

Thomas Reps

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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	Interprocedural slicing using dependence graphs. <i>ACM Transactions on Programming Languages and Systems</i> , 1990 , 12, 26-60	1.6	851
105	Precise interprocedural dataflow analysis via graph reachability 1995 ,		642
104	Parametric shape analysis via 3-valued logic. <i>ACM Transactions on Programming Languages and Systems</i> , 2002 , 24, 217-298	1.6	479
103	The Cornell program synthesizer. <i>Communications of the ACM</i> , 1981 , 24, 563-573	2.5	386
102	Integrating noninterfering versions of programs. <i>ACM Transactions on Programming Languages and Systems</i> , 1989 , 11, 345-387	1.6	218
101	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
100	Program analysis via graph reachability. <i>Information and Software Technology</i> , 1998 , 40, 701-726	3.4	168
99	Precise interprocedural dataflow analysis with applications to constant propagation. <i>Theoretical Computer Science</i> , 1996 , 167, 131-170	1.1	159
98	Incremental Context-Dependent Analysis for Language-Based Editors. <i>ACM Transactions on Programming Languages and Systems</i> , 1983 , 5, 449-477	1.6	145
97	Analyzing Memory Accesses in x86 Executables. <i>Lecture Notes in Computer Science</i> , 2004 , 5-23	0.9	136
96	Analysis of recursive state machines. <i>ACM Transactions on Programming Languages and Systems</i> , 2005 , 27, 786-818	1.6	135
95	Weighted pushdown systems and their application to interprocedural dataflow analysis. <i>Science of Computer Programming</i> , 2005 , 58, 206-263	1.1	132
94	WYSINWYX. <i>ACM Transactions on Programming Languages and Systems</i> , 2010 , 32, 1-84	1.6	118
93	Reducing concurrent analysis under a context bound to sequential analysis. <i>Formal Methods in System Design</i> , 2009 , 35, 73-97	1.4	105
92	The synthesizer generator 1984 ,		105
91	Incremental evaluation for attribute grammars with application to syntax-directed editors 1981 ,		99
90	Demand interprocedural dataflow analysis 1995 ,		97

89	Speeding up slicing 1994 ,		88
88	Symbolic Implementation of the Best Transformer. <i>Lecture Notes in Computer Science</i> , 2004 , 252-266	0.9	84
87	CodeSurfer/x86: A Platform for Analyzing x86 Executables. <i>Lecture Notes in Computer Science</i> , 2005 , 250-254	0.9	75
86	Recency-Abstraction for Heap-Allocated Storage. <i>Lecture Notes in Computer Science</i> , 2006 , 221-239	0.9	69
85	Interconvertibility of a class of set constraints and context-free-language reachability. <i>Theoretical Computer Science</i> , 2000 , 248, 29-98	1.1	67
84	Undecidability of context-sensitive data-dependence analysis. <i>ACM Transactions on Programming Languages and Systems</i> , 2000 , 22, 162-186	1.6	61
83	Symbolically Computing Most-Precise Abstract Operations for Shape Analysis. <i>Lecture Notes in Computer Science</i> , 2004 , 530-545	0.9	61
82	Putting static analysis to work for verification 2000 ,		60
81	Numeric Domains with Summarized Dimensions. <i>Lecture Notes in Computer Science</i> , 2004 , 512-529	0.9	42
80	Extended Weighted Pushdown Systems. <i>Lecture Notes in Computer Science</i> , 2005 , 434-448	0.9	41
79	Shape analysis as a generalized path problem 1995 ,		41
78	The synthesizer generator. <i>ACM SIGPLAN Notices</i> , 1984 , 19, 42-48	0.2	40
77	Optimal-time incremental semantic analysis for syntax-directed editors 1982 ,		39
76	Interprocedural Analysis of Concurrent Programs Under a Context Bound 2008 , 282-298		37
75	A framework for numeric analysis of array operations. <i>ACM SIGPLAN Notices</i> , 2005 , 40, 338-350	0.2	36
74	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
73	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
72	Intermediate-representation recovery from low-level code 2006 ,		33

