

Tao Xie

List of Publications by Year in descending order

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Version: 2024-02-01

110
papers

3,957
citations

448610

19
h-index

466096

32
g-index

114
all docs

114
docs citations

114
times ranked

2068
citing authors

#	ARTICLE	IF	CITATIONS
1	Delta Debugging Microservice Systems with Parallel Optimization. IEEE Transactions on Services Computing, 2022, 15, 16-29.	3.2	20
2	Finding Polluter Tests Using Java PathFinder. Software Engineering Notes: an Informal Newsletter of the Special Interest Committee on Software Engineering / ACM, 2021, 46, 37-41.	0.5	2
3	FinFuzzer: One Step Further in Fuzzing Fintech Systems. , 2021, , .		0
4	A Combinatorial Testing-Based Approach to Fault Localization. IEEE Transactions on Software Engineering, 2020, 46, 616-645.	4.3	29
5	iDFlakies: A Framework for Detecting and Partially Classifying Flaky Tests. , 2019, , .		82
6	Visualizing Path Exploration to Assist Problem Diagnosis for Structural Test Generation. , 2018, , .		1
7	A Platform Solution of Data-Quality Improvement for Internet-of-Vehicle Services. , 2018, , .		0
8	Intelligent Software Engineering: Synergy Between AI and Software Engineering. Lecture Notes in Computer Science, 2018, , 3-7.	1.0	7
9	Mining Android App Descriptions for Permission Requirements Recommendation. , 2018, , .		16
10	CarStream. Proceedings of the VLDB Endowment, 2017, 10, 1766-1777.	2.1	27
11	PerfRanker: prioritization of performance regression tests for collection-intensive software. , 2017, , .		31
12	Experience report on applying software analytics in incident management of online service. Automated Software Engineering, 2017, 24, 905-941.	2.2	18
13	To Be Optimal or Not in Test-Case Prioritization. IEEE Transactions on Software Engineering, 2016, 42, 490-505.	4.3	64
14	Advances in unit testing. , 2016, , .		11
15	High-confidence software evolution. Science China Information Sciences, 2016, 59, 1.	2.7	6
16	Demystifying the Imperfect Client-Side Cache Performance of Mobile Web Browsing. IEEE Transactions on Mobile Computing, 2016, 15, 2206-2220.	3.9	20
17	Program-input generation for testing database applications using existing database states. Automated Software Engineering, 2015, 22, 439-473.	2.2	9
18	Measurement and Analysis of Mobile Web Cache Performance. , 2015, , .		26

#	ARTICLE	IF	CITATIONS
19	User-aware privacy control via extended static-information-flow analysis. Automated Software Engineering, 2015, 22, 333-366.	2.2	7
20	Guest editorial: special section on mining software repositories. Empirical Software Engineering, 2015, 20, 291-293.	3.0	1
21	Where do developers log? an empirical study on logging practices in industry. , 2014, , .		161
22	Code hunt: searching for secret code for fun. , 2014, , .		53
23	Code hunt. , 2014, , .		23
24	Mining Historical Issue Repositories to Heal Large-Scale Online Service Systems. , 2014, , .		21
25	Guided test generation for database applications via synthesized database interactions. ACM Transactions on Software Engineering and Methodology, 2014, 23, 1-27.	4.8	26
26	Cooperative Software Testing and Analysis: Advances and Challenges. Journal of Computer Science and Technology, 2014, 29, 713-723.	0.9	24
27	Contextual analysis of program logs for understanding system behaviors. , 2013, , .		29
28	Teaching and learning programming and software engineering via interactive gaming. , 2013, , .		48
29	A comprehensive field study of end-user programming on mobile devices. , 2013, , .		10
30	Software Analytics in Practice. IEEE Software, 2013, 30, 30-37.	2.1	67
31	Educational software engineering: Where software engineering, education, and gaming meet. , 2013, , .		18
32	Characteristic studies of loop problems for structural test generation via symbolic execution. , 2013, , .		35
33	Software analytics for incident management of online services: An experience report. , 2013, , .		42
34	Pex4Fun: A web-based environment for educational gaming via automated test generation. , 2013, , .		8
35	Locating Need-to-Externalize Constant Strings for Software Internationalization with Generalized String-Taint Analysis. IEEE Transactions on Software Engineering, 2013, 39, 516-536.	4.3	11
36	XIAO. , 2012, , .		43

