Jinfu Chen

List of Publications by Year
in descending order

84 papers	600 citations	858243 12 h-index	889612 19 g-index
84 all docs	84 docs citations	84 times ranked	427 citing authors

#	Article	IF	Citations
1	Test case prioritization for object-oriented software: An adaptive random sequence approach based on clustering. Journal of Systems and Software, 2018, 135, 107-125.	3.3	58
2	Search-based QoS ranking prediction for web services in cloud environments. Future Generation Computer Systems, 2015, 50, 111-126.	4.9	39
3	Enhancing mirror adaptive random testing through dynamic partitioning. Information and Software Technology, 2015, 67, 13-29.	3.0	27
4	A Similarity Metric for the Inputs of OO Programs and Its Application in Adaptive Random Testing. IEEE Transactions on Reliability, 2017, 66, 373-402.	3.5	25
5	A Mining Approach to Obtain the Software Vulnerability Characteristics. , 2017, , .		25
6	A Web services vulnerability testing approach based on combinatorial mutation and SOAP message mutation. Service Oriented Computing and Applications, 2014, 8, 1-13.	1.3	24
7	An empirical comparison of commercial and openâ€source web vulnerability scanners. Software - Practice and Experience, 2020, 50, 1842-1857.	2.5	24
8	Maximum Neighborhood Margin Discriminant Projection for Classification. Scientific World Journal, The, 2014, 2014, 1-16.	0.8	18
9	Regression test case prioritization by code combinations coverage. Journal of Systems and Software, 2020, 169, 110712.	3.3	18
10	Generating Test Data for Structural Testing Based on Ant Colony Optimization. , 2012, , .		17
11	PRIORITIZATION OF COMBINATORIAL TEST CASES BY INCREMENTAL INTERACTION COVERAGE. International Journal of Software Engineering and Knowledge Engineering, 2013, 23, 1427-1457.	0.6	17
12	An automatic software vulnerability classification framework using term frequency-inverse gravity moment and feature selection. Journal of Systems and Software, 2020, 167, 110616.	3.3	17
13	Aggregate-strength interaction test suite prioritization. Journal of Systems and Software, 2015, 99, 36-51.	3.3	16
14	The effect of Bellwether analysis on software vulnerability severity prediction models. Software Quality Journal, 2020, 28, 1413-1446.	1.4	14
15	Prioritizing Variable-Strength Covering Array. , 2013, , .		13
16	An Empirical Examination of Abstract Test Case Prioritization Techniques. , 2017, , .		11
17	One-Domain-One-Input: Adaptive Random Testing by Orthogonal Recursive Bisection With Restriction. IEEE Transactions on Reliability, 2019, 68, 1404-1428.	3.5	11
18	Improving the Accuracy of Vulnerability Report Classification Using Term Frequency-Inverse Gravity Moment. , 2019, , .		10

