

Rubing Huang

List of Publications by Year in descending order

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61
papers

463
citations

1040056

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61
all docs

61
docs citations

61
times ranked

203
citing authors

#	ARTICLE	IF	CITATIONS
1	Candidate test set reduction for adaptive random testing: An overheads reduction technique. Science of Computer Programming, 2022, 214, 102730.	1.9	3
2	A nearest-neighbor divide-and-conquer approach for adaptive random testing. Science of Computer Programming, 2022, 215, 102743.	1.9	3
3	Crop Disease Source Location and Monitoring System Based on Diffractive Light Identification Airborne Spore Sensor Network. IEEE Internet of Things Journal, 2022, 9, 11030-11042.	8.7	6
4	A Novel Test Case Generation Approach for Adaptive Random Testing of Object-Oriented Software Using K-Means Clustering Technique. IEEE Transactions on Emerging Topics in Computational Intelligence, 2022, 6, 969-981.	4.9	5
5	Summary of SWFC-ART: A Cost-effective Approach for Fixed-Size-Candidate-Set Adaptive Random Testing through Small World Graphs. , 2022, , .		0
6	A Survey on Adaptive Random Testing. IEEE Transactions on Software Engineering, 2021, 47, 2052-2083.	5.6	55
7	Covering Array Constructors: An Experimental Analysis of Their Interaction Coverage and Fault Detection. Computer Journal, 2021, 64, 762-788.	2.4	2
8	Identification of Failure Regions for Programs With Numeric Inputs. IEEE Transactions on Emerging Topics in Computational Intelligence, 2021, 5, 651-667.	4.9	2
9	Which type of exclusion region is better for restricted random testing?. , 2021, , .		0
10	An efficient outlier detection method for data streams based on closed frequent patterns by considering anti-monotonic constraints. Information Sciences, 2021, 555, 125-146.	6.9	8
11	SWFC-ART: A cost-effective approach for Fixed-Size-Candidate-Set Adaptive Random Testing through small world graphs. Journal of Systems and Software, 2021, 180, 111008.	4.5	3
12	KD-RRT: Restricted Random Testing based on K-Dimensional Tree. , 2021, , .		2
13	Abstract Test Case Prioritization Using Repeated Small-Strength Level-Combination Coverage. IEEE Transactions on Reliability, 2020, 69, 349-372.	4.6	9
14	Poster: Is Euclidean Distance the best Distance Measurement for Adaptive Random Testing?. , 2020, , .		10
15	FSCS-SIMD: An efficient implementation of Fixed-Size-Candidate-Set adaptive random testing using SIMD instructions. , 2020, , .		3
16	Regression test case prioritization by code combinations coverage. Journal of Systems and Software, 2020, 169, 110712.	4.5	18
17	Exploiting the Largest Available Zone: A Proactive Approach to Adaptive Random Testing by Exclusion. IEEE Access, 2020, 8, 52475-52488.	4.2	2
18	Adaptive random testing based on flexible partitioning. IET Software, 2020, 14, 493-505.	2.1	4

#	ARTICLE	IF	CITATIONS
19	Enhancing FSCS-ART through Test Input Quantization and Inverted Lists. , 2020, , .		0
20	Toward a K-means clustering approach to adaptive random testing for object-oriented software. Science China Information Sciences, 2019, 62, 1.	4.3	7
21	Improving the Accuracy of Vulnerability Report Classification Using Term Frequency-Inverse Gravity Moment. , 2019, , .		10
22	A Modified Similarity Metric for Unit Testing of Object-Oriented Software Based on Adaptive Random Testing. International Journal of Software Engineering and Knowledge Engineering, 2019, 29, 577-606.	0.8	2
23	One-Domain-One-Input: Adaptive Random Testing by Orthogonal Recursive Bisection With Restriction. IEEE Transactions on Reliability, 2019, 68, 1404-1428.	4.6	11
24	Labelling issue reports in mobile apps. IET Software, 2019, 13, 528-542.	2.1	3
25	Prioritising abstract test cases: an empirical study. IET Software, 2019, 13, 313-326.	2.1	2
26	Random Border Mirror Transform: A Diversity Based Approach to an Effective and Efficient Mirror Adaptive Random Testing. , 2019, , .		1
27	Test case prioritization for object-oriented software: An adaptive random sequence approach based on clustering. Journal of Systems and Software, 2018, 135, 107-125.	4.5	58
28	On the Selection of Strength for Fixed-Strength Interaction Coverage Based Prioritization. , 2018, , .		2
29	An Empirical Comparison of Fixed-Strength and Mixed-Strength for Interaction Coverage Based Prioritization. IEEE Access, 2018, 6, 68350-68372.	4.2	4
30	An experimental analysis of fault detection capabilities of covering array constructors. , 2018, , .		0
31	A cost-effective adaptive random testing approach by dynamic restriction. IET Software, 2018, 12, 489-497.	2.1	3
32	Efficient vulnerability detection based on an optimized rule-checking static analysis technique. Frontiers of Information Technology and Electronic Engineering, 2017, 18, 332-345.	2.6	10
33	A Similarity Metric for the Inputs of OO Programs and Its Application in Adaptive Random Testing. IEEE Transactions on Reliability, 2017, 66, 373-402.	4.6	25
34	An Empirical Examination of Abstract Test Case Prioritization Techniques. , 2017, , .		11
35	Detecting Implicit Security Exceptions Using an Improved Variable-Length Sequential Pattern Mining Method. International Journal of Software Engineering and Knowledge Engineering, 2017, 27, 1235-1268.	0.8	1
36	An Empirical Comparison of Similarity Measures for Abstract Test Case Prioritization. , 2017, , .		8

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37	Prioritizing random combinatorial test suites. , 2017, , .		2
38	Distributed API Protocol Mining. , 2017, , .		0
39	An approach of security testing for third-party component based on state mutation. Security and Communication Networks, 2016, 9, 2827-2842.	1.5	5
40	An Adaptive Sequence Approach for OOS Test Case Prioritization. , 2016, , .		8
41	An effective long string searching algorithm towards component security testing. China Communications, 2016, 13, 153-169.	3.2	3
42	Prioritizing Interaction Test Suites Using Repeated Base Choice Coverage. , 2016, , .		8
43	An improved string-searching algorithm and its application in component security testing. Tsinghua Science and Technology, 2016, 21, 281-294.	6.1	4
44	Enhancing mirror adaptive random testing through dynamic partitioning. Information and Software Technology, 2015, 67, 13-29.	4.4	27
45	Mining Class Temporal Specification Dynamically Based on Extended Markov Model. International Journal of Software Engineering and Knowledge Engineering, 2015, 25, 573-604.	0.8	4
46	Aggregate-strength interaction test suite prioritization. Journal of Systems and Software, 2015, 99, 36-51.	4.5	16
47	Adaptive Random Testing with Combinatorial Input Domain. Scientific World Journal, The, 2014, 2014, 1-16.	2.1	4
48	Network-Based Analysis of Software Change Propagation. Scientific World Journal, The, 2014, 2014, 1-10.	2.1	6
49	Clustering Analysis of Function Call Sequence for Regression Test Case Reduction. International Journal of Software Engineering and Knowledge Engineering, 2014, 24, 1197-1223.	0.8	2
50	Adaptive random prioritization for interaction test suites. , 2014, , .		10
51	Worst-input mutation approach to web services vulnerability testing based on SOAP messages. Tsinghua Science and Technology, 2014, 19, 429-441.	6.1	9
52	New Metrics for Prioritized Interaction Test Suites. IEICE Transactions on Information and Systems, 2014, E97.D, 830-841.	0.7	3
53	Parallelizing Probabilistic Streaming Skyline Operator in Cloud Computing Environments. , 2013, , .		2
54	Describing Component Behavior Using Improved Chemical Abstract Machine. , 2013, , .		0

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55	Failure-detection capability analysis of implementing parallelism in adaptive random testing algorithms. , 2013, , .		3
56	Design of binary BiCMOS sequential circuit based on NPN-NPN drive circuit. , 2013, , .		0
57	Prioritizing Variable-Strength Covering Array. , 2013, , .		13
58	PRIORITIZATION OF COMBINATORIAL TEST CASES BY INCREMENTAL INTERACTION COVERAGE. International Journal of Software Engineering and Knowledge Engineering, 2013, 23, 1427-1457.	0.8	17
59	An Approach of Vulnerability Testing for Third-Party Component Based on Condition and Parameter Mutation. Scientific World Journal, The, 2013, 2013, 1-11.	2.1	1
60	Adaptive Random Test Case Generation for Combinatorial Testing. , 2012, , .		20
61	Dissimilarityâ€based test case prioritization through data fusion. Software - Practice and Experience, 0, , .	3.6	3