71	Program specialization via program slicing. <i>Lecture Notes in Computer Science</i> , 1996 , 409-429	0.9	32
70	Finite Differencing of Logical Formulas for Static Analysis. <i>Lecture Notes in Computer Science</i> , 2003 , 380-398	0.9	31
69	TSL. <i>ACM Transactions on Programming Languages and Systems</i> , 2013 , 35, 1-59	1.6	28
68	Extracting Output Formats from Executables 2006 ,		28
67	Solving demand versions of interprocedural analysis problems. <i>Lecture Notes in Computer Science</i> , 1994 , 389-403	0.9	28
66	Improving Pushdown System Model Checking. <i>Lecture Notes in Computer Science</i> , 2006 , 343-357	0.9	26
65	Model Checking of Unrestricted Hierarchical State Machines. <i>Lecture Notes in Computer Science</i> , 2001 , 652-666	0.9	26
64	The why and wherefore of the Cornell Program Synthesizer. <i>ACM SIGPLAN Notices</i> , 1981 , 16, 8-16	0.2	24
63	A Relational Approach to Interprocedural Shape Analysis. <i>Lecture Notes in Computer Science</i> , 2004 , 246-264	0.9	24
62	Bilateral Algorithms for Symbolic Abstraction. <i>Lecture Notes in Computer Science</i> , 2012 , 111-128	0.9	24
61	Compositional recurrence analysis revisited 2017 ,		22
60	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
59	Synthesis of machine code from semantics 2015 ,		19
58	A relational approach to interprocedural shape analysis. <i>ACM Transactions on Programming Languages and Systems</i> , 2010 , 32, 1-52	1.6	19
57	Interprocedural slicing using dependence graphs. <i>ACM SIGPLAN Notices</i> , 2004 , 39, 229-243	0.2	18
56	Algebraic properties of program integration. <i>Science of Computer Programming</i> , 1991 , 17, 139-215	1.1	17
55	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
54	Low-Level Library Analysis and Summarization 2007 , 68-81		16

53	Program generalization for software reuse 1996 ,		14
52	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
51	On the sequential nature of interprocedural program-analysis problems. <i>Acta Informatica</i> , 1996 , 33, 739-757	0.5	14
50	Abstract Domains of Affine Relations. <i>ACM Transactions on Programming Languages and Systems</i> , 2014 , 36, 1-73	1.6	13
49	On competitive on-line algorithms for the dynamic priority-ordering problem. <i>Information Processing Letters</i> , 1994 , 51, 155-161	0.8	13
48	Program Analysis Using Weighted Pushdown Systems. <i>Lecture Notes in Computer Science</i> , 2007 , 23-51	0.9	13
47	Pointer analysis for programs with structures and casting. <i>ACM SIGPLAN Notices</i> , 1999 , 34, 91-103	0.2	12
46	On the sequential nature of interprocedural program-analysis problems. <i>Acta Informatica</i> , 1996 , 33, 739-757	0.5	12
45	Finding Concurrency-Related Bugs Using Random Isolation. <i>Lecture Notes in Computer Science</i> , 2008 , 198-213	0.9	12
44	Automating Abstract Interpretation. <i>Lecture Notes in Computer Science</i> , 2016 , 3-40	0.9	11
43	Efficient comparison of program slices. <i>Acta Informatica</i> , 1991 , 28, 713-732	0.9	11
42	Fast graph simplification for interleaved Dyck-reachability 2020 ,		11
41	Verifying Information Flow Control over Unbounded Processes. <i>Lecture Notes in Computer Science</i> , 2009 , 773-789	0.9	11
40	Refinement of path expressions for static analysis 2019 , 3, 1-29		10
39	ConSeq. <i>ACM SIGPLAN Notices</i> , 2011 , 46, 251-264	0.2	10
38	A semantics for procedure local heaps and its abstractions. <i>ACM SIGPLAN Notices</i> , 2005 , 40, 296-309	0.2	10
37	Newtonian program analysis via tensor product 2016 ,		10
36	Language Strength Reduction. <i>Lecture Notes in Computer Science</i> , 2008 , 283-298	0.9	10

