

# Xiangyu Zhang

## List of Publications by Year in descending order

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66  
papers

1,882  
citations

687363

13  
h-index

713466

21  
g-index

66  
all docs

66  
docs citations

66  
times ranked

832  
citing authors

#	ARTICLE	IF	CITATIONS
1	To what extent do DNN-based image classification models make unreliable inferences?. Empirical Software Engineering, 2021, 26, 1.	3.9	12
2	PMP: Cost-effective Forced Execution with Probabilistic Memory Pre-planning. , 2020, , .		9
3	Automated Refactoring for Stampedlock. IEEE Access, 2019, 7, 104900-104911.	4.2	10
4	SLF: Fuzzing without Valid Seed Inputs. , 2019, , .		35
5	Probabilistic Disassembly. , 2019, , .		22
6	A Lightweight Program Dependence Based Approach to Concurrent Mutation Analysis. , 2018, , .		3
7	Lprov. , 2018, , .		7
8	Cross-Layer Retrofitting of UAVs Against Cyber-Physical Attacks. , 2018, , .		21
9	A path-aware approach to mutant reduction in mutation testing. Information and Software Technology, 2017, 81, 65-81.	4.4	28
10	Software Numerical Instability Detection and Diagnosis by Combining Stochastic and Infinite-Precision Testing. IEEE Transactions on Software Engineering, 2017, 43, 975-994.	5.6	8
11	An Empirical Study on Mutation Testing of WS-BPEL Programs. Computer Journal, 2017, 60, 143-158.	2.4	5
12	How Do Developers Fix Cross-Project Correlated Bugs? A Case Study on the GitHub Scientific Python Ecosystem. , 2017, , .		49
13	Z3str2: an efficient solver for strings, regular expressions, and length constraints. Formal Methods in System Design, 2017, 50, 249-288.	0.8	31
14	UI driven Android application reduction. , 2017, , .		5
15	Analysis of SEAndroid Policies. , 2017, , .		15
16	ReRanz. ACM SIGPLAN Notices, 2017, 52, 143-156.	0.2	3
17	PAD: Programming third-party web advertisement censorship. , 2017, , .		2
18	ReRanz. , 2017, , .		14

#	ARTICLE	IF	CITATIONS
19	LEAPS: Detecting Camouflaged Attacks with Statistical Learning Guided by Program Analysis. , 2015, , .		26
20	Roundtable: Research Opportunities and Challenges for Emerging Software Systems. Journal of Computer Science and Technology, 2015, 30, 935-941.	1.5	1
21	Effective Search-Space Pruning for Solvers of String Equations, Regular Expressions and Length Constraints. Lecture Notes in Computer Science, 2015, , 235-254.	1.3	24
22	FACE-CHANGE: Application-Driven Dynamic Kernel View Switching in a Virtual Machine. , 2014, , .		19
23	DRIP: A framework for purifying trojaned kernel drivers. , 2013, , .		6
24	Identifying execution points for dynamic analyses. , 2013, , .		7
25	PIEtrace: Platform independent executable trace. , 2013, , .		2
26	Z3-str: a z3-based string solver for web application analysis. , 2013, , .		138
27	Path sensitive static analysis of web applications for remote code execution vulnerability detection. , 2013, , .		37
28	On-the-fly detection of instability problems in floating-point program execution. ACM SIGPLAN Notices, 2013, 48, 817-832.	0.2	14
29	White box sampling in uncertain data processing enabled by program analysis. , 2012, , .		14
30	Modeling Software Execution Environment. , 2012, , .		15
31	Precise Calling Context Encoding. IEEE Transactions on Software Engineering, 2012, 38, 1160-1177.	5.6	25
32	Static detection of resource contention problems in server-side scripts. , 2012, , .		13
33	IntroLib: Efficient and transparent library call introspection for malware forensics. Digital Investigation, 2012, 9, S13-S23.	3.2	16
34	Accentuating the positive. ACM SIGPLAN Notices, 2011, 46, 19-34.	0.2	4
35	Unified debugging of distributed systems with Recon. , 2011, , .		8
36	Locating faults using multiple spectra-specific models. , 2011, , .		26

#	ARTICLE	IF	CITATIONS
37	Analyzing multicore dumps to facilitate concurrency bug reproduction. , 2010, , .		51
38	Lightweight Task Graph Inference for Distributed Applications. , 2010, , .		3
39	Reverse Engineering Input Syntactic Structure from Program Execution and Its Applications. IEEE Transactions on Software Engineering, 2010, 36, 688-703.	5.6	19
40	Reuse-oriented camouflaging trojan: Vulnerability detection and attack construction. , 2010, , .		7
41	Analyzing multicore dumps to facilitate concurrency bug reproduction. ACM SIGPLAN Notices, 2010, 45, 155-166.	0.2	3
42	Alchemist: A Transparent Dependence Distance Profiling Infrastructure. , 2009, , .		58
43	A Systematic Study of Failure Proximity. IEEE Transactions on Software Engineering, 2008, 34, 826-843.	5.6	35
44	Efficient program execution indexing. , 2008, , .		65
45	Efficient program execution indexing. ACM SIGPLAN Notices, 2008, 43, 238-248.	0.2	9
46	Towards locating execution omission errors. ACM SIGPLAN Notices, 2007, 42, 415-424.	0.2	14
47	Towards locating execution omission errors. , 2007, , .		53
48	Efficient online detection of dynamic control dependence. , 2007, , .		42
49	Indexing Noncrashing Failures: A Dynamic Program Slicing-Based Approach. Conference on Software Maintenance, Proceedings of the, 2007, , .	0.0	6
50	Locating faulty code by multiple points slicing. Software - Practice and Experience, 2007, 37, 935-961.	3.6	22
51	A study of effectiveness of dynamic slicing in locating real faults. Empirical Software Engineering, 2007, 12, 143-160.	3.9	56
52	Whole Execution Traces and Their Use in Debugging. , 2007, , 4-1-4-17.		2
53	Locating faults through automated predicate switching. , 2006, , .		196
54	Pruning dynamic slices with confidence. , 2006, , .		98

#	ARTICLE	IF	CITATIONS
55	Matching execution histories of program versions. Software Engineering Notes: an Informal Newsletter of the Special Interest Committee on Software Engineering / ACM, 2005, 30, 197-206.	0.7	4
56	Cost and precision tradeoffs of dynamic data slicing algorithms. ACM Transactions on Programming Languages and Systems, 2005, 27, 631-661.	2.1	34
57	Experimental evaluation of using dynamic slices for fault location. , 2005, , .		102
58	Whole execution traces and their applications. Transactions on Architecture and Code Optimization, 2005, 2, 301-334.	2.0	38
59	Extended whole program paths. , 2005, , .		14
60	Locating faulty code using failure-inducing chops. , 2005, , .		133
61	Cost effective dynamic program slicing. ACM SIGPLAN Notices, 2004, 39, 94-106.	0.2	10
62	Precise dynamic slicing algorithms. , 2003, , .		24
63	Hiding program slices for software security. , 0, , .		6
64	Whole Execution Traces. , 0, , .		51
65	SENS: Security Enhancement to Symmetric Shared Memory Multiprocessors. , 0, , .		37
66	Efficient forward computation of dynamic slices using reduced ordered binary decision diagrams. , 0, , .		16