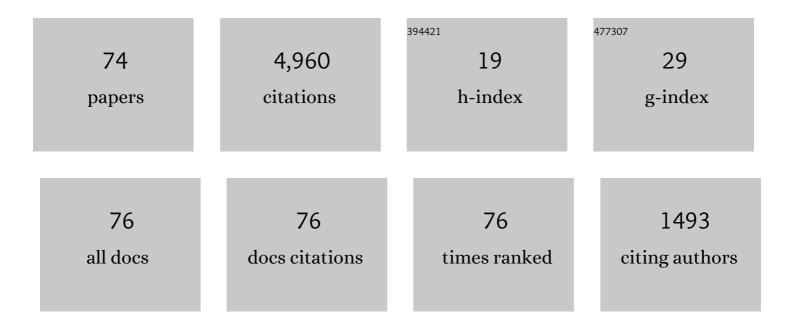
Martin Rinard

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Warp: A Hardware Platform for Efficient Multimodal Sensing With Adaptive Approximation. IEEE Micro, 2020, 40, 57-66.	1.8	11
2	Automatic inference of code transforms for patch generation. , 2017, , .		107
3	An analysis of the search spaces for generate and validate patch generation systems. , 2016, , .		102
4	Reducing serial I/O power in error-tolerant applications by efficient lossy encoding. , 2016, , .		14
5	Crayon. , 2016, , .		19
6	Automatic patch generation by learning correct code. , 2016, , .		281
7	Automatic patch generation by learning correct code. ACM SIGPLAN Notices, 2016, 51, 298-312.	0.2	71
8	Staged program repair with condition synthesis. , 2015, , .		225
9	An analysis of patch plausibility and correctness for generate-and-validate patch generation systems. , 2015, , .		250
10	Efficiency Limits for Value-Deviation-Bounded Approximate Communication. IEEE Embedded Systems Letters, 2015, 7, 109-112.	1.9	7
11	Automatic runtime error repair and containment via recovery shepherding. ACM SIGPLAN Notices, 2014, 49, 227-238.	0.2	26
12	Automatic runtime error repair and containment via recovery shepherding. , 2014, , .		40
13	Parallelizing Sequential Programs with Statistical Accuracy Tests. Transactions on Embedded Computing Systems, 2013, 12, 1-26.	2.9	45
14	Randomized accuracy-aware program transformations for efficient approximate computations. , 2012, ,		44
15	Randomized accuracy-aware program transformations for efficient approximate computations. ACM SIGPLAN Notices, 2012, 47, 441-454.	0.2	17
16	Bolt. ACM SIGPLAN Notices, 2012, 47, 431-450.	0.2	8
17	Dynamic knobs for responsive power-aware computing. Computer Architecture News, 2011, 39, 199-212.	2.5	12
18	Data representation synthesis. ACM SIGPLAN Notices, 2011, 46, 38-49.	0.2	10

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#	Article	IF	CITATIONS
19	Managing performance vs. accuracy trade-offs with loop perforation. , 2011, , .		358
20	Dynamic knobs for responsive power-aware computing. , 2011, , .		195
21	Manipulating Program Functionality to Eliminate Security Vulnerabilities. Advances in Information Security, 2011, , 109-115.	1.2	8
22	Patterns and statistical analysis for understanding reduced resource computing. ACM SIGPLAN Notices, 2010, 45, 806-821.	0.2	6
23	Quality of service profiling. , 2010, , .		166
24	Histogram-Based Global Load Balancing in Structured Peer-to-Peer Systems. IEEE Transactions on Knowledge and Data Engineering, 2009, 21, 595-608.	5.7	31
25	Automatically patching errors in deployed software. , 2009, , .		282
26	Survival strategies for synthesized hardware systems. , 2009, , .		0
27	Taint-based directed whitebox fuzzing. , 2009, , .		232
28	Integrated Reasoning and Proof Choice Point Selection in the Jahob System – Mechanisms for Program Survival. Lecture Notes in Computer Science, 2009, , 1-16.	1.3	5
29	Full functional verification of linked data structures. ACM SIGPLAN Notices, 2008, 43, 349-361.	0.2	33
30	Detecting and eliminating memory leaks using cyclic memory allocation. , 2007, , .		47
31	Automated Techniques for Surviving (Otherwise) Fatal Software Errors. Electronic Notes in Theoretical Computer Science, 2007, 174, 113-116.	0.9	5
32	Using First-Order Theorem Provers in the Jahob Data Structure Verification System. , 2007, , 74-88.		19
33	Polynomial Constraints for Sets with Cardinality Bounds. Lecture Notes in Computer Science, 2007, , 258-273.	1.3	2
34	Towards Efficient Satisfiability Checking for Boolean Algebra with Presburger Arithmetic. Lecture Notes in Computer Science, 2007, , 215-230.	1.3	65
35	Incremental Deterministic Planning. , 2006, , .		1
36	Goal-Directed Reasoning for Specification-Based Data Structure Repair. IEEE Transactions on Software Engineering, 2006, 32, 931-951.	5.6	39