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19	A Novel Fuzzy PID Congestion Control Model Based on Cuckoo Search in WSNs. Sensors, 2020, 20, 1862.	2.1	10
20	COMPONENT SECURITY TESTING APPROACH BASED ON EXTENDED CHEMICAL ABSTRACT MACHINE. International Journal of Software Engineering and Knowledge Engineering, 2012, 22, 59-83.	0.6	9
21	Worst-input mutation approach to web services vulnerability testing based on SOAP messages. Tsinghua Science and Technology, 2014, 19, 429-441.	4.1	9
22	A Method for Software Vulnerability Detection Based on Improved Control Flow Graph. Wuhan University Journal of Natural Sciences, 2019, 24, 149-160.	0.2	9
23	Abstract Test Case Prioritization Using Repeated Small-Strength Level-Combination Coverage. IEEE Transactions on Reliability, 2020, 69, 349-372.	3.5	9
24	A Smart City System Architecture based on City-level Data Exchange Platform. Journal of Information Technology Research, 2015, 8, 1-25.	0.3	8
25	An Adaptive Sequence Approach for OOS Test Case Prioritization. , 2016, , .		8
26	Prioritizing Interaction Test Suites Using Repeated Base Choice Coverage. , 2016, , .		8
27	An Empirical Comparison of Similarity Measures for Abstract Test Case Prioritization. , 2017, , .		8
28	An efficient outlier detection method for data streams based on closed frequent patterns by considering anti-monotonic constraints. Information Sciences, 2021, 555, 125-146.	4.0	8
29	An Automatic Vulnerability Scanner for Web Applications. , 2020, , .		8
30	Toward a K-means clustering approach to adaptive random testing for object-oriented software. Science China Information Sciences, 2019, 62, 1.	2.7	7
31	An approach of security testing for thirdâ€party component based on state mutation. Security and Communication Networks, 2016, 9, 2827-2842.	1.0	5
32	The Significant Effect of Parameter Tuning on Software Vulnerability Prediction Models. , 2019, , .		5
33	An automated framework for evaluating open-source web scanner vulnerability severity. Service Oriented Computing and Applications, 2020, 14, 297-307.	1.3	5
34	An efficient anomaly detection method for uncertain data based on minimal rare patterns with the consideration of anti-monotonic constraints. Information Sciences, 2021, 580, 620-642.	4.0	5
35	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.	3.4	5
36	MWFP-outlier: Maximal weighted frequent-pattern-based approach for detecting outliers from uncertain weighted data streams. Information Sciences, 2022, 591, 195-225.	4.0	5

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37	Adaptive Random Testing with Combinatorial Input Domain. Scientific World Journal, The, 2014, 2014, 1-16.	0.8	4
38	Low Level Segmentation of Motion Capture Data Based on Cosine Distance. , 2015, , .		4
39	An Empirical Comparison of Fixed-Strength and Mixed-Strength for Interaction Coverage Based Prioritization. IEEE Access, 2018, 6, 68350-68372.	2.6	4
40	Elimination by Linear Association: An Effective and Efficient Static Mirror Adaptive Random Testing. IEEE Access, 2019, 7, 71038-71060.	2.6	4
41	Adaptive random testing based on flexible partitioning. IET Software, 2020, 14, 493-505.	1.5	4
42	Combinatorial Mutation Approach to Web Service Vulnerability Testing Based on SOAP Message Mutations. , 2012, , .		3
43	New Metrics for Prioritized Interaction Test Suites. IEICE Transactions on Information and Systems, 2014, E97.D, 830-841.	0.4	3
44	An effective long string searching algorithm towards component security testing. China Communications, 2016, 13, 153-169.	2.0	3
45	A Vulnerability Model Construction Method Based on Chemical Abstract Machine. Wuhan University Journal of Natural Sciences, 2018, 23, 150-162.	0.2	3
46	A costâ€effective adaptive random testing approach by dynamic restriction. IET Software, 2018, 12, 489-497.	1.5	3
47	The Effect of Weighted Moving Windows on Security Vulnerability Prediction. , 2019, , .		3
48	An Efficient Approach Based on Parameter Optimization for Network Traffic Classification Using Machine Learning. , 2020, , .		3
49	ä¸€ç§åŸºäºŽç‰¹å¾é€‰æ‹©ä¸Žè¿ç§»å¦ä¹ çš„åº¦é‡è¡¥å¿è½¯ä»¶ç¼ºé™·é¢„æµ‹æ–¹æ³•. Frontiers of Information Technology and Elec	1.5	3
50	A Quantitative Assessment Approach to COTS Component Security. Mathematical Problems in Engineering, 2013, 2013, 1-11.	0.6	2
51	On the Selection of Strength for Fixed-Strength Interaction Coverage Based Prioritization. , 2018, , .		2
52	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.	0.6	2
53	Prioritising abstract test cases: an empirical study. IET Software, 2019, 13, 313-326.	1.5	2
54	Exploiting the Largest Available Zone: A Proactive Approach to Adaptive Random Testing by Exclusion. IEEE Access, 2020, 8, 52475-52488.	2.6	2

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55	Covering Array Constructors: An Experimental Analysis of Their Interaction Coverage and Fault Detection. Computer Journal, 2021, 64, 762-788.	1.5	2
56	Identification of Failure Regions for Programs With Numeric Inputs. IEEE Transactions on Emerging Topics in Computational Intelligence, 2021, 5, 651-667.	3.4	2
57	Minimal Rare Pattern-Based Outlier Detection Approach For Uncertain Data Streams Under Monotonic Constraints. Computer Journal, 2023, 66, 16-34.	1.5	2
58	An Approach Based on the Improved SVM Algorithm for Identifying Malware in Network Traffic. Security and Communication Networks, 2021, 2021, 1-14.	1.0	2
59	Prioritizing random combinatorial test suites. , 2017, , .		2
60	An Automatic Testing Platform for Object-oriented Software based on Code Coverage. , 2019, , .		2
61	A Proactive Approach to Test Case Selection â€" An Efficient Implementation of Adaptive Random Testing. International Journal of Software Engineering and Knowledge Engineering, 2020, 30, 1169-1198.	0.6	2
62	An Automatic Vulnerability Classification System for IoT Softwares. , 2020, , .		2
63	An improved fuzzing approach based on adaptive random testing. , 2020, , .		2
64	L-KPCA: an efficient feature extraction method for network intrusion detection. , 2021, , .		2
65	An Approach of Vulnerability Testing for Third-Party Component Based on Condition and Parameter Mutation. Scientific World Journal, The, 2013, 2013, 1-11.	0.8	1
66	A new method to construct the software vulnerability model. , 2017, , .		1
67	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.	0.6	1
68	Random Border Mirror Transform: A Diversity Based Approach to an Effective and Efficient Mirror Adaptive Random Testing. , 2019, , .		1
69	A Detection Approach for Vulnerability Exploiter Based on the Features of the Exploiter. Security and Communication Networks, 2021, 2021, 1-14.	1.0	1
70	An Approach to Determine the Optimal k-Value of K-means Clustering in Adaptive Random Testing. , 2020, , .		1
71	KS-TCP: An Efficient Test Case Prioritization Approach based on K-medoids and Similarity. , 2021, , .		1
72	An efficient dual ensemble software defect prediction method with neural network. , 2021, , .		1

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73	MMFC-ART: a Fixed-size-Candidate-set Adaptive Random Testing approach based on the modified Metric-Memory tree. , 2021, , .		1
74	An Efficient Network Intrusion Detection Model Based on Temporal Convolutional Networks. , 2021, , .		1
75	Malware recognition approach based on selfâ€similarity and an improved clustering algorithm. IET Software, 2022, 16, 527-541.	1.5	1
76	Diagnosing Web Services System Based on Execution Traces Pattern Analysis. , 2011, , .		0
77	Describing Component Behavior Using Improved Chemical Abstract Machine. , 2013, , .		0
78	An Integration Testing Platform for Software Vulnerability Detection Method. , 2017, , .		0
79	Malicious Intentions: Android Internet Permission Security Risks. Lecture Notes in Computer Science, 2019, , 111-120.	1.0	0
80	A Malware Identification Approach Based on Improved SVM in Network Traffic. , 2020, , .		0
81	An Efficient Outlier Detection Approach for Streaming Sensor Data Based on Neighbor Difference and Clustering. Security and Communication Networks, 2022, 2022, 1-14.	1.0	0
82	A Test Case Generation Method of Combinatorial Testing based on Ï„-way Testing with Adaptive Random Testing. , 2021, , .		0
83	Fuzzing Methods Recommendation Based on Feature Vectors. , 2021, , .		0
84	An Adaptive Random Test Method based on Variable Probability Density Function with Particle Swarm Optimization. , 2021, , .		0