# Miroslav Bures

List of Publications by Year
in descending order

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|---|---|---|---|
| 64 papers | 739 citations | 623574 <br> 14 h-index | 642610 <br> 23 g-index |
| 67 all docs | 67 docs citations | 67 times ranked | 383 citing authors |

| # | Article | IF | Citations |
|---|---------|----|-----------|
| 1 | Software Module Clustering: An In-Depth Literature Analysis. IEEE Transactions on Software Engineering, 2022, 48, 1905-1928. | 4.3 | 17 |
| 2 | Cyber Security in the Maritime Industry: A Systematic Survey of Recent Advances and Future Trends. Information (Switzerland), 2022, 13, 22. | 1.7 | 32 |
| 3 | 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 |
| 4 | 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 |
| 5 | Cyber-Security Challenges in Aviation Industry: A Review of Current and Future Trends. Information (Switzerland), 2022, 13, 146. | 1.7 | 19 |
| 6 | 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 |
| 7 | Selected Code-Quality Characteristics and Metrics for Internet of Things Systems. IEEE Access, 2022, 10, 46144-46161. | 2.6 | 2 |
| 8 | Overview of Test Coverage Criteria for Test Case Generation from Finite State Machines Modelled as Directed Graphs. , 2022, , . | | 0 |
| 9 | Prioritized Variable-length Test Cases Generation for Finite State Machines. , 2022, , . | | 0 |
| 10 | 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 |
| 11 | Factors Impacting Resilience of Internet of Things Systems in Critical Infrastructure. , 2022, , . | | 1 |
| 12 | 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 |
| 13 | 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 |
| 14 | 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 | 53 |
| 15 | Utilising Flow Aggregation to Classify Benign Imitating Attacks. Sensors, 2021, 21, 1761. | 2.1 | 2 |
| 16 | PatrIoT: IoT Automated Interoperability and Integration Testing Framework. , 2021, , . | | 6 |
| 17 | On Microservice Analysis and Architecture Evolution: A Systematic Mapping Study. Applied Sciences (Switzerland), 2021, 11, 7856. | 1.3 | 21 |
| 18 | Code Coverage Aware Test Generation Using Constraint Solver. Lecture Notes in Computer Science, 2021, , 58-66. | 1.0 | 0 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 19 | Securing Internet of Things Devices Using The Network Context. IEEE Transactions on Industrial Informatics, 2020, 16, 4017-4027. | 7.2 | 7 |
| 20 | Avocado: Open-Source Flexible Constrained Interaction Testing for Practical Application. , 2020, , . | | 0 |
| 21 | An Automated Testing Framework For Smart TV apps Based on Model Separation. , 2020, , . | | 6 |
| 22 | On Code Analysis Opportunities and Challenges for Enterprise Systems and Microservices. IEEE Access, 2020, 8, 159449-159470. | 2.6 | 17 |
| 23 | Open-source Defect Injection Benchmark Testbed for the Evaluation of Testing. , 2020, , . | | 2 |
| 24 | A Review of Cyber-Ranges and Test-Beds: Current and Future Trends. Sensors, 2020, 20, 7148. | 2.1 | 49 |
| 25 | 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 |
| 26 | A Comprehensive View on Quality Characteristics of the IoT Solutions. EAI/Springer Innovations in Communication and Computing, 2020, , 59-69. | 0.9 | 7 |
| 27 | Interoperability and Integration Testing Methods for IoT Systems: A Systematic Mapping Study. Lecture Notes in Computer Science, 2020, , 93-112. | 1.0 | 13 |
| 28 | On Vulnerability and Security Log analysis. , 2020, , . | | 19 |
| 29 | Dynamic Data Consistency Tests Using a CRUD Matrix as an Underlying Model. , 2020, , . | | 2 |
| 30 | Mapping Study on Constraint Consistency Checking in Distributed Enterprise Systems. , 2020, , . | | 3 |
| 31 | On Matching Log Analysis to Source Code. , 2020, , . | | 6 |
| 32 | Failure Prediction by Utilizing Log Analysis. , 2020, , . | | 12 |
| 33 | Alternative Effort-optimal Model-based Strategy for State Machine Testing of IoT Systems. , 2020, , . | | 2 |
| 34 | Testing the consistency of business data objects using extended static testing of CRUD matrices. Cluster Computing, 2019, 22, 963-976. | 3.5 | 2 |
| 35 | Employment of multiple algorithms for optimal path-based test selection strategy. Information and Software Technology, 2019, 114, 21-36. | 3.0 | 10 |
| 36 | Towards an Automated Unified Framework to Run Applications for Combinatorial Interaction Testing. , 2019, , . | | 2 |

