

Bestoun S Ahmed

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

1,392
citations

361296

20
h-index

360920

35
g-index

71
all docs

71
docs citations

71
times ranked

728
citing authors

#	ARTICLE	IF	CITATIONS
1	A new multiobjective performance criterion used in PID tuning optimization algorithms. Journal of Advanced Research, 2016, 7, 125-134.	4.4	114
2	Application of Particle Swarm Optimization to uniform and variable strength covering array construction. Applied Soft Computing Journal, 2012, 12, 1330-1347.	4.1	84
3	A variable strength interaction test suites generation strategy using Particle Swarm Optimization. Journal of Systems and Software, 2011, 84, 2171-2185.	3.3	81
4	Achievement of minimized combinatorial test suite for configuration-aware software functional testing using the Cuckoo Search algorithm. Information and Software Technology, 2015, 66, 13-29.	3.0	80
5	An experimental study of hyper-heuristic selection and acceptance mechanism for combinatorial t-way test suite generation. Information Sciences, 2017, 399, 121-153.	4.0	71
6	From concept drift to model degradation: An overview on performance-aware drift detectors. Knowledge-Based Systems, 2022, 245, 108632.	4.0	61
7	IoT anomaly detection methods and applications: A survey. Internet of Things (Netherlands), 2022, 19, 100568.	4.9	57
8	A hybrid Q-learning sine-cosine-based strategy for addressing the combinatorial test suite minimization problem. PLoS ONE, 2018, 13, e0195675.	1.1	56
9	The role of intelligent generation control algorithms in optimizing battery energy storage systems size in microgrids: A case study from Western Australia. Energy Conversion and Management, 2019, 196, 1335-1352.	4.4	51
10	Fuzzy adaptive teaching learning-based optimization strategy for the problem of generating mixed strength t-way test suites. Engineering Applications of Artificial Intelligence, 2017, 59, 35-50.	4.3	47
11	Hybrid flower pollination algorithm strategies for t-way test suite generation. PLoS ONE, 2018, 13, e0195187.	1.1	44
12	An efficient strategy for covering array construction with fuzzy logic-based adaptive swarm optimization for software testing use. Expert Systems With Applications, 2015, 42, 8753-8765.	4.4	43
13	Constrained Interaction Testing: A Systematic Literature Study. IEEE Access, 2017, 5, 25706-25730.	2.6	41
14	Aspects of Quality in Internet of Things (IoT) Solutions: A Systematic Mapping Study. IEEE Access, 2019, 7, 13758-13780.	2.6	41
15	Handling constraints in combinatorial interaction testing in the presence of multi objective particle swarm and multithreading. Information and Software Technology, 2017, 86, 20-36.	3.0	40
16	Test case minimization approach using fault detection and combinatorial optimization techniques for configuration-aware structural testing. Engineering Science and Technology, an International Journal, 2016, 19, 737-753.	2.0	38
17	PSTG: A T-Way Strategy Adopting Particle Swarm Optimization. , 2010, , .		32
18	Tapir: Automation Support of Exploratory Testing Using Model Reconstruction of the System Under Test. IEEE Transactions on Reliability, 2018, 67, 557-580.	3.5	32

#	ARTICLE	IF	CITATIONS
19	The Development of a Particle Swarm Based Optimization Strategy for Pairwise Testing. Journal of Artificial Intelligence, 2011, 4, 156-165.	0.7	28
20	AMOGA: A Static-Dynamic Model Generation Strategy for Mobile Apps Testing. IEEE Access, 2019, 7, 17158-17173.	2.6	24
21	Generating combinatorial test cases using Simplified Swarm Optimization (SSO) algorithm for automated GUI functional testing. Engineering Science and Technology, an International Journal, 2014, 17, 218-226.	2.0	22
22	A Review of Covering Arrays and Their Application to Software Testing. Journal of Computer Science, 2011, 7, 1375-1385.	0.5	17
23	Software Module Clustering: An In-Depth Literature Analysis. IEEE Transactions on Software Engineering, 2022, 48, 1905-1928.	4.3	17
24	Testing the Usability and Accessibility of Smart TV Applications Using an Automated Model-Based Approach. IEEE Transactions on Consumer Electronics, 2020, 66, 134-143.	3.0	16
25	An evolutionary harmony search algorithm with dominant point detection for recognition-based segmentation of online Arabic text recognition. Ain Shams Engineering Journal, 2014, 5, 1129-1139.	3.5	15
26	Application of Combinatorial Interaction Design for DC Servomotor PID Controller Tuning. Journal of Control Science and Engineering, 2014, 2014, 1-7.	0.8	14
27	An evaluation of Monte Carlo-based hyper-heuristic for interaction testing of industrial embedded software applications. Soft Computing, 2020, 24, 13929-13954.	2.1	14
28	Internet of Things: Current Challenges in the Quality Assurance and Testing Methods. Lecture Notes in Electrical Engineering, 2019, , 625-634.	0.3	14
29	An elitist-flower pollination-based strategy for constructing sequence and sequence-less t-way test suite. International Journal of Bio-Inspired Computation, 2018, 12, 115.	0.6	13
30	Interoperability and Integration Testing Methods for IoT Systems: A Systematic Mapping Study. Lecture Notes in Computer Science, 2020, , 93-112.	1.0	13
31	On the Effectiveness of Combinatorial Interaction Testing: A Case Study. , 2017, , .		11
32	Optimum Design of PI ^λ D ^μ Controller for an Automatic Voltage Regulator System Using Combinatorial Test Design. PLoS ONE, 2016, 11, e0166150.	1.1	10
33	Employment of multiple algorithms for optimal path-based test selection strategy. Information and Software Technology, 2019, 114, 21-36.	3.0	10
34	Testing of Smart TV Applications: Key Ingredients, Challenges and Proposed Solutions. Advances in Intelligent Systems and Computing, 2019, , 241-256.	0.5	10
35	T-Way Test Data Generation Strategy Based on Particle Swarm Optimization. , 2010, , .		9
36	Hybrid Henry gas solubility optimization algorithm with dynamic cluster-to-algorithm mapping. Neural Computing and Applications, 2021, 33, 8389-8416.	3.2	9

