

Maurizio Leotta

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

70
papers

594
citations

14
h-index

21
g-index

79
ext. papers

758
ext. citations

1.3
avg, IF

4.24
L-index

| # | Paper | IF | Citations |
|----|--|-----|-----------|
| 70 | 2013, | | 49 |
| 69 | Approaches and Tools for Automated End-to-End Web Testing. <i>Advances in Computers</i> , 2016 , 193-237 | 2.9 | 36 |
| 68 | Robula+: an algorithm for generating robust XPath locators for web testing. <i>Journal of Software: Evolution and Process</i> , 2016 , 28, 177-204 | 1 | 35 |
| 67 | Improving Test Suites Maintainability with the Page Object Pattern: An Industrial Case Study 2013, | | 33 |
| 66 | Using Multi-Locators to Increase the Robustness of Web Test Cases 2015, | | 32 |
| 65 | Visual vs. DOM-Based Web Locators: An Empirical Study. <i>Lecture Notes in Computer Science</i> , 2014 , 322-340 | 3.0 | 30 |
| 64 | APOGEN: automatic page object generator for web testing. <i>Software Quality Journal</i> , 2017 , 25, 1007-1039 | 3.2 | 26 |
| 63 | Reducing Web Test Cases Aging by Means of Robust XPath Locators 2014, | | 21 |
| 62 | Comparing the maintainability of selenium WebDriver test suites employing different locators: a case study 2013, | | 21 |
| 61 | Pesto: Automated migration of DOM-based Web tests towards the visual approach. <i>Software Testing Verification and Reliability</i> , 2018 , 28, e1665 | 0.9 | 20 |
| 60 | Do UML object diagrams affect design comprehensibility? Results from a family of four controlled experiments. <i>Journal of Visual Languages and Computing</i> , 2017 , 41, 10-21 | | 17 |
| 59 | Who Knows/Uses What of the UML: A Personal Opinion Survey. <i>Lecture Notes in Computer Science</i> , 2014 , 149-165 | 0.9 | 17 |
| 58 | Why Creating Web Page Objects Manually If It Can Be Done Automatically? 2015, | | 14 |
| 57 | On the impact of state-based model-driven development on maintainability: a family of experiments using UniMod. <i>Empirical Software Engineering</i> , 2018 , 23, 1743-1790 | 3.3 | 14 |
| 56 | An acceptance testing approach for Internet of Things systems. <i>IET Software</i> , 2018 , 12, 430-436 | 1 | 12 |
| 55 | Brecise is better than lightb document analysis study about quality of business process models 2011, | | 12 |
| 54 | Business process modelling 2012, | | 12 |

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| 53 | Automated generation of visual web tests from DOM-based web tests 2015 , | | 11 |
| 52 | Clustering-Aided Page Object Generation for Web Testing. <i>Lecture Notes in Computer Science</i> , 2016 , 132-151 | | 11 |
| 51 | PESTO: A Tool for Migrating DOM-Based to Visual Web Tests 2014 , | | 10 |
| 50 | What 5 million job advertisements tell us about testing 2020 , | | 10 |
| 49 | What Are the Used UML Diagram Constructs? A Document and Tool Analysis Study Covering Activity and Use Case Diagrams. <i>Communications in Computer and Information Science</i> , 2015 , 66-83 | 0.3 | 8 |
| 48 | Towards a lightweight model driven method for developing SOA systems using existing assets 2012 , | | 8 |
| 47 | Towards Runtime Monitoring of Node.js and Its Application to the Internet of Things. <i>Electronic Proceedings in Theoretical Computer Science, EPTCS</i> , 264, 27-42 | | 7 |
| 46 | Towards a Runtime Verification Approach for Internet of Things Systems. <i>Lecture Notes in Computer Science</i> , 2018 , 83-96 | 0.9 | 7 |
| 45 | A Method for Requirements Capture and Specification Based on Disciplined Use Cases and Screen Mockups. <i>Lecture Notes in Computer Science</i> , 2015 , 105-113 | 0.9 | 6 |
| 44 | Improving the Quality and the Comprehension of Requirements: Disciplined Use Cases and Mockups 2014 , | | 6 |
| 43 | A Family of Experiments to Assess the Impact of Page Object Pattern in Web Test Suite Development 2020 , | | 6 |
| 42 | What are IoT systems for real? An experts' survey on software engineering aspects. <i>Internet of Things (Netherlands)</i> , 2020 , 12, 100313 | 6.9 | 5 |
| 41 | Two experiments for evaluating the impact of Hamcrest and AssertJ on assertion development. <i>Software Quality Journal</i> , 2020 , 28, 1113-1145 | 1.2 | 5 |
| 40 | Using UniMod for maintenance tasks: An experimental assessment in the context of model driven development 2012 , | | 5 |
| 39 | A Pilot Experiment to Quantify the Effect of Documentation Accuracy on Maintenance Tasks 2013 , | | 5 |
| 38 | Web testware evolution 2013 , | | 5 |
| 37 | Early experiences on model transformation testing 2012 , | | 5 |
| 36 | An exploratory survey on SOA knowledge, adoption and trend in the Italian industry 2012 , | | 5 |

