		10
93	Newtonian program analysis via tensor product. <i>ACM SIGPLAN Notices</i> , 2016 , 51, 663-677	0.2	2
92	Synthesis of machine code from semantics 2015 ,		19
91	Partial evaluation of machine code 2015 ,		8
90	Partial evaluation of machine code. <i>ACM SIGPLAN Notices</i> , 2015 , 50, 860-879	0.2	

89	Specialization Slicing. <i>ACM Transactions on Programming Languages and Systems</i> , 2014 , 36, 1-67	1.6	7
88	Abstract Domains of Affine Relations. <i>ACM Transactions on Programming Languages and Systems</i> , 2014 , 36, 1-73	1.6	13
87	TSL. <i>ACM Transactions on Programming Languages and Systems</i> , 2013 , 35, 1-59	1.6	28
86	OpenNWA: A Nested-Word Automaton Library. <i>Lecture Notes in Computer Science</i> , 2012 , 665-671	0.9	10
85	Bilateral Algorithms for Symbolic Abstraction. <i>Lecture Notes in Computer Science</i> , 2012 , 111-128	0.9	24
84	ConSeq. <i>Computer Architecture News</i> , 2011 , 39, 251-264		5
83	Symbolic analysis via semantic reinterpretation. <i>International Journal on Software Tools for Technology Transfer</i> , 2011 , 13, 61-87	1.3	9
82	A decision procedure for detecting atomicity violations for communicating processes with locks. <i>International Journal on Software Tools for Technology Transfer</i> , 2011 , 13, 37-60	1.3	2
81	Finding concurrency-related bugs using random isolation. <i>International Journal on Software Tools for Technology Transfer</i> , 2011 , 13, 495-518	1.3	9
80	ConSeq. <i>ACM SIGPLAN Notices</i> , 2011 , 46, 251-264	0.2	10
79	Abstract Domains of Affine Relations. <i>Lecture Notes in Computer Science</i> , 2011 , 198-215	0.9	6
78	Analysis Techniques for Information Security. <i>Synthesis Lectures on Information Security Privacy and Trust</i> , 2010 , 2, 1-164	1	0
77	A relational approach to interprocedural shape analysis. <i>ACM Transactions on Programming Languages and Systems</i> , 2010 , 32, 1-52	1.6	19
76	WYSINWYX. <i>ACM Transactions on Programming Languages and Systems</i> , 2010 , 32, 1-84	1.6	118
75	View-Augmented Abstractions. <i>Electronic Notes in Theoretical Computer Science</i> , 2010 , 267, 43-57	0.7	3
74	Reducing concurrent analysis under a context bound to sequential analysis. <i>Formal Methods in System Design</i> , 2009 , 35, 73-97	1.4	105
73	2009 ,		2
72	A Decision Procedure for Detecting Atomicity Violations for Communicating Processes with Locks. <i>Lecture Notes in Computer Science</i> , 2009 , 125-142	0.9	9

71	Verifying Information Flow Control over Unbounded Processes. <i>Lecture Notes in Computer Science</i> , 2009 , 773-789	0.9	11
70	Language Strength Reduction. <i>Lecture Notes in Computer Science</i> , 2008 , 283-298	0.9	10
69	Solving Multiple Dataflow Queries Using WPDSs. <i>Lecture Notes in Computer Science</i> , 2008 , 93-109	0.9	5
68	Interprocedural Analysis of Concurrent Programs Under a Context Bound 2008 , 282-298		37
67	Finding Concurrency-Related Bugs Using Random Isolation. <i>Lecture Notes in Computer Science</i> , 2008 , 198-213	0.9	12
66	A Next-Generation Platform for Analyzing Executables 2007 , 43-61		2
65	Low-Level Library Analysis and Summarization 2007 , 68-81		16
64	Abstract Error Projection. <i>Lecture Notes in Computer Science</i> , 2007 , 200-217	0.9	10
63	Program Analysis Using Weighted Pushdown Systems. <i>Lecture Notes in Computer Science</i> , 2007 , 23-51	0.9	13
62	Extracting Output Formats from Executables 2006 ,		28
61	Intermediate-representation recovery from low-level code 2006 ,		33
60	Weighted Pushdown Systems and Trust-Management Systems. <i>Lecture Notes in Computer Science</i> , 2006 , 1-26	0.9	7
59	Improving Pushdown System Model Checking. <i>Lecture Notes in Computer Science</i> , 2006 , 343-357	0.9	26
58	Recency-Abstraction for Heap-Allocated Storage. <i>Lecture Notes in Computer Science</i> , 2006 , 221-239	0.9	69
57	Analysis of recursive state machines. <i>ACM Transactions on Programming Languages and Systems</i> , 2005 , 27, 786-818	1.6	135
56	CodeSurfer/x86: A Platform for Analyzing x86 Executables. <i>Lecture Notes in Computer Science</i> , 2005 , 250-254	0.9	75
55	Extended Weighted Pushdown Systems. <i>Lecture Notes in Computer Science</i> , 2005 , 434-448	0.9	41
54	Weighted pushdown systems and their application to interprocedural dataflow analysis. <i>Science of Computer Programming</i> , 2005 , 58, 206-263	1.1	132