35	Abstract Error Projection. <i>Lecture Notes in Computer Science</i> , 2007 , 200-217	0.9	10
34	OpenNWA: A Nested-Word Automaton Library. <i>Lecture Notes in Computer Science</i> , 2012 , 665-671	0.9	10
33	Symbolic analysis via semantic reinterpretation. <i>International Journal on Software Tools for Technology Transfer</i> , 2011 , 13, 61-87	1.3	9
32	Finding concurrency-related bugs using random isolation. <i>International Journal on Software Tools for Technology Transfer</i> , 2011 , 13, 495-518	1.3	9
31	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
30	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
29	Semantic foundations of binding-time analysis for imperative programs 1995 ,		8
28	Partial evaluation of machine code 2015 ,		8
27	Compositional recurrence analysis revisited. <i>ACM SIGPLAN Notices</i> , 2017 , 52, 248-262	0.2	8
26	Specialization Slicing. <i>ACM Transactions on Programming Languages and Systems</i> , 2014 , 36, 1-67	1.6	7
25	Interconvertibility of set constraints and context-free language reachability. <i>ACM SIGPLAN Notices</i> , 1997 , 32, 74-89	0.2	7
24	Weighted Pushdown Systems and Trust-Management Systems. <i>Lecture Notes in Computer Science</i> , 2006 , 1-26	0.9	7
23	Safety checking of machine code. <i>ACM SIGPLAN Notices</i> , 2000 , 35, 70-82	0.2	6
22	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
21	PMAF: an algebraic framework for static analysis of probabilistic programs. <i>ACM SIGPLAN Notices</i> , 2018 , 53, 513-528	0.2	6
20	Abstract Domains of Affine Relations. <i>Lecture Notes in Computer Science</i> , 2011 , 198-215	0.9	6
19	ConSeq. <i>Computer Architecture News</i> , 2011 , 39, 251-264		5
18	Solving Multiple Dataflow Queries Using WPDSs. <i>Lecture Notes in Computer Science</i> , 2008 , 93-109	0.9	5

17	Newtonian Program Analysis via Tensor Product. <i>ACM Transactions on Programming Languages and Systems</i> , 2017 , 39, 1-72	1.6	4
16	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
15	On the complexity of bidirected interleaved Dyck-reachability 2021 , 5, 1-28		4
14	View-Augmented Abstractions. <i>Electronic Notes in Theoretical Computer Science</i> , 2010 , 267, 43-57	0.7	3
13	A new abstraction framework for affine transformers. <i>Formal Methods in System Design</i> , 2019 , 54, 110-143	1.3	2
12	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		2
11	2009 ,		2
10	A Next-Generation Platform for Analyzing Executables 2007 , 43-61		2
9	Sublinear-space evaluation algorithms for attribute grammars. <i>ACM Transactions on Programming Languages and Systems</i> , 1987 , 9, 408-440	1.6	2
8	Newtonian program analysis via tensor product. <i>ACM SIGPLAN Notices</i> , 2016 , 51, 663-677	0.2	2
7	Sound Bit-Precise Numerical Domains. <i>Lecture Notes in Computer Science</i> , 2017 , 500-520	0.9	2
6	The why and wherefore of the Cornell Program Synthesizer. <i>ACM SIGOA Newsletter</i> , 1981 , 2, 8-16		1
5	Algebraic Program Analysis. <i>Lecture Notes in Computer Science</i> , 2021 , 46-83	0.9	1
4	Analysis Techniques for Information Security. <i>Synthesis Lectures on Information Security Privacy and Trust</i> , 2010 , 2, 1-164	1	0
3	Incremental evaluation for attribute grammars with unrestricted movement between tree modifications. <i>Acta Informatica</i> , 1988 , 25, 155-178	0.9	
2	Partial evaluation of machine code. <i>ACM SIGPLAN Notices</i> , 2015 , 50, 860-879	0.2	
1	Interprocedural Context-Unbounded Program Analysis Using Observation Sequences. <i>ACM Transactions on Programming Languages and Systems</i> , 2021 , 42, 1-34	1.6	