

Annibale Panichella

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

1,611
citations

567144

15
h-index

610775

24
g-index

57
all docs

57
docs citations

57
times ranked

792
citing authors

#	ARTICLE	IF	CITATIONS
1	Automated Test Case Generation as a Many-Objective Optimisation Problem with Dynamic Selection of the Targets. IEEE Transactions on Software Engineering, 2018, 44, 122-158.	4.3	200
2	Reformulating Branch Coverage as a Many-Objective Optimization Problem. , 2015, , .		106
3	When, how, and why developers (do not) test in their IDEs. , 2015, , .		100
4	Improving Multi-Objective Test Case Selection by Injecting Diversity in Genetic Algorithms. IEEE Transactions on Software Engineering, 2015, 41, 358-383.	4.3	100
5	Testing autonomous cars for feature interaction failures using many-objective search. , 2018, , .		94
6	A textual-based technique for Smell Detection. , 2016, , .		74
7	The impact of test case summaries on bug fixing performance. , 2016, , .		71
8	On the impact of code smells on the energy consumption of mobile applications. Information and Software Technology, 2019, 105, 43-55.	3.0	70
9	Developer Testing in the IDE: Patterns, Beliefs, and Behavior. IEEE Transactions on Software Engineering, 2019, 45, 261-284.	4.3	59
10	The Scent of a Smell: An Extensive Comparison Between Textual and Structural Smells. IEEE Transactions on Software Engineering, 2018, 44, 977-1000.	4.3	47
11	A large scale empirical comparison of state-of-the-art search-based test case generators. Information and Software Technology, 2018, 104, 236-256.	3.0	47
12	Automatic test case generation: what if test code quality matters?. , 2016, , .		41
13	A Machine-Learning-Driven Evolutionary Approach for Testing Web Application Firewalls. IEEE Transactions on Reliability, 2018, 67, 733-757.	3.5	39
14	A Guided Genetic Algorithm for Automated Crash Reproduction. , 2017, , .		36
15	A Test Case Prioritization Genetic Algorithm Guided by the Hypervolume Indicator. IEEE Transactions on Software Engineering, 2020, 46, 674-696.	4.3	33
16	Labeling source code with information retrieval methods: an empirical study. Empirical Software Engineering, 2014, 19, 1383-1420.	3.0	32
17	Search-Based Crash Reproduction and Its Impact on Debugging. IEEE Transactions on Software Engineering, 2020, 46, 1294-1317.	4.3	30
18	A Systematic Comparison of search-Based approaches for LDA hyperparameter tuning. Information and Software Technology, 2021, 130, 106411.	3.0	29

#	ARTICLE	IF	CITATIONS
19	Continuous Delivery Practices in a Large Financial Organization. , 2016, , .		28
20	Java Unit Testing Tool Competition - Fifth Round. , 2017, , .		22
21	Java unit testing tool competition. , 2018, , .		19
22	Automatic Generation of Tests to Exploit XML Injection Vulnerabilities in Web Applications. IEEE Transactions on Software Engineering, 2019, 45, 335-362.	4.3	19
23	Serverless Testing: Tool Vendors' and Experts' Points of View. IEEE Software, 2021, 38, 54-60.	2.1	19
24	A systematic literature review of how mutation testing supports quality assurance processes. Software Testing Verification and Reliability, 2018, 28, e1675.	1.7	18
25	Effective and efficient API misuse detection via exception propagation and search-based testing. , 2019, , .		18
26	Revisiting Test Smells in Automatically Generated Tests: Limitations, Pitfalls, and Opportunities. , 2020, , .		18
27	Automatically Repairing Web Application Firewalls Based on Successful SQL Injection Attacks. , 2017, , .		15
28	Multi-objective Test Case Selection Through Linkage Learning-Based Crossover. Lecture Notes in Computer Science, 2021, , 87-102.	1.0	15
29	DeepTC-enhancer. , 2020, , .		15
30	Single and Multi-objective Test Cases Prioritization for Self-driving Cars in Virtual Environments. ACM Transactions on Software Engineering and Methodology, 2023, 32, 1-30.	4.8	15
31	An improved Pareto front modeling algorithm for large-scale many-objective optimization. , 2022, , .		15
32	Search-based multi-vulnerability testing of XML injections in web applications. Empirical Software Engineering, 2019, 24, 3696-3729.	3.0	11
33	Testing with Fewer Resources: An Adaptive Approach to Performance-Aware Test Case Generation. IEEE Transactions on Software Engineering, 2021, 47, 2332-2347.	4.3	11
34	EvoSuite at the SBST 2019 Tool Competition. , 2019, , .		11
35	Incremental Control Dependency Frontier Exploration for Many-Criteria Test Case Generation. Lecture Notes in Computer Science, 2018, , 309-324.	1.0	11
36	EvoSuite at the SBST 2020 Tool Competition. , 2020, , .		11

#	ARTICLE	IF	CITATIONS
37	Botsing, a search-based crash reproduction framework for Java. , 2020, , .		11
38	Large-Scale Inverse Design of a Planar On-Chip Mode Sorter. ACS Photonics, 2022, 9, 378-382.	3.2	11
39	Orthogonal exploration of the search space in evolutionary test case generation. , 2013, , .		10
40	Improving Test Case Generation for REST APIs Through Hierarchical Clustering. , 2021, , .		10
41	How to catch 'em all. , 2016, , .		9
42	Log-based slicing for system-level test cases. , 2021, , .		9
43	Generating highly-structured input data by combining search-based testing and grammar-based fuzzing. , 2020, , .		9
44	An Investigation of Compression Techniques to Speed up Mutation Testing. , 2018, , .		8
45	Evolutionary testing for crash reproduction. , 2016, , .		7
46	Good things come in threes. , 2020, , .		6
47	How to kill them all: An exploratory study on the impact of code observability on mutation testing. Journal of Systems and Software, 2021, 173, 110864.	3.3	4
48	ReproducedPapers.org: Openly Teaching and Structuring Machine Learning Reproducibility. Lecture Notes in Computer Science, 2021, , 3-11.	1.0	4
49	LIPS vs MOSA: A Replicated Empirical Study on Automated Test Case Generation. Lecture Notes in Computer Science, 2017, , 83-98.	1.0	4
50	Beyond Unit-Testing in Search-Based Test Case Generation: Challenges and Opportunities. , 2019, , .		3
51	Crash reproduction using helper objectives. , 2020, , .		2
52	SynTest-Solidity: Automated Test Case Generation and Fuzzing for Smart Contracts. , 2022, , .		1