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| 37 | 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 |
| 38 | EvoCreeper: Automated Black-Box Model Generation for Smart TV Applications. IEEE Transactions on Consumer Electronics, 2019, 65, 160-169. | 3.0 | 8 |
| 39 | Code‑aware combinatorial interaction testing. IET Software, 2019, 13, 600-609. | 1.5 | 6 |
| 40 | Testing of Smart TV Applications: Key Ingredients, Challenges and Proposed Solutions. Advances in Intelligent Systems and Computing, 2019, , 241-256. | 0.5 | 10 |
| 41 | Aspects of Quality in Internet of Things (IoT) Solutions: A Systematic Mapping Study. IEEE Access, 2019, 7, 13758-13780. | 2.6 | 41 |
| 42 | Internet of Things: Current Challenges in the Quality Assurance and Testing Methods. Lecture Notes in Electrical Engineering, 2019, , 625-634. | 0.3 | 14 |
| 43 | 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 |
| 44 | 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 |
| 45 | A hybrid Q-learning sine-cosine-based strategy for addressing the combinatorial test suite minimization problem. PLoS ONE, 2018, 13, e0195675. | 1.1 | 56 |
| 46 | Conceptual approach for reuse of test automation artifacts on various architectural levels. Computer Science and Information Systems, 2018, 15, 449-472. | 0.7 | 0 |
| 47 | Exploratory testing supported by automated reengineering of model of the system under test. Cluster Computing, 2017, 20, 855-865. | 3.5 | 26 |
| 48 | Constrained Interaction Testing: A Systematic Literature Study. IEEE Access, 2017, 5, 25706-25730. | 2.6 | 41 |
| 49 | On the Effectiveness of Combinatorial Interaction Testing: A Case Study. , 2017, , . | | 11 |
| 50 | Framework for Integration Testing of IoT Solutions. , 2017, , . | | 10 |
| 51 | Prioritized Process Test: More Efficiency in Testing of Business Processes and Workflows. Lecture Notes in Electrical Engineering, 2017, , 585-593. | 0.3 | 12 |
| 52 | Static Testing Using Different Types of CRUD Matrices. Lecture Notes in Electrical Engineering, 2017, , 594-602. | 0.3 | 0 |
| 53 | Model-Based Testing and Exploratory Testing: Is Synergy Possible?. , 2016, , . | | 24 |
| 54 | SmartDriver: Extension of Selenium WebDriver to Create More Efficient Automated Tests. , 2016, , . | | 7 |

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| 55 | Transformation of IFML schemas to automated tests. , 2015, , . | | 9 |
| 56 | Framework for assessment of web application automated testability. , 2015, , . | | 8 |
| 57 | Metrics for automated testability of web applications. , 2015, , . | | 9 |
| 58 | Model for Evaluation and Cost Estimations of the Automated Testing Architecture. Advances in Intelligent Systems and Computing, 2015, , 781-787. | 0.5 | 6 |
| 59 | Automated testing in the Czech Republic. , 2014, , . | | 4 |
| 60 | Reducing user input validation code in web applications using Pex extension. , 2014, , . | | 1 |
| 61 | Pex Extension for Generating User Input Validation Code for Web Applications. , 2014, , . | | 0 |
| 62 | Change Detection System for the Maintenance of Automated Testing. Lecture Notes in Computer Science, 2014, , 192-197. | 1.0 | 1 |
| 63 | Towards the Reusable User Data in Adaptive Hypermedia Systems - The External Mapping of User Parameters between Systems. , 2007, , . | | 0 |
| 64 | Using AICC to create reusable adaptive hypermedia e-learning content. , 2005, , . | | 4 |