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| 35 | Service-oriented domain and business process modelling 2017 , | | 5 |
| 34 | Towards an approach for developing and testing Node-RED IoT systems 2018 , | | 5 |
| 33 | Repairing Selenium Test Cases: An Industrial Case Study about Web Page Element Localization 2013 , | | 4 |
| 32 | Meta-heuristic Generation of Robust XPath Locators for Web Testing 2015 , | | 4 |
| 31 | Towards an Acceptance Testing Approach for Internet of Things Systems. <i>Lecture Notes in Computer Science</i> , 2018 , 125-138 | 0.9 | 4 |
| 30 | Three Open Problems in the Context of E2E Web Testing and a Vision: NEONATE. <i>Advances in Computers</i> , 2019 , 113, 89-133 | 2.9 | 3 |
| 29 | Comparing the Maintainability of Two Alternative Architectures of a Postal System: SOA vs. Non-SOA 2011 , | | 3 |
| 28 | 2020 , | | 3 |
| 27 | Comparing Testing and Runtime Verification of IoT Systems: A Preliminary Evaluation based on a Case Study 2019 , | | 3 |
| 26 | Sidereal: Statistical adaptive generation of robust locators for web testing. <i>Software Testing Verification and Reliability</i> , 2021 , 31, e1767 | 0.9 | 3 |
| 25 | A large experimentation to analyze the effects of implementation bugs in machine learning algorithms. <i>Future Generation Computer Systems</i> , 2022 , 133, 184-200 | 7.5 | 3 |
| 24 | A Lightweight Semi-automated Acceptance Test-Driven Development Approach for Web Applications. <i>Lecture Notes in Computer Science</i> , 2016 , 593-597 | 0.9 | 2 |
| 23 | SOA adoption in the Italian industry 2012 , | | 2 |
| 22 | A Set of Empirically Validated Development Guidelines for Improving Node-RED Flows Comprehension 2020 , | | 2 |
| 21 | Test Driven Development of Web Applications: A Lightweight Approach 2016 , | | 2 |
| 20 | Fluent vs Basic Assertions in Java: An Empirical Study 2018 , | | 2 |
| 19 | DUSM: A Method for Requirements Specification and Refinement Based on Disciplined Use Cases and Screen Mockups. <i>Journal of Computer Science and Technology</i> , 2018 , 33, 918-939 | 1.7 | 2 |
| 18 | Reducing Flakiness in End-to-End Test Suites: An Experience Report. <i>Communications in Computer and Information Science</i> , 2021 , 3-17 | 0.3 | 2 |

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| 17 | How do implementation bugs affect the results of machine learning algorithms? 2019 , | | 1 |
| 16 | Orchestrated crowdsourced testing of a mobile web application 2019 , | | 1 |
| 15 | Towards the Generation of End-to-End Web Test Scripts from Requirements Specifications 2017 , | | 1 |
| 14 | Fight silent horror unit test methods by consulting a TestWizard. <i>Journal of Software: Evolution and Process</i> , e2396 | 1 | 1 |
| 13 | Hamcrest vs AssertJ: An Empirical Assessment of Tester Productivity. <i>Communications in Computer and Information Science</i> , 2019 , 161-176 | 0.3 | 1 |
| 12 | An Approach and a Prototype Tool for Generating Executable IoT System Test Cases. <i>Communications in Computer and Information Science</i> , 2020 , 383-398 | 0.3 | 1 |
| 11 | Automatic Page Object Generation with APOGEN. <i>Lecture Notes in Computer Science</i> , 2016 , 533-537 | 0.9 | 1 |
| 10 | An Abstract Machine for Asynchronous Programs with Closures and Priority Queues. <i>Lecture Notes in Computer Science</i> , 2017 , 59-74 | 0.9 | 1 |
| 9 | STILE: a Tool for Parallel Execution of E2E Web Test Scripts 2021 , | | 1 |
| 8 | A Method-Wise Approach for Selecting the Most Suitable Business Process Modelling Notation 2019 , | | 1 |
| 7 | Daily Living Activity Recognition Using Wearable Devices: A Features-Rich Dataset and a Novel Approach. <i>Lecture Notes in Computer Science</i> , 2021 , 171-187 | 0.9 | 1 |
| 6 | MATTER: A tool for generating end-to-end IoT test scripts. <i>Software Quality Journal</i> , 1 | 1.2 | 1 |
| 5 | Ensemble-Based Software Engineering for Modern Computing Platforms. <i>Software Engineering Notes: an Informal Newsletter of the Special Interest Committee on Software Engineering / ACM</i> , 2020 , 45, 28-30 | 0.4 | |
| 4 | Towards a Holistic Method for Business Process Analytics. <i>Lecture Notes in Computer Science</i> , 2017 , 168-183 | | 1 |
| 3 | A Problem Frame-Based Approach to Evolvability: The Case of the Multi-translation. <i>Lecture Notes in Computer Science</i> , 2011 , 157-175 | 0.9 | |
| 2 | A service-oriented method for domain and business process modelling. <i>Journal of Software: Evolution and Process</i> , 2021 , 33, e2307 | | 1 |
| 1 | Improving Node-RED Flows Comprehension with a Set of Development Guidelines. <i>Communications in Computer and Information Science</i> , 2021 , 232-260 | 0.3 | |