53	Automatic Assume/Guarantee Reasoning for Heap-Manipulating Programs: Ongoing Work. <i>Electronic Notes in Theoretical Computer Science</i> , 2005 , 131, 125-138	0.7	4
52	A semantics for procedure local heaps and its abstractions. <i>ACM SIGPLAN Notices</i> , 2005 , 40, 296-309	0.2	10
51	A framework for numeric analysis of array operations. <i>ACM SIGPLAN Notices</i> , 2005 , 40, 338-350	0.2	36
50	Symbolic Implementation of the Best Transformer. <i>Lecture Notes in Computer Science</i> , 2004 , 252-266	0.9	84
49	Analyzing Memory Accesses in x86 Executables. <i>Lecture Notes in Computer Science</i> , 2004 , 5-23	0.9	136
48	Interprocedural slicing using dependence graphs. <i>ACM SIGPLAN Notices</i> , 2004 , 39, 229-243	0.2	18
47	Numeric Domains with Summarized Dimensions. <i>Lecture Notes in Computer Science</i> , 2004 , 512-529	0.9	42
46	Symbolically Computing Most-Precise Abstract Operations for Shape Analysis. <i>Lecture Notes in Computer Science</i> , 2004 , 530-545	0.9	61
45	A Relational Approach to Interprocedural Shape Analysis. <i>Lecture Notes in Computer Science</i> , 2004 , 246-264	0.9	24
44	Finite Differencing of Logical Formulas for Static Analysis. <i>Lecture Notes in Computer Science</i> , 2003 , 380-398	0.9	31
43	Parametric shape analysis via 3-valued logic. <i>ACM Transactions on Programming Languages and Systems</i> , 2002 , 24, 217-298	1.6	479
42	Model Checking of Unrestricted Hierarchical State Machines. <i>Lecture Notes in Computer Science</i> , 2001 , 652-666	0.9	26
41	Safety checking of machine code. <i>ACM SIGPLAN Notices</i> , 2000 , 35, 70-82	0.2	6
40	Interconvertibility of a class of set constraints and context-free-language reachability. <i>Theoretical Computer Science</i> , 2000 , 248, 29-98	1.1	67
39	Undecidability of context-sensitive data-dependence analysis. <i>ACM Transactions on Programming Languages and Systems</i> , 2000 , 22, 162-186	1.6	61
38	Putting static analysis to work for verification 2000 ,		60
37	Physical type checking for C. <i>Software Engineering Notes: an Informal Newsletter of the Special Interest Committee on Software Engineering / ACM</i> , 1999 , 24, 66-75	0.4	9
36	Coping with type casts in C. <i>Software Engineering Notes: an Informal Newsletter of the Special Interest Committee on Software Engineering / ACM</i> , 1999 , 24, 180-198	0.4	6

