

Miroslav Bures

List of Publications by Year in descending order

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Version: 2024-02-01

64
papers

739
citations

623574

14
h-index

642610

23
g-index

67
all docs

67
docs citations

67
times ranked

383
citing authors

#	ARTICLE	IF	CITATIONS
1	A hybrid Q-learning sine-cosine-based strategy for addressing the combinatorial test suite minimization problem. PLoS ONE, 2018, 13, e0195675.	1.1	56
2	Machine Learning Based IoT Intrusion Detection System: An MQTT Case Study (MQTT-IoT-IDS2020) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.5	93
3	A Review of Cyber-Ranges and Test-Beds: Current and Future Trends. Sensors, 2020, 20, 7148.	2.1	49
4	Constrained Interaction Testing: A Systematic Literature Study. IEEE Access, 2017, 5, 25706-25730.	2.6	41
5	Aspects of Quality in Internet of Things (IoT) Solutions: A Systematic Mapping Study. IEEE Access, 2019, 7, 13758-13780.	2.6	41
6	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
7	Cyber Security in the Maritime Industry: A Systematic Survey of Recent Advances and Future Trends. Information (Switzerland), 2022, 13, 22.	1.7	32
8	Robust interconnection and damping assignment energy-based control for a permanent magnet synchronous motor using high order sliding mode approach and nonlinear observer. Energy Reports, 2022, 8, 1731-1740.	2.5	29
9	Exploratory testing supported by automated reengineering of model of the system under test. Cluster Computing, 2017, 20, 855-865.	3.5	26
10	Model-Based Testing and Exploratory Testing: Is Synergy Possible?. , 2016, , .		24
11	On Microservice Analysis and Architecture Evolution: A Systematic Mapping Study. Applied Sciences (Switzerland), 2021, 11, 7856.	1.3	21
12	On Vulnerability and Security Log analysis. , 2020, , .		19
13	Cyber-Security Challenges in Aviation Industry: A Review of Current and Future Trends. Information (Switzerland), 2022, 13, 146.	1.7	19
14	On Code Analysis Opportunities and Challenges for Enterprise Systems and Microservices. IEEE Access, 2020, 8, 159449-159470.	2.6	17
15	Software Module Clustering: An In-Depth Literature Analysis. IEEE Transactions on Software Engineering, 2022, 48, 1905-1928.	4.3	17
16	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
17	Internet of Things: Current Challenges in the Quality Assurance and Testing Methods. Lecture Notes in Electrical Engineering, 2019, , 625-634.	0.3	14
18	Interoperability and Integration Testing Methods for IoT Systems: A Systematic Mapping Study. Lecture Notes in Computer Science, 2020, , 93-112.	1.0	13

#	ARTICLE	IF	CITATIONS
19	Prioritized Process Test: More Efficiency in Testing of Business Processes and Workflows. Lecture Notes in Electrical Engineering, 2017, , 585-593.	0.3	12
20	Failure Prediction by Utilizing Log Analysis. , 2020, , .		12
21	On the Effectiveness of Combinatorial Interaction Testing: A Case Study. , 2017, , .		11
22	Framework for Integration Testing of IoT Solutions. , 2017, , .		10
23	Employment of multiple algorithms for optimal path-based test selection strategy. Information and Software Technology, 2019, 114, 21-36.	3.0	10
24	Testing of Smart TV Applications: Key Ingredients, Challenges and Proposed Solutions. Advances in Intelligent Systems and Computing, 2019, , 241-256.	0.5	10
25	Transformation of IFML schemas to automated tests. , 2015, , .		9
26	Metrics for automated testability of web applications. , 2015, , .		9
27	Framework for assessment of web application automated testability. , 2015, , .		8
28	EvoCreeper: Automated Black-Box Model Generation for Smart TV Applications. IEEE Transactions on Consumer Electronics, 2019, 65, 160-169.	3.0	8
29	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
30	Interconnection and damping assignment passivity-based non-linear observer control for efficiency maximization of permanent magnet synchronous motor. Energy Reports, 2022, 8, 1350-1361.	2.5	8
31	SmartDriver: Extension of Selenium WebDriver to Create More Efficient Automated Tests. , 2016, , .		7
32	Securing Internet of Things Devices Using The Network Context. IEEE Transactions on Industrial Informatics, 2020, 16, 4017-4027.	7.2	7
33	A Comprehensive View on Quality Characteristics of the IoT Solutions. EAI/Springer Innovations in Communication and Computing, 2020, , 59-69.	0.9	7
34	Code-aware combinatorial interaction testing. IET Software, 2019, 13, 600-609.	1.5	6
35	An Automated Testing Framework For Smart TV apps Based on Model Separation. , 2020, , .		6
36	PatIoT: IoT Automated Interoperability and Integration Testing Framework. , 2021, , .		6