#	ARTICLE	IF	CITATIONS
37	A Greedy Particle Swarm Optimization Strategy for T-way Software Testing. Journal of Artificial Intelligence, 2012, 5, 85-90.	0.7	9
38	EvoCreeper: Automated Black-Box Model Generation for Smart TV Applications. IEEE Transactions on Consumer Electronics, 2019, 65, 160-169.	3.0	8
39	Review of Specific Features and Challenges in the Current Internet of Things Systems Impacting Their Security and Reliability. Advances in Intelligent Systems and Computing, 2021, , 546-556.	0.5	8
40	A systematic review on emperor penguin optimizer. Neural Computing and Applications, 0, , 1.	3.2	7
41	A Comprehensive View on Quality Characteristics of the IoT Solutions. EAI/Springer Innovations in Communication and Computing, 2020, , 59-69.	0.9	7
42	Code-aware combinatorial interaction testing. IET Software, 2019, 13, 600-609.	1.5	6
43	An Automated Testing Framework For Smart TV apps Based on Model Separation. , 2020, , .		6
44	PatrIoT: IoT Automated Interoperability and Integration Testing Framework. , 2021, , .		6
45	Fuzzy adaptive tuning of a particle swarm optimization algorithm for variable-strength combinatorial test suite generation. , 2018, , 639-662.		6
46	Using the combinatorial optimization approach for DVS in high performance processors. , 2013, , .		4
47	Pattern Matching Based Sensor Identification Layer for an Android Platform. Wireless Communications and Mobile Computing, 2018, 2018, 1-11.	0.8	4
48	Prioritized Process Test: An Alternative to Current Process Testing Strategies. International Journal of Software Engineering and Knowledge Engineering, 2019, 29, 997-1028.	0.6	4
49	Dynamic Solution Probability Acceptance Within the Flower Pollination Algorithm for Combinatorial t-Way Test Suite Generation. Lecture Notes in Networks and Systems, 2019, , 3-11.	0.5	4
50	Quality and Reliability Metrics for IoT Systems: A Consolidated View. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2021, , 635-650.	0.2	4
51	Comparison of metaheuristic test generation strategies based on interaction elements coverage criterion. , 2011, , .		3
52	Software Module Clustering Based on the Fuzzy Adaptive Teaching Learning Based Optimization Algorithm. Lecture Notes in Networks and Systems, 2019, , 167-177.	0.5	3
53	Generation and Application of Constrained Interaction Test Suites Using Base Forbidden Tuples with a Mixed Neighborhood Tabu Search. International Journal of Software Engineering and Knowledge Engineering, 2020, 30, 363-398.	0.6	3
54	Multi-Start Jaya Algorithm for Software Module Clustering Problem. Azerbaijan Journal of High Performance Computing, 2018, 1, 87-112.	0.2	3

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55	Testing the consistency of business data objects using extended static testing of CRUD matrices. Cluster Computing, 2019, 22, 963-976.	3.5	2
56	Towards an Automated Unified Framework to Run Applications for Combinatorial Interaction Testing. , 2019, , .		2
57	Open-source Defect Injection Benchmark Testbed for the Evaluation of Testing. , 2020, , .		2
58	Architectural Review of Load Balancing Single System Image. Journal of Computer Science, 2008, 4, 752-761.	0.5	2
59	An elitist-flower pollination-based strategy for constructing sequence and sequence-less t-way test suite. International Journal of Bio-Inspired Computation, 2018, 12, 115.	0.6	2
60	Alternative Effort-optimal Model-based Strategy for State Machine Testing of IoT Systems. , 2020, , .		2
61	Selected Code-Quality Characteristics and Metrics for Internet of Things Systems. IEEE Access, 2022, 10, 46144-46161.	2.6	2
62	A Descriptive Performance Model of a Load Balancing Single System Image. , 2008, , .		1
63	A new approach to speed up combinatorial search strategies using stack and hash table. , 2016, , .		1
64	Generating Pairwise Combinatorial Interaction Test Suites Using Single Objective Dragonfly Optimisation Algorithm. Journal of Zankoy Sulaimani - Part A, 2017, 19, 69-78.	0.1	1
65	Using Deep Reinforcement Learning for Zero Defect Smart Forging. Advances in Transdisciplinary Engineering, 2022, , .	0.1	1
66	Avocado: Open-Source Flexible Constrained Interaction Testing for Practical Application. , 2020, , .		0
67	Code Coverage Aware Test Generation Using Constraint Solver. Lecture Notes in Computer Science, 2021, , 58-66.	1.0	0
68	Assessing Combinatorial Design for Analyzing System Performance of a Computer Network. Journal of Zankoy Sulaimani - Part A, 2014, 16, 83-91.	0.1	0
69	Overview of Test Coverage Criteria for Test Case Generation from Finite State Machines Modelled as Directed Graphs. , 2022, , .		0
70	Prioritized Variable-length Test Cases Generation for Finite State Machines. , 2022, , .		0