Yuriy Brun

List of Publications by Year in Descending Order

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Version: 2024-04-28

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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.

86 papers	2,858 citations	25 h-index	52 g-index
93 ext. papers	3,646 ext. citations	3.4 avg, IF	5.25 L-index

#	Paper	IF	Citations
86	Quality of Automated Program Repair on Real-World Defects. *IEEE Transactions on Software Engineering*, **2020**, 1-1	3.5	5
85	Visualizing Distributed System Executions. *ACM Transactions on Software Engineering and Methodology*, **2020**, 29, 1-38	3.3	7
84	Causal testing **2020**,		5
83	TacTok: semantics-aware proof synthesis **2020**, 4, 1-31		2
82	Wasm/k: delimited continuations for WebAssembly **2020**,		1
81	Automatically Generating Precise Oracles from Structured Natural Language Specifications **2019**,		6
80	SOSRepair: Expressive Semantic Search for Real-World Program Repair. *IEEE Transactions on Software Engineering*, **2019**, 1-1	3.5	4
79	Preventing undesirable behavior of intelligent machines. *Science*, **2019**, 366, 999-1004	33.3	29
78	Discrete-Event Simulation and Integer Linear Programming for Constraint-Aware Resource Scheduling. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2018**, 48, 1578-1593	7.3	5
77	. *IEEE Software*, **2018**, 35, 25-31	1.5	1
76	Do automated program repair techniques repair hard and important bugs?. *Empirical Software Engineering*, **2018**, 23, 2901-2947	3.3	20
75	Themis: automatically testing software for discrimination **2018**,		24
74	Software fairness **2018**,		13
73	Making well-informed software design decisions **2018**,		4
72	Fairness testing: testing software for discrimination **2017**,		103
71	Clarifications on the Construction and Use of the ManyBugs Benchmark. *IEEE Transactions on Software Engineering*, **2017**, 43, 1089-1090	3.5	3
70	**2017**,		12

69	Software Engineering for Self-Adaptive Systems: Research Challenges in the Provision of Assurances. *Lecture Notes in Computer Science*, **2017**, 3-30	0.9	26
68	Challenges in Composing and Decomposing Assurances for Self-Adaptive Systems. *Lecture Notes in Computer Science*, **2017**, 64-89	0.9	4
67	Debugging Distributed Systems. *Queue*, **2016**, 14, 91-110	0.9	11
66	Specification and analysis of human-intensive system resource-utilization policies **2016**,		2
65	Debugging distributed systems. *Communications of the ACM*, **2016**, 59, 32-37	2.5	31
64	Preventing data errors with continuous testing **2015**,		11
63	Using Declarative Specification to Improve the Understanding, Extensibility, and Comparison of Model-Inference Algorithms. *IEEE Transactions on Software Engineering*, **2015**, 41, 408-428	3.5	29
62	. *IEEE Transactions on Software Engineering*, **2015**, 41, 764-780	3.5	10
61	Using simulation to evaluate error detection strategies: A case study of cloud-based deployment processes. *Journal of Systems and Software*, **2015**, 110, 205-221	3.3	1
60	. *IEEE Transactions on Software Engineering*, **2015**, 41, 745-763	3.5	7
59	Development History Granularity Transformations (N) **2015**,		5
58	Repairing Programs with Semantic Code Search (T) **2015**,		74
57	Discovering specification violations in networked software systems **2015**,		6
56	The ManyBugs and IntroClass Benchmarks for Automated Repair of C Programs. *IEEE Transactions on Software Engineering*, **2015**, 41, 1236-1256	3.5	126
55	Using Computer Simulation to Study Nurse-to-Patient Ratios in an Emergency Department. *Journal of Nursing Administration*, **2015**, 45, 551-6	1.6	4
54	Is the cure worse than the disease? overfitting in automated program repair **2015**,		134
53	Resource Specification for Prototyping Human-Intensive Systems. *Lecture Notes in Computer Science*, **2015**, 332-346	0.9	3
52	Behavioral resource-aware model inference **2014**,		25