#	ARTICLE	IF	CITATIONS
37	Model for Evaluation and Cost Estimations of the Automated Testing Architecture. Advances in Intelligent Systems and Computing, 2015, , 781-787.	0.5	6
38	On Matching Log Analysis to Source Code. , 2020, , .		6
39	Using AICC to create reusable adaptive hypermedia e-learning content. , 2005, , .		4
40	Automated testing in the Czech Republic. , 2014, , .		4
41	Identification of Potential Reusable Subroutines in Recorded Automated Test Scripts. International Journal of Software Engineering and Knowledge Engineering, 2018, 28, 3-36.	0.6	4
42	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
43	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
44	Mapping Study on Constraint Consistency Checking in Distributed Enterprise Systems. , 2020, , .		3
45	Testing the consistency of business data objects using extended static testing of CRUD matrices. Cluster Computing, 2019, 22, 963-976.	3.5	2
46	Towards an Automated Unified Framework to Run Applications for Combinatorial Interaction Testing. , 2019, , .		2
47	Open-source Defect Injection Benchmark Testbed for the Evaluation of Testing. , 2020, , .		2
48	Utilising Flow Aggregation to Classify Benign Imitating Attacks. Sensors, 2021, 21, 1761.	2.1	2
49	Dynamic Data Consistency Tests Using a CRUD Matrix as an Underlying Model. , 2020, , .		2
50	Alternative Effort-optimal Model-based Strategy for State Machine Testing of IoT Systems. , 2020, , .		2
51	Selected Code-Quality Characteristics and Metrics for Internet of Things Systems. IEEE Access, 2022, 10, 46144-46161.	2.6	2
52	Reducing user input validation code in web applications using Pex extension. , 2014, , .		1
53	Change Detection System for the Maintenance of Automated Testing. Lecture Notes in Computer Science, 2014, , 192-197.	1.0	1
54	A Sensor Network Utilizing Consumer Wearables for Telerehabilitation of Post-Acute COVID-19 Patients. IEEE Internet of Things Journal, 2022, 9, 23795-23809.	5.5	1

#	ARTICLE	IF	CITATIONS
55	Factors Impacting Resilience of Internet of Things Systems in Critical Infrastructure. , 2022, , .		1
56	Towards the Reusable User Data in Adaptive Hypermedia Systems - The External Mapping of User Parameters between Systems. , 2007, , .		0
57	Avocado: Open-Source Flexible Constrained Interaction Testing for Practical Application. , 2020, , .		0
58	Code Coverage Aware Test Generation Using Constraint Solver. Lecture Notes in Computer Science, 2021, , 58-66.	1.0	0
59	Pex Extension for Generating User Input Validation Code for Web Applications. , 2014, , .		0
60	Static Testing Using Different Types of CRUD Matrices. Lecture Notes in Electrical Engineering, 2017, , 594-602.	0.3	0
61	Conceptual approach for reuse of test automation artifacts on various architectural levels. Computer Science and Information Systems, 2018, 15, 449-472.	0.7	0
62	An Innovative E-Learning Support for Modern History Distance Learning and the Experience during the COVID-19 Lockdown. Sustainability, 2022, 14, 3631.	1.6	0
63	Overview of Test Coverage Criteria for Test Case Generation from Finite State Machines Modelled as Directed Graphs. , 2022, , .		0
64	Prioritized Variable-length Test Cases Generation for Finite State Machines. , 2022, , .		0