

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.

120 papers	2,169 citations	27 h-index	41 g-index
125 ext. papers	2,989 ext. citations	2.2 avg, IF	5.89 L-index

#	Paper	IF	Citations
120	Guidelines for including grey literature and conducting multivocal literature reviews in software engineering. <i>Information and Software Technology</i> , 2019 , 106, 101-121	3.4	163
119	Hybrid software and system development in practice: waterfall, scrum, and beyond 2017 ,		112
118	Challenges and best practices in industry-academia collaborations in software engineering: A systematic literature review. <i>Information and Software Technology</i> , 2016 , 79, 106-127	3.4	85
117	A survey of software testing practices in Canada. <i>Journal of Systems and Software</i> , 2013 , 86, 1354-1376	3.3	80
116	When and what to automate in software testing? A multi-vocal literature review. <i>Information and Software Technology</i> , 2016 , 76, 92-117	3.4	80
115	Graphical user interface (GUI) testing: Systematic mapping and repository. <i>Information and Software Technology</i> , 2013 , 55, 1679-1694	3.4	77
114	The need for multivocal literature reviews in software engineering 2016 ,		74
113	A systematic literature review of literature reviews in software testing. <i>Information and Software Technology</i> , 2016 , 80, 195-216	3.4	61
112	Citations, research topics and active countries in software engineering: A bibliometrics study. <i>Computer Science Review</i> , 2016 , 19, 56-77	8.3	50
111	A systematic mapping study of web application testing. <i>Information and Software Technology</i> , 2013 , 55, 1374-1396	3.4	50
110	Software test maturity assessment and test process improvement: A multivocal literature review. <i>Information and Software Technology</i> , 2017 , 85, 16-42	3.4	48
109	A survey of software engineering practices in Turkey. <i>Journal of Systems and Software</i> , 2015 , 108, 148-173	3.3	48
108	Smells in software test code: A survey of knowledge in industry and academia. <i>Journal of Systems and Software</i> , 2018 , 138, 52-81	3.3	44
107	Cost, benefits and quality of software development documentation: A systematic mapping. <i>Journal of Systems and Software</i> , 2015 , 99, 175-198	3.3	42
106	Web application testing: A systematic literature review. <i>Journal of Systems and Software</i> , 2014 , 91, 174-201	3.3	38
105	Software test-code engineering: A systematic mapping. <i>Information and Software Technology</i> , 2015 , 58, 123-147	3.4	37
104	A replicated survey of software testing practices in the Canadian province of Alberta: What has changed from 2004 to 2009?. <i>Journal of Systems and Software</i> , 2010 , 83, 2251-2262	3.3	34

103	Control Flow Analysis of UML 2.0 Sequence Diagrams. <i>Lecture Notes in Computer Science</i> , 2005 , 160-174	0.9	34
102	Highly-cited papers in software engineering: The top-100. <i>Information and Software Technology</i> , 2016 , 71, 108-128	3.4	32
101	A bibliometric analysis of the Turkish software engineering research community. <i>Scientometrics</i> , 2015 , 105, 23-49	3	31
100	Traffic-aware stress testing of distributed systems based on UML models 2006 ,		30
99	Hybrid Software Development Approaches in Practice: A European Perspective. <i>IEEE Software</i> , 2019 , 36, 20-31	1.5	30
98	Worlds Apart: Industrial and Academic Focus Areas in Software Testing. <i>IEEE Software</i> , 2017 , 34, 38-45	1.5	29
97	Traffic-aware stress testing of distributed real-time systems based on UML models using genetic algorithms. <i>Journal of Systems and Software</i> , 2008 , 81, 161-185	3.3	29
96	Developing, Verifying, and Maintaining High-Quality Automated Test Scripts. <i>IEEE Software</i> , 2016 , 33, 68-75	1.5	27
95	Closing the Gap Between Software Engineering Education and Industrial Needs. <i>IEEE Software</i> , 2020 , 37, 68-77	1.5	27
94	A survey on modeling and model-driven engineering practices in the embedded software industry. <i>Journal of Systems Architecture</i> , 2018 , 91, 62-82	5.5	27
93	What industry wants from academia in software testing? 2017 ,		22
92	DEVELOPMENT OF SCIENTIFIC SOFTWARE: A SYSTEMATIC MAPPING, A BIBLIOMETRICS STUDY, AND A PAPER REPOSITORY. <i>International Journal of Software Engineering and Knowledge Engineering</i> , 2013 , 23, 463-506	1	21
91	Quantity versus impact of software engineering papers: a quantitative study. <i>Scientometrics</i> , 2017 , 112, 963-1006	3	19
90	Decision support for moving from a single product to a product portfolio in evolving software systems. <i>Journal of Systems and Software</i> , 2010 , 83, 2496-2512	3.3	19
89	Multi-objective regression test selection in practice: An empirical study in the defense software industry. <i>Information and Software Technology</i> , 2018 , 103, 40-54	3.4	19
88	Industry-academia collaborations in software testing: experience and success stories from Canada and Turkey. <i>Software Quality Journal</i> , 2017 , 25, 1091-1143	1.2	18
87	A Genetic Algorithm-Based Stress Test Requirements Generator Tool and Its Empirical Evaluation. <i>IEEE Transactions on Software Engineering</i> , 2010 , 36, 