51	The plastic surgery hypothesis **2014**,		84
50	Inferring models of concurrent systems from logs of their behavior with CSight **2014**,		78
49	Mining precise performance-aware behavioral models from existing instrumentation **2014**,		8
48	Shedding light on distributed system executions **2014**,		8
47	Automatic mining of specifications from invocation traces and method invariants **2014**,		38
46	Software Engineering for Self-Adaptive Systems: A Second Research Roadmap. *Lecture Notes in Computer Science*, **2013**, 1-32	0.9	191
45	A Design Space for Self-Adaptive Systems. *Lecture Notes in Computer Science*, **2013**, 33-50	0.9	16
44	. *IEEE Transactions on Software Engineering*, **2013**, 39, 1358-1375	3.5	38
43	Entrusting Private Computation and Data to Untrusted Networks. *IEEE Transactions on Dependable and Secure Computing*, **2013**, 10, 225-238	3.9	9
42	Resource scheduling through resource-aware simulation of emergency departments **2013**,		4
41	Understanding regression failures through test-passing and test-failing code changes **2013**,		2
40	Making offline analyses continuous **2013**,		1
39	Data debugging with continuous testing **2013**,		12
38	Unifying FSM-inference algorithms through declarative specification **2013**,		18
37	Supporting process undo and redo in software engineering decision making **2013**,		5
36	Keeping Data Private while Computing in the Cloud **2012**,		16
35	Automated Analysis and Code Generation for Domain-Specific Models **2012**,		9
34	Efficient 3-SAT algorithms in the tile assembly model. *Natural Computing*, **2012**, 11, 209-229	1.3	4

33	Speculative analysis of integrated development environment recommendations **2012**,		16
32	Traffic routing for evaluating self-adaptation **2012**,		11
31	Improving IDE recommendations by considering global implications of existing recommendations **2012**,		1
30	Mining temporal invariants from partially ordered logs. *Operating Systems Review (ACM)*, **2012**, 45, 39-46	0.8	23
29	Speculative analysis of integrated development environment recommendations. *ACM SIGPLAN Notices*, **2012**, 47, 669-682	0.2	16
28	Engineering Heterogeneous Robotics Systems: A Software Architecture-Based Approach. *Computer* , **2011**, 44, 62-71	1.6	9
27	Isomorphism in model tools and editors **2011**,		1
26	Synoptic **2011**,		20
25	Crystal **2011**,		15
24	Proactive detection of collaboration conflicts **2011**,		102
23	Leveraging existing instrumentation to automatically infer invariant-constrained models **2011**,		101
22	Smart Redundancy for Distributed Computation **2011**,		23
21	Improving Efficiency of 3-SAT-Solving Tile Systems. *Lecture Notes in Computer Science*, **2011**, 1-12	0.9	2
20	Improving impact of self-adaptation and self-management research through evaluation methodology **2010**,		7
19	Speculative analysis **2010**,		23
18	Using dynamic execution traces and program invariants to enhance behavioral model inference **2010**,		28
17	An architecture-driven software mobility framework. *Journal of Systems and Software*, **2010**, 83, 972-989	3.3	31
16	From system specifications to component behavioral models **2009**,		7

15	Synthesizing partial component-level behavior models from system specifications **2009**,		24
14	Path finding in the tile assembly model. *Theoretical Computer Science*, **2009**, 410, 1461-1472	1.1	6
13	Engineering Self-Adaptive Systems through Feedback Loops. *Lecture Notes in Computer Science*, **2009**, 48-70	0.9	275
12	Software Engineering for Self-Adaptive Systems: A Research Roadmap. *Lecture Notes in Computer Science*, **2009**, 1-26	0.9	451
11	Connecting the Dots: Molecular Machinery for Distributed Robotics. *Lecture Notes in Computer Science*, **2009**, 102-111	0.9	
10	Nondeterministic polynomial time factoring in the tile assembly model. *Theoretical Computer Science*, **2008**, 395, 3-23	1.1	31
9	Solving satisfiability in the tile assembly model with a constant-size tileset. *Journal of Algorithms*, **2008**, 63, 151-166		16
8	Solving NP-complete problems in the tile assembly model. *Theoretical Computer Science*, **2008**, 395, 31-46	1.1	39
7	An Architectural Style for Solving Computationally Intensive Problems on Large Networks **2007**,		21
6	A Discreet, Fault-Tolerant, and Scalable Software Architectural Style for Internet-Sized Networks **2007**,		4
5	Arithmetic computation in the tile assembly model: Addition and multiplication. *Theoretical Computer Science*, **2007**, 378, 17-31	1.1	50
4	Fault and adversary tolerance as an emergent property of distributed systemsTsoftware architectures **2007**,		18
3	Constant-Size Tileset for Solving an NP-Complete Problem in Nondeterministic Linear Time **2007**, 26-35		1
2	Self-assembly of DNA double-double crossover complexes into high-density, doubly connected, planar structures. *Journal of the American Chemical Society*, **2005**, 127, 17590-1	16.4	74
1	DNA triangles and self-assembled hexagonal tilings. *Journal of the American Chemical Society*, **2004**, 126, 13924-5	16.4	115