

Jinfu Chen

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3891660/publications.pdf>

Version: 2024-02-01

84
papers

600
citations

759233

12
h-index

794594

19
g-index

84
all docs

84
docs citations

84
times ranked

382
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. | 4.5 | 58 |
| 2 | Search-based QoS ranking prediction for web services in cloud environments. Future Generation Computer Systems, 2015, 50, 111-126. | 7.5 | 39 |
| 3 | Enhancing mirror adaptive random testing through dynamic partitioning. Information and Software Technology, 2015, 67, 13-29. | 4.4 | 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. | 4.6 | 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. | 1.6 | 24 |
| 7 | An empirical comparison of commercial and open-source web vulnerability scanners. Software - Practice and Experience, 2020, 50, 1842-1857. | 3.6 | 24 |
| 8 | Maximum Neighborhood Margin Discriminant Projection for Classification. Scientific World Journal, The, 2014, 2014, 1-16. | 2.1 | 18 |
| 9 | Regression test case prioritization by code combinations coverage. Journal of Systems and Software, 2020, 169, 110712. | 4.5 | 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. | 0.8 | 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. | 4.5 | 17 |
| 13 | Aggregate-strength interaction test suite prioritization. Journal of Systems and Software, 2015, 99, 36-51. | 4.5 | 16 |
| 14 | The effect of Bellwether analysis on software vulnerability severity prediction models. Software Quality Journal, 2020, 28, 1413-1446. | 2.2 | 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. | 4.6 | 11 |
| 18 | Improving the Accuracy of Vulnerability Report Classification Using Term Frequency-Inverse Gravity Moment. , 2019, , . | | 10 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | A Novel Fuzzy PID Congestion Control Model Based on Cuckoo Search in WSNs. Sensors, 2020, 20, 1862. | 3.8 | 10 |
| 20 | COMPONENT SECURITY TESTING APPROACH BASED ON EXTENDED CHEMICAL ABSTRACT MACHINE. International Journal of Software Engineering and Knowledge Engineering, 2012, 22, 59-83. | 0.8 | 9 |
| 21 | Worst-input mutation approach to web services vulnerability testing based on SOAP messages. Tsinghua Science and Technology, 2014, 19, 429-441. | 6.1 | 9 |
| 22 | A Method for Software Vulnerability Detection Based on Improved Control Flow Graph. Wuhan University Journal of Natural Sciences, 2019, 24, 149-160. | 0.4 | 9 |
| 23 | Abstract Test Case Prioritization Using Repeated Small-Strength Level-Combination Coverage. IEEE Transactions on Reliability, 2020, 69, 349-372. | 4.6 | 9 |
| 24 | A Smart City System Architecture based on City-level Data Exchange Platform. Journal of Information Technology Research, 2015, 8, 1-25. | 0.5 | 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. | 6.9 | 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. | 4.3 | 7 |
| 31 | An approach of security testing for third-party component based on state mutation. Security and Communication Networks, 2016, 9, 2827-2842. | 1.5 | 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. | 1.6 | 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. | 6.9 | 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. | 4.9 | 5 |
| 36 | MWFP-outlier: Maximal weighted frequent-pattern-based approach for detecting outliers from uncertain weighted data streams. Information Sciences, 2022, 591, 195-225. | 6.9 | 5 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Adaptive Random Testing with Combinatorial Input Domain. Scientific World Journal, The, 2014, 2014, 1-16. | 2.1 | 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. | 4.2 | 4 |
| 40 | Elimination by Linear Association: An Effective and Efficient Static Mirror Adaptive Random Testing. IEEE Access, 2019, 7, 71038-71060. | 4.2 | 4 |
| 41 | Adaptive random testing based on flexible partitioning. IET Software, 2020, 14, 493-505. | 2.1 | 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. | 0.7 | 3 |
| 44 | An effective long string searching algorithm towards component security testing. China Communications, 2016, 13, 153-169. | 3.2 | 3 |
| 45 | A Vulnerability Model Construction Method Based on Chemical Abstract Machine. Wuhan University Journal of Natural Sciences, 2018, 23, 150-162. | 0.4 | 3 |
| 46 | A cost-effective adaptive random testing approach by dynamic restriction. IET Software, 2018, 12, 489-497. | 2.1 | 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,çšă°žç%1ă¾éç%æ©ăžèçš»ă ă¹çš,,ă° éîè ŷăžè½-ă»ŕç¼¼é™-éç,,æµ«æ-1æ³•. Frontiers of Information Technology and Electronics Engineering, 2019, 12, 1-11. | | 3 |
| 50 | A Quantitative Assessment Approach to COTS Component Security. Mathematical Problems in Engineering, 2013, 2013, 1-11. | 1.1 | 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. | 0.8 | 2 |
| 53 | Prioritising abstract test cases: an empirical study. IET Software, 2019, 13, 313-326. | 2.1 | 2 |
| 54 | Exploiting the Largest Available Zone: A Proactive Approach to Adaptive Random Testing by Exclusion. IEEE Access, 2020, 8, 52475-52488. | 4.2 | 2 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | Covering Array Constructors: An Experimental Analysis of Their Interaction Coverage and Fault Detection. Computer Journal, 2021, 64, 762-788. | 2.4 | 2 |
| 56 | Identification of Failure Regions for Programs With Numeric Inputs. IEEE Transactions on Emerging Topics in Computational Intelligence, 2021, 5, 651-667. | 4.9 | 2 |
| 57 | Minimal Rare Pattern-Based Outlier Detection Approach For Uncertain Data Streams Under Monotonic Constraints. Computer Journal, 2023, 66, 16-34. | 2.4 | 2 |
| 58 | An Approach Based on the Improved SVM Algorithm for Identifying Malware in Network Traffic. Security and Communication Networks, 2021, 2021, 1-14. | 1.5 | 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 “An Efficient Implementation of Adaptive Random Testing. International Journal of Software Engineering and Knowledge Engineering, 2020, 30, 1169-1198. | 0.8 | 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. | 2.1 | 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. | 0.8 | 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. | 1.5 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 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 self-similarity and an improved clustering algorithm. IET Software, 2022, 16, 527-541. | 2.1 | 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. | 1.3 | 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. | 1.5 | 0 |
| 82 | A Test Case Generation Method of Combinatorial Testing based on \bar{t} -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 |