Ivano Malavolta

List of Publications by Year in Descending Order

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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	Empirical evaluation of an architectural technical debt index in the context of the Apache and ONAP ecosystems.. *PeerJ Computer Science*, **2022**, 8, e833	2.7	0
74	An evaluation of the effectiveness of personalization and self-adaptation for e-Health apps. *Information and Software Technology*, **2022**, 146, 106841	3.4	1
73	The state of the art in measurement-based experiments on the mobile web. *Information and Software Technology*, **2022**, 149, 106944	3.4	
72	Engineering mobile apps for disaster management the case of COVID-19 apps in the Google Play Store. *IEEE Software*, **2021**, 0-0	1.5	1
71	Mining the ROS ecosystem for Green Architectural Tactics in Robotics and an Empirical Evaluation **2021**,		1
70	Mining Energy-Related Practices in Robotics Software **2021**,		2
69	Building and evaluating a theory of architectural technical debt in software-intensive systems. *Journal of Systems and Software*, **2021**, 176, 110925	3.3	5
68	. *IEEE Software*, **2021**, 38, 88-96	1.5	3
67	Architectural Tactics for Energy-Aware Robotics Software: A Preliminary Study. *Lecture Notes in Computer Science*, **2021**, 164-171	0.9	0
66	Mining guidelines for architecting robotics software. *Journal of Systems and Software*, **2021**, 178, 110969	3.3	1
65	Characterizing the evolution of statically-detectable performance issues of Android apps. *Empirical Software Engineering*, **2020**, 25, 2748-2808	3.3	1
64	Modelling and predicting User Engagement in mobile applications. *Data Science*, **2020**, 3, 61-77	2.2	1
63	How do you architect your robots? **2020**,		4
62	Evaluating the impact of caching on the energy consumption and performance of progressive web apps **2020**,		5
61	Leave my apps alone! **2020**,		2
60	Architecting with microservices: A systematic mapping study. *Journal of Systems and Software*, **2019**, 150, 77-97	3.3	60
59	An extensible data-driven approach for evaluating the quality of microservice architectures **2019**,		7

58	Managing safety and mission completion via collective run-time adaptation. *Journal of Systems Architecture*, **2019**, 95, 19-35	5.5	3
57	Safety for mobile robotic systems: A systematic mapping study from a software engineering perspective. *Journal of Systems and Software*, **2019**, 151, 150-179	3.3	16
56	A4WSN: an architecture-driven modelling platform for analysing and developing WSNs. *Software and Systems Modeling*, **2019**, 18, 2633-2653	1.9	3
55	Enhancing Trustability of Android Applications via User-Centric Flexible Permissions. *IEEE Transactions on Software Engineering*, **2019**, 1-1	3.5	1
54	State of the art of cyber-physical systems security: An automatic control perspective. *Journal of Systems and Software*, **2019**, 149, 174-216	3.3	66
53	Execution of UML models: a systematic review of research and practice. *Software and Systems Modeling*, **2019**, 18, 2313-2360	1.9	29
52	Smart City L□Aquila: An Application of the □nfostructure□Approach to Public Urban Mobility in a Post-Disaster Context. *Journal of Urban Technology*, **2018**, 25, 99-121	5.9	9
51	. *IEEE Transactions on Software Engineering*, **2018**, 44, 1146-1175	3.5	23
50	How Maintainability Issues of Android Apps Evolve **2018**,		9
49	Self-reported activities of Android developers **2018**,		13
48	A graph-based dataset of commit history of real-world Android apps **2018**,		21
47	. *IEEE Software*, **2017**, 34, 46-53	1.5	46
46	Research on Architecting Microservices: Trends, Focus, and Potential for Industrial Adoption **2017**,		110
45	Assessing the Impact of Service Workers on the Energy Efficiency of Progressive Web Apps **2017**,		10
44	Envisioning the Future of Collaborative Model-Driven Software Engineering **2017**,		5
43	MicroART: A Software Architecture Recovery Tool for Maintaining Microservice-Based Systems **2017**,		23
42	Engineering the software of robotic systems **2017**,		7
41	User-Centric Android Flexible Permissions **2017**,		9