35	Pointer analysis for programs with structures and casting. <i>ACM SIGPLAN Notices</i> , 1999 , 34, 91-103	0.2	12
34	Program analysis via graph reachability. <i>Information and Software Technology</i> , 1998 , 40, 701-726	3.4	168
33	Solving shape-analysis problems in languages with destructive updating. <i>ACM Transactions on Programming Languages and Systems</i> , 1998 , 20, 1-50	1.6	203
32	Interconvertibility of set constraints and context-free language reachability. <i>ACM SIGPLAN Notices</i> , 1997 , 32, 74-89	0.2	7
31	Program generalization for software reuse 1996 ,		14
30	On the sequential nature of interprocedural program-analysis problems. <i>Acta Informatica</i> , 1996 , 33, 739-757	0.57	14
29	On the sequential nature of interprocedural program-analysis problems. <i>Acta Informatica</i> , 1996 , 33, 739-757	0.57	12
28	Precise interprocedural dataflow analysis with applications to constant propagation. <i>Theoretical Computer Science</i> , 1996 , 167, 131-170	1.1	159
27	Program specialization via program slicing. <i>Lecture Notes in Computer Science</i> , 1996 , 409-429	0.9	32
26	Demand interprocedural dataflow analysis 1995 ,		97
25	Shape analysis as a generalized path problem 1995 ,		41
24	Precise interprocedural chopping. <i>Software Engineering Notes: an Informal Newsletter of the Special Interest Committee on Software Engineering / ACM</i> , 1995 , 20, 41-52	0.4	14
23	Demand interprocedural dataflow analysis. <i>Software Engineering Notes: an Informal Newsletter of the Special Interest Committee on Software Engineering / ACM</i> , 1995 , 20, 104-115	0.4	20
22	Semantic foundations of binding-time analysis for imperative programs 1995 ,		8
21	Precise interprocedural dataflow analysis via graph reachability 1995 ,		642
20	Speeding up slicing. <i>Software Engineering Notes: an Informal Newsletter of the Special Interest Committee on Software Engineering / ACM</i> , 1994 , 19, 11-20	0.4	35
19	Speeding up slicing 1994 ,		88
18	On competitive on-line algorithms for the dynamic priority-ordering problem. <i>Information Processing Letters</i> , 1994 , 51, 155-161	0.8	13

17	Solving demand versions of interprocedural analysis problems. <i>Lecture Notes in Computer Science</i> , 1994 , 389-403	0.9	28
16	A program integration algorithm that accommodates semantics-preserving transformations. <i>ACM Transactions on Software Engineering and Methodology</i> , 1992 , 1, 310-354	3.3	33
15	Algebraic properties of program integration. <i>Science of Computer Programming</i> , 1991 , 17, 139-215	1.1	17
14	Efficient comparison of program slices. <i>Acta Informatica</i> , 1991 , 28, 713-732	0.9	11
13	Interprocedural slicing using dependence graphs. <i>ACM Transactions on Programming Languages and Systems</i> , 1990 , 12, 26-60	1.6	851
12	Integrating noninterfering versions of programs. <i>ACM Transactions on Programming Languages and Systems</i> , 1989 , 11, 345-387	1.6	218
11	Incremental evaluation for attribute grammars with unrestricted movement between tree modifications. <i>Acta Informatica</i> , 1988 , 25, 155-178	0.9	
10	Sublinear-space evaluation algorithms for attribute grammars. <i>ACM Transactions on Programming Languages and Systems</i> , 1987 , 9, 408-440	1.6	2
9	The synthesizer generator 1984 ,		105
8	The synthesizer generator. <i>Software Engineering Notes: an Informal Newsletter of the Special Interest Committee on Software Engineering / ACM</i> , 1984 , 9, 42-48	0.4	17
7	The synthesizer generator. <i>ACM SIGPLAN Notices</i> , 1984 , 19, 42-48	0.2	40
6	Incremental Context-Dependent Analysis for Language-Based Editors. <i>ACM Transactions on Programming Languages and Systems</i> , 1983 , 5, 449-477	1.6	145
5	Optimal-time incremental semantic analysis for syntax-directed editors 1982 ,		39
4	The why and wherefore of the Cornell Program Synthesizer. <i>ACM SIGPLAN Notices</i> , 1981 , 16, 8-16	0.2	24
3	The why and wherefore of the Cornell Program Synthesizer. <i>ACM SIGOA Newsletter</i> , 1981 , 2, 8-16		1
2	Incremental evaluation for attribute grammars with application to syntax-directed editors 1981 ,		99
1	The Cornell program synthesizer. <i>Communications of the ACM</i> , 1981 , 24, 563-573	2.5	386