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37	Automating presentation changes in dynamic web applications via collaborative hybrid analysis. , 2012, , .		33
38	Healing online service systems via mining historical issue repositories. , 2012, , .		26
39	Pex4Fun: Teaching and Learning Computer Science via Social Gaming. , 2012, , .		46
40	Performance debugging in the large via mining millions of stack traces. , 2012, , .		87
41	Performance Issue Diagnosis for Online Service Systems. , 2012, , .		21
42	Paradigm in Verification of Access Control. , 2012, , .		0
43	Identifying Failure-Inducing Combinations in a Combinatorial Test Set. , 2012, , .		35
44	Engage Your Students by Teaching Computer Science Using Only Mobile Devices with TouchDevelop. , 2012, , .		4
45	Cooperative Testing and Analysis: Human-Tool, Tool-Tool and Human-Human Cooperations to Get Work Done. , 2012, , .		9
46	Inferring method specifications from natural language API descriptions. , 2012, , .		85
47	Making exceptions on exception handling. , 2012, , .		0
48	Advances on Improving Automation in Developer Testing. Advances in Computers, 2012, 85, 165-212.	1.2	8
49	Software analytics in practice: Mini tutorial. , 2012, , .		13
50	Environmental Modeling for Automated Cloud Application Testing. IEEE Software, 2012, 29, 30-35.	2.1	23
51	Systematic Structural Testing of Firewall Policies. IEEE Transactions on Network and Service Management, 2012, 9, 1-11.	3.2	8
52	Detecting Concurrency-Related Problematic Activity Arrangement in WS-BPEL Programs. , 2011, , .		3
53	Mining test oracles of web search engines. , 2011, , .		10
54	Iterative mining of resource-releasing specifications. , 2011, , .		22

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55	MODEL CHECKING FOR VERIFICATION OF MANDATORY ACCESS CONTROL MODELS AND PROPERTIES. International Journal of Software Engineering and Knowledge Engineering, 2011, 21, 103-127.	0.6	29
56	Generating program inputs for database application testing. , 2011, , .		37
57	Synthesizing method sequences for high-coverage testing. ACM SIGPLAN Notices, 2011, 46, 189-206.	0.2	23
58	Designing Fast and Scalable XACML Policy Evaluation Engines. IEEE Transactions on Computers, 2011, 60, 1802-1817.	2.4	56
59	Inferring specifications for resources from natural language API documentation. Automated Software Engineering, 2011, 18, 227-261.	2.2	17
60	Alattin: mining alternative patterns for defect detection. Automated Software Engineering, 2011, 18, 293-323.	2.2	15
61	Pex4Fun: Teaching and learning computer science via social gaming. , 2011, , .		31
62	DyTa. , 2011, , .		45
63	Testing software in age of data privacy. , 2011, , .		22
64	Precise identification of problems for structural test generation. , 2011, , .		60
65	Database state generation via dynamic symbolic execution for coverage criteria. , 2011, , .		21
66	Test input reduction for result inspection to facilitate fault localization. Automated Software Engineering, 2010, 17, 5-31.	2.2	51
67	ACPT: A Tool for Modeling and Verifying Access Control Policies. , 2010, , .		31
68	MODA. , 2010, , .		59
69	Future of developer testing. , 2010, , .		8
70	Test generation via Dynamic Symbolic Execution for mutation testing. , 2010, , .		86
71	Identifying security bug reports via text mining: An industrial case study. , 2010, , .		125
72	Guided test generation for coverage criteria. , 2010, , .		45

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73	Test selection for result inspection via mining predicate rules. , 2009, , .		11
74	Detection of Multiple-Duty-Related Security Leakage in Access Control Policies. , 2009, , .		6
75	Fault Localization for Firewall Policies. , 2009, , .		6
76	Mutation Analysis of Parameterized Unit Tests. , 2009, , .		8
77	Guided path exploration for regression test generation. , 2009, , .		8
78	Improving software quality via code searching and mining. , 2009, , .		11
79	Data Mining for Software Engineering. Computer, 2009, 42, 55-62.	1.2	97
80	Interactive Fault Localization Using Test Information. Journal of Computer Science and Technology, 2009, 24, 962-974.	0.9	38
81	TranStrL: An automatic need-to-translate string locator for software internationalization. , 2009, , .		14
82	Inferring Resource Specifications from Natural Language API Documentation. , 2009, , .		142
83	Locating need-to-translate constant strings for software internationalization. , 2009, , .		18
84	Mining exception-handling rules as sequence association rules. , 2009, , .		100
85	User-Perceived Service Availability: A Metric and an Estimation Approach. , 2009, , .		8
86	Fitness-guided path exploration in dynamic symbolic execution. , 2009, , .		159
87	An empirical study of testing file-system-dependent software with mock objects. , 2009, , .		31
88	Improving Structural Testing of Object-Oriented Programs via Integrating Evolutionary Testing and Symbolic Execution. , 2008, , .		105
89	DiffGen: Automated Regression Unit-Test Generation. , 2008, , .		61
90	Automated Generation of Pointcut Mutants for Testing Pointcuts in AspectJ Programs. , 2008, , .		27

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91	Systematic Structural Testing of Firewall Policies. , 2008, , .		15
92	Assessing Quality of Policy Properties in Verification of Access Control Policies. , 2008, , .		17
93	Improving software reliability and productivity via mining program source code. Parallel and Distributed Processing Symposium (IPDPS), Proceedings of the International Conference on, 2008, , .	1.0	11
94	Dynamic Availability Estimation for Service Selection Based on Status Identification. , 2008, , .		6
95	DSD-Crasher. ACM Transactions on Software Engineering and Methodology, 2008, 17, 1-37.	4.8	94
96	An approach to detecting duplicate bug reports using natural language and execution information. , 2008, , .		397
97	Xengine. , 2008, , .		65
98	Xengine. Performance Evaluation Review, 2008, 36, 265-276.	0.4	34
99	Automated Inference of Pointcuts in Aspect-Oriented Refactoring. Proceedings - International Conference on Software Engineering, 2007, , .	0.0	13
100	Towards a Framework for Differential Unit Testing of Object-Oriented Programs. , 2007, , .		20
101	Applying Interface-Contract Mutation in Regression Testing of Component-Based Software. Conference on Software Maintenance, Proceedings of the, 2007, , .	0.0	15
102	Conformance Checking of Access Control Policies Specified in XACML. Proceedings - IEEE Computer Society's International Computer Software and Applications Conference, 2007, , .	0.0	39
103	Efficient Mutant Generation for Mutation Testing of Pointcuts in Aspect-Oriented Programs. , 2006, , .		23
104	Effective Generation of Interface Robustness Properties for Static Analysis. , 2006, , .		5
105	Improving Effectiveness of Automated Software Testing in the Absence of Specifications. Conference on Software Maintenance, Proceedings of the, 2006, , .	0.0	2
106	An Empirical Comparison of Automated Generation and Classification Techniques for Object-Oriented Unit Testing. , 2006, , .		42
107	Tool-assisted unit-test generation and selection based on operational abstractions. Automated Software Engineering, 2006, 13, 345-371.	2.2	51
108	Mining Interface Specifications for Generating Checkable Robustness Properties. Software Reliability Engineering (ISSRE), Proceedings of the IEEE International Symposium on, 2006, , .	0.0	19

#	ARTICLE	IF	CITATIONS
109	Defining and Measuring Policy Coverage in Testing Access Control Policies. Lecture Notes in Computer Science, 2006, , 139-158.	1.0	45
110	Automatically Identifying Special and Common Unit Tests for Object-Oriented Programs. , 0, , .		4