40	Towards Recovering the Software Architecture of Microservice-Based Systems **2017**,		36
39	Current Research Topics and Trends in the Software Architecture Community: ICSA 2017 Workshops Summary **2017**,		1
38	Automatic generation of detailed flight plans from high-level mission descriptions **2016**,		14
37	Web-based hybrid mobile apps **2016**,		1
36	. *IEEE Access*, **2016**, 4, 6451-6466	3.5	18
35	A Quantitative and Qualitative Investigation of Performance-Related Commits in Android Apps **2016**,		13
34	Beyond native apps: web technologies to the rescue! (keynote) **2016**,		13
33	Leveraging Web Analytics for Automatically Generating Mobile Navigation Models **2016**,		6
32	Leveraging Collective Run-Time Adaptation for UAV-Based Systems **2016**,		6
31	On the Use of Component-Based Principles and Practices for Architecting Cyber-Physical Systems **2016**,		10
30	The Road Ahead for Architectural Languages. *IEEE Software*, **2015**, 32, 98-105	1.5	21
29	End Users' Perception of Hybrid Mobile Apps in the Google Play Store **2015**,		28
28	Hybrid Mobile Apps in the Google Play Store: An Exploratory Investigation **2015**,		23
27	A Preliminary Study on Architecting Cyber-Physical Systems **2015**,		11
26	Perspectives on static analysis of mobile apps (invited talk) **2015**,		1
25	Automatically Bridging UML Profiles to MOF Metamodels **2015**,		4
24	FLYAQ: Enabling Non-expert Users to Specify and Generate Missions of Autonomous Multicopters **2015**,		23
23	Sustainable Safety in Mobile Multi-robot Systems via Collective Adaptation **2015**,		2

22	Architecture Description Leveraging Model Driven Engineering and Semantic Wikis **2014**,		2
21	A Survey on the Specification of the Physical Environment of Wireless Sensor Networks **2014**,		4
20	Towards a collaborative framework for the design and development of data-intensive mobile applications **2014**,		13
19	A Study on MDE Approaches for Engineering Wireless Sensor Networks **2014**,		10
18	The Role of Parts in the System Behaviour. *Lecture Notes in Computer Science*, **2014**, 24-39	0.9	3
17	Enhancing Architecture Design Decisions Evolution with Group Decision Making Principles. *Lecture Notes in Computer Science*, **2014**, 9-23	0.9	2
16	. *IEEE Transactions on Software Engineering*, **2013**, 39, 869-891	3.5	145
15	Engineering a Platform for Mission Planning of Autonomous and Resilient Quadrotors. *Lecture Notes in Computer Science*, **2013**, 33-47	0.9	5
14	A model-driven approach to automate the propagation of changes among Architecture Description Languages. *Software and Systems Modeling*, **2012**, 11, 29-53	1.9	21
13	On the Composition and Reuse of Viewpoints across Architecture Frameworks **2012**,		15
12	Path Loss Effect on Energy Consumption in a WSN **2012**,		9
11	A model-driven engineering framework for architecting and analysing Wireless Sensor Networks **2012**,		24
10	Model-Driven Techniques to Enhance Architectural Languages Interoperability. *Lecture Notes in Computer Science*, **2012**, 26-42	0.9	11
9	On the Impact Significance of Metamodel Evolution in MDE.. *Journal of Object Technology*, **2012**, 11, 3:1	1.4	31
8	Supporting Architectural Design Decisions Evolution through Model Driven Engineering. *Lecture Notes in Computer Science*, **2011**, 63-77	0.9	9
7	Realizing architecture frameworks through megamodelling techniques **2010**,		6
6	Developing next generation ADLs through MDE techniques **2010**,		20
5	Providing Architectural Languages and Tools Interoperability through Model Transformation Technologies. *IEEE Transactions on Software Engineering*, **2010**, 36, 119-140	3.5	47

4	ByADL: An MDE Framework for Building Extensible Architecture Description Languages. *Lecture Notes in Computer Science*, **2010**, 527-531	0.9	1
3	A Model-Driven Engineering Framework for Component Models Interoperability. *Lecture Notes in Computer Science*, **2009**, 36-53	0.9	4
2	DUALLY: A framework for Architectural Languages and Tools Interoperability **2008**,		3
1	Model-driven engineering for mobile robotic systems: a systematic mapping study. *Software and Systems Modeling*,1	1.9	2