

Rastislav Bodik

List of Publications by Year in descending order

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53
papers

3,714
citations

471509

17
h-index

434195

31
g-index

54
all docs

54
docs citations

54
times ranked

1861
citing authors

#	ARTICLE	IF	CITATIONS
1	Learning inductive invariants by sampling from frequency distributions. Formal Methods in System Design, 2020, 56, 154-177.	0.8	2
2	Verifying and improving Halide™'s term rewriting system with program synthesis. , 2020, 4, 1-28.		8
3	Summary-based symbolic evaluation for smart contracts. , 2020, , .		10
4	Iterative Search for Reconfigurable Accelerator Blocks With a Compiler in the Loop. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2019, 38, 407-418.	2.7	9
5	Synthesizing Signaling Pathways from Temporal Phosphoproteomic Data. Cell Reports, 2018, 24, 3607-3618.	6.4	30
6	Accelerating Syntax-Guided Invariant Synthesis. Lecture Notes in Computer Science, 2018, , 251-269.	1.3	20
7	Programming With Models: Writing Statistical Algorithms for General Model Structures With NIMBLE. Journal of Computational and Graphical Statistics, 2017, 26, 403-413.	1.7	534
8	Synthesizing highly expressive SQL queries from input-output examples. , 2017, , .		89
9	Sampling invariants from frequency distributions. , 2017, , .		30
10	Synthesizing highly expressive SQL queries from input-output examples. ACM SIGPLAN Notices, 2017, 52, 452-466.	0.2	37
11	Scaling up Superoptimization. , 2016, , .		45
12	Scaling up Superoptimization. ACM SIGPLAN Notices, 2016, 51, 297-310.	0.2	5
13	Scaling up Superoptimization. Operating Systems Review (ACM), 2016, 50, 297-310.	1.9	2
14	Scaling up Superoptimization. Computer Architecture News, 2016, 44, 297-310.	2.5	4
15	Toward tool support for interactive synthesis. , 2015, , .		8
16	Synthesis of layout engines from relational constraints. ACM SIGPLAN Notices, 2015, 50, 74-88.	0.2	0
17	Toward Synthesizing Executable Models in Biology. Frontiers in Bioengineering and Biotechnology, 2014, 2, 75.	4.1	5
18	Chlorophyll. ACM SIGPLAN Notices, 2014, 49, 396-407.	0.2	21

#	ARTICLE	IF	CITATIONS
19	A lightweight symbolic virtual machine for solver-aided host languages. ACM SIGPLAN Notices, 2014, 49, 530-541.	0.2	54
20	Algorithmic program synthesis: introduction. International Journal on Software Tools for Technology Transfer, 2013, 15, 397-411.	1.9	27
21	Syntax-guided synthesis. , 2013, , .		303
22	Synthesis of biological models from mutation experiments. , 2013, , .		24
23	Growing solver-aided languages with rosette. , 2013, , .		125
24	Parallel schedule synthesis for attribute grammars. , 2013, , .		24
25	Synthesis of first-order dynamic programming algorithms. ACM SIGPLAN Notices, 2011, 46, 83-98.	0.2	8
26	Angelic debugging. , 2011, , .		98
27	Fast and parallel webpage layout. , 2010, , .		72
28	Programming with angelic nondeterminism. , 2010, , .		29
29	Sketching concurrent data structures. , 2008, , .		125
30	Type inference for locality analysis of distributed data structures. , 2008, , .		25
31	Sketching concurrent data structures. ACM SIGPLAN Notices, 2008, 43, 136-148.	0.2	23
32	Sketching stencils. ACM SIGPLAN Notices, 2007, 42, 167-178.	0.2	25
33	Sketching stencils. , 2007, , .		93
34	Combinatorial sketching for finite programs. ACM SIGPLAN Notices, 2006, 41, 404-415.	0.2	74
35	Combinatorial sketching for finite programs. , 2006, , .		377
36	Refinement-based context-sensitive points-to analysis for Java. ACM SIGPLAN Notices, 2006, 41, 387-400.	0.2	65

#	ARTICLE	IF	CITATIONS
37	Runtime specialization with optimistic heap analysis. ACM SIGPLAN Notices, 2005, 40, 327-343.	0.2	6
38	Jungloid mining. , 2005, , .		255
39	Demand-driven points-to analysis for Java. , 2005, , .		141
40	Programming by sketching for bit-streaming programs. ACM SIGPLAN Notices, 2005, 40, 281-294.	0.2	62
41	Jungloid mining. ACM SIGPLAN Notices, 2005, 40, 48-61.	0.2	124
42	Debugging temporal specifications with concept analysis. ACM SIGPLAN Notices, 2003, 38, 182-195.	0.2	22
43	Mining specifications. ACM SIGPLAN Notices, 2002, 37, 4-16.	0.2	116
44	Mining specifications. , 2002, , .		437
45	Rapid profiling via stratified sampling. Computer Architecture News, 2001, 29, 278-289.	2.5	6
46	Rapid profiling via stratified sampling. , 2001, , .		23
47	Focusing processor policies via critical-path prediction. Computer Architecture News, 2001, 29, 74-85.	2.5	14
48	Load-reuse analysis. ACM SIGPLAN Notices, 1999, 34, 64-76.	0.2	11
49	Complete removal of redundant expressions. ACM SIGPLAN Notices, 1998, 33, 1-14.	0.2	22
50	Interprocedural conditional branch elimination. ACM SIGPLAN Notices, 1997, 32, 146-158.	0.2	6
51	Refining data flow information using infeasible paths. Software Engineering Notes: an Informal Newsletter of the Special Interest Committee on Software Engineering / ACM, 1997, 22, 361-377.	0.7	27
52	Partial dead code elimination using slicing transformations. ACM SIGPLAN Notices, 1997, 32, 159-170.	0.2	4
53	Array Data Flow Analysis for Load-Store Optimizations in Fine-Grain Architectures. International Journal of Parallel Programming, 1996, 24, 481-512.	1.5	7