

Ivano Malavolta

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.

75
papers

1,116
citations

19
h-index

31
g-index

89
ext. papers

1,589
ext. citations

2.2
avg. IF

4.99
L-index

| # | Paper | IF | Citations |
|----|--|-----|-----------|
| 75 | . <i>IEEE Transactions on Software Engineering</i> , 2013 , 39, 869-891 | 3.5 | 145 |
| 74 | Research on Architecting Microservices: Trends, Focus, and Potential for Industrial Adoption 2017 , | | 110 |
| 73 | State of the art of cyber-physical systems security: An automatic control perspective. <i>Journal of Systems and Software</i> , 2019 , 149, 174-216 | 3.3 | 66 |
| 72 | Architecting with microservices: A systematic mapping study. <i>Journal of Systems and Software</i> , 2019 , 150, 77-97 | 3.3 | 60 |
| 71 | Providing Architectural Languages and Tools Interoperability through Model Transformation Technologies. <i>IEEE Transactions on Software Engineering</i> , 2010 , 36, 119-140 | 3.5 | 47 |
| 70 | . <i>IEEE Software</i> , 2017 , 34, 46-53 | 1.5 | 46 |
| 69 | Towards Recovering the Software Architecture of Microservice-Based Systems 2017 , | | 36 |
| 68 | On the Impact Significance of Metamodel Evolution in MDE.. <i>Journal of Object Technology</i> , 2012 , 11, 3:1 | 1.4 | 31 |
| 67 | Execution of UML models: a systematic review of research and practice. <i>Software and Systems Modeling</i> , 2019 , 18, 2313-2360 | 1.9 | 29 |
| 66 | End Users' Perception of Hybrid Mobile Apps in the Google Play Store 2015 , | | 28 |
| 65 | A model-driven engineering framework for architecting and analysing Wireless Sensor Networks 2012 , | | 24 |
| 64 | Hybrid Mobile Apps in the Google Play Store: An Exploratory Investigation 2015 , | | 23 |
| 63 | . <i>IEEE Transactions on Software Engineering</i> , 2018 , 44, 1146-1175 | 3.5 | 23 |
| 62 | MicroART: A Software Architecture Recovery Tool for Maintaining Microservice-Based Systems 2017 , | | 23 |
| 61 | FLYAQ: Enabling Non-expert Users to Specify and Generate Missions of Autonomous Multicopters 2015 , | | 23 |
| 60 | The Road Ahead for Architectural Languages. <i>IEEE Software</i> , 2015 , 32, 98-105 | 1.5 | 21 |
| 59 | A model-driven approach to automate the propagation of changes among Architecture Description Languages. <i>Software and Systems Modeling</i> , 2012 , 11, 29-53 | 1.9 | 21 |

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| 58 | A graph-based dataset of commit history of real-world Android apps 2018 , | | 21 |
| 57 | Developing next generation ADLs through MDE techniques 2010 , | | 20 |
| 56 | . <i>IEEE Access</i> , 2016 , 4, 6451-6466 | 3.5 | 18 |
| 55 | Safety for mobile robotic systems: A systematic mapping study from a software engineering perspective. <i>Journal of Systems and Software</i> , 2019 , 151, 150-179 | 3.3 | 16 |
| 54 | On the Composition and Reuse of Viewpoints across Architecture Frameworks 2012 , | | 15 |
| 53 | Automatic generation of detailed flight plans from high-level mission descriptions 2016 , | | 14 |
| 52 | Towards a collaborative framework for the design and development of data-intensive mobile applications 2014 , | | 13 |
| 51 | A Quantitative and Qualitative Investigation of Performance-Related Commits in Android Apps 2016 , | | 13 |
| 50 | Beyond native apps: web technologies to the rescue! (keynote) 2016 , | | 13 |
| 49 | Self-reported activities of Android developers 2018 , | | 13 |
| 48 | A Preliminary Study on Architecting Cyber-Physical Systems 2015 , | | 11 |
| 47 | Model-Driven Techniques to Enhance Architectural Languages Interoperability. <i>Lecture Notes in Computer Science</i> , 2012 , 26-42 | 0.9 | 11 |
| 46 | Assessing the Impact of Service Workers on the Energy Efficiency of Progressive Web Apps 2017 , | | 10 |
| 45 | A Study on MDE Approaches for Engineering Wireless Sensor Networks 2014 , | | 10 |
| 44 | On the Use of Component-Based Principles and Practices for Architecting Cyber-Physical Systems 2016 , | | 10 |
| 43 | Smart City L'Aquila: An Application of the 'Infrastructure' Approach to Public Urban Mobility in a Post-Disaster Context. <i>Journal of Urban Technology</i> , 2018 , 25, 99-121 | 5.9 | 9 |
| 42 | User-Centric Android Flexible Permissions 2017 , | | 9 |
| 41 | Path Loss Effect on Energy Consumption in a WSN 2012 , | | 9 |

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| 40 | Supporting Architectural Design Decisions Evolution through Model Driven Engineering. <i>Lecture Notes in Computer Science</i> , 2011 , 63-77 | 0.9 | 9 |
| 39 | How Maintainability Issues of Android Apps Evolve 2018 , | | 9 |
| 38 | An extensible data-driven approach for evaluating the quality of microservice architectures 2019 , | | 7 |
| 37 | Engineering the software of robotic systems 2017 , | | 7 |
| 36 | Realizing architecture frameworks through megamodelling techniques 2010 , | | 6 |
| 35 | Leveraging Web Analytics for Automatically Generating Mobile Navigation Models 2016 , | | 6 |
| 34 | Leveraging Collective Run-Time Adaptation for UAV-Based Systems 2016 , | | 6 |
| 33 | Envisioning the Future of Collaborative Model-Driven Software Engineering 2017 , | | 5 |
| 32 | Evaluating the impact of caching on the energy consumption and performance of progressive web apps 2020 , | | 5 |
| 31 | Engineering a Platform for Mission Planning of Autonomous and Resilient Quadrotors. <i>Lecture Notes in Computer Science</i> , 2013 , 33-47 | 0.9 | 5 |
| 30 | Building and evaluating a theory of architectural technical debt in software-intensive systems. <i>Journal of Systems and Software</i> , 2021 , 176, 110925 | 3.3 | 5 |
| 29 | Automatically Bridging UML Profiles to MOF Metamodels 2015 , | | 4 |
| 28 | A Survey on the Specification of the Physical Environment of Wireless Sensor Networks 2014 , | | 4 |
| 27 | A Model-Driven Engineering Framework for Component Models Interoperability. <i>Lecture Notes in Computer Science</i> , 2009 , 36-53 | 0.9 | 4 |
| 26 | How do you architect your robots? 2020 , | | 4 |
| 25 | Managing safety and mission completion via collective run-time adaptation. <i>Journal of Systems Architecture</i> , 2019 , 95, 19-35 | 5.5 | 3 |
| 24 | A4WSN: an architecture-driven modelling platform for analysing and developing WSNs. <i>Software and Systems Modeling</i> , 2019 , 18, 2633-2653 | 1.9 | 3 |
| 23 | DUALLY: A framework for Architectural Languages and Tools Interoperability 2008 , | | 3 |

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| 22 | The Role of Parts in the System Behaviour. <i>Lecture Notes in Computer Science</i> , 2014 , 24-39 | 0.9 | 3 |
| 21 | . <i>IEEE Software</i> , 2021 , 38, 88-96 | 1.5 | 3 |
| 20 | Architecture Description Leveraging Model Driven Engineering and Semantic Wikis 2014 , | | 2 |
| 19 | Sustainable Safety in Mobile Multi-robot Systems via Collective Adaptation 2015 , | | 2 |
| 18 | Leave my apps alone! 2020 , | | 2 |
| 17 | Enhancing Architecture Design Decisions Evolution with Group Decision Making Principles. <i>Lecture Notes in Computer Science</i> , 2014 , 9-23 | 0.9 | 2 |
| 16 | Mining Energy-Related Practices in Robotics Software 2021 , | | 2 |
| 15 | Model-driven engineering for mobile robotic systems: a systematic mapping study. <i>Software and Systems Modeling</i> ,1 | 1.9 | 2 |
| 14 | Characterizing the evolution of statically-detectable performance issues of Android apps. <i>Empirical Software Engineering</i> , 2020 , 25, 2748-2808 | 3.3 | 1 |
| 13 | Modelling and predicting User Engagement in mobile applications. <i>Data Science</i> , 2020 , 3, 61-77 | 2.2 | 1 |
| 12 | Web-based hybrid mobile apps 2016 , | | 1 |
| 11 | Enhancing Trustability of Android Applications via User-Centric Flexible Permissions. <i>IEEE Transactions on Software Engineering</i> , 2019 , 1-1 | 3.5 | 1 |
| 10 | Current Research Topics and Trends in the Software Architecture Community: ICSA 2017 Workshops Summary 2017 , | | 1 |
| 9 | Perspectives on static analysis of mobile apps (invited talk) 2015 , | | 1 |
| 8 | Engineering mobile apps for disaster management [the case of COVID-19 apps in the Google Play Store. <i>IEEE Software</i> , 2021 , 0-0 | 1.5 | 1 |
| 7 | An evaluation of the effectiveness of personalization and self-adaptation for e-Health apps. <i>Information and Software Technology</i> , 2022 , 146, 106841 | 3.4 | 1 |
| 6 | ByADL: An MDE Framework for Building Extensible Architecture Description Languages. <i>Lecture Notes in Computer Science</i> , 2010 , 527-531 | 0.9 | 1 |
| 5 | Mining the ROS ecosystem for Green Architectural Tactics in Robotics and an Empirical Evaluation 2021 , | | 1 |

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| 4 | Mining guidelines for architecting robotics software. <i>Journal of Systems and Software</i> , 2021 , 178, 110969 | 3.3 | 1 |
| 3 | Empirical evaluation of an architectural technical debt index in the context of the Apache and ONAP ecosystems.. <i>PeerJ Computer Science</i> , 2022 , 8, e833 | 2.7 | 0 |
| 2 | Architectural Tactics for Energy-Aware Robotics Software: A Preliminary Study. <i>Lecture Notes in Computer Science</i> , 2021 , 164-171 | 0.9 | 0 |
| 1 | The state of the art in measurement-based experiments on the mobile web. <i>Information and Software Technology</i> , 2022 , 149, 106944 | 3.4 | |