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#	Article	IF	CITATIONS
37	Modular Pluggable Analyses for Data Structure Consistency. IEEE Transactions on Software Engineering, 2006, 32, 988-1005.	5.6	44
38	Deciding Boolean Algebra with Presburger Arithmetic. Journal of Automated Reasoning, 2006, 36, 213-239.	1.4	49
39	Probabilistic accuracy bounds for fault-tolerant computations that discard tasks. , 2006, , .		131
40	Inference and enforcement of data structure consistency specifications. , 2006, , .		99
41	Decision Procedures for Set-Valued Fields. Electronic Notes in Theoretical Computer Science, 2005, 131, 51-62.	0.9	16
42	Exploring the acceptability envelope. , 2005, , .		30
43	Data structure repair using goal-directed reasoning. , 2005, , .		56
44	Crosscutting techniques in program specification and analysis. , 2005, , .		16
45	An Algorithm for Deciding BAPA: Boolean Algebra with Presburger Arithmetic. Lecture Notes in Computer Science, 2005, , 260-277.	1.3	35
46	Field Constraint Analysis. Lecture Notes in Computer Science, 2005, , 157-173.	1.3	29
47	Generalized Typestate Checking for Data Structure Consistency. Lecture Notes in Computer Science, 2005, , 430-447.	1.3	44
48	Hob: A Tool for Verifying DataÂStructureÂConsistency. Lecture Notes in Computer Science, 2005, , 237-241.	1.3	17
49	A classification system and analysis for aspect-oriented programs. Software Engineering Notes: an Informal Newsletter of the Special Interest Committee on Software Engineering / ACM, 2004, 29, 147-158.	0.7	16
50	Region inference for an object-oriented language. ACM SIGPLAN Notices, 2004, 39, 243-254.	0.2	5
51	Generalized typestate checking using set interfaces and pluggable analyses. ACM SIGPLAN Notices, 2004, 39, 46-55.	0.2	21
52	Generalized Records and Spatial Conjunction in Role Logic. Lecture Notes in Computer Science, 2004, , 361-376.	1.3	5
53	Verifying a File System Implementation. Lecture Notes in Computer Science, 2004, , 373-390.	1.3	37
54	Automatic detection and repair of errors in data structures. ACM SIGPLAN Notices, 2003, 38, 78-95.	0.2	22

#	Article	IF	CITATIONS
55	Acceptability-oriented computing. , 2003, , .		50
56	Automatic detection and repair of errors in data structures. , 2003, , .		110
57	Ownership types for safe region-based memory management in real-time Java. , 2003, , .		99
58	Role analysis. , 2002, , .		81
59	Ownership types for safe programming. , 2002, , .		358
60	A parameterized type system for race-free Java programs. ACM SIGPLAN Notices, 2001, 36, 56-69.	0.2	20
61	Incrementalized pointer and escape analysis. ACM SIGPLAN Notices, 2001, 36, 35-46.	0.2	10
62	Pointer and escape analysis for multithreaded programs. ACM SIGPLAN Notices, 2001, 36, 12-23.	0.2	24
63	Incrementalized pointer and escape analysis. , 2001, , .		43
64	Pointer and escape analysis for multithreaded programs. , 2001, , .		91
65	Symbolic bounds analysis of pointers, array indices, and accessed memory regions. ACM SIGPLAN Notices, 2000, 35, 182-195.	0.2	21
66	Software analysis: a roadmap. , 2000, , .		63
67	Compositional pointer and escape analysis for Java programs. , 1999, , .		283
68	Automatic parallelization of divide and conquer algorithms. , 1999, , .		44
69	Pointer analysis for multithreaded programs. , 1999, , .		88
70	Automatic parallelization of divide and conquer algorithms. ACM SIGPLAN Notices, 1999, 34, 72-83.	0.2	15
71	Compositional pointer and escape analysis for Java programs. ACM SIGPLAN Notices, 1999, 34, 187-206.	0.2	55
72	Pointer analysis for multithreaded programs. ACM SIGPLAN Notices, 1999, 34, 77-90.	0.2	6

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#	Article	IF	CITATIONS
73	Synchronization transformations for parallel computing. , 1997, , .		33

Runtime Checking for Program Verification. , 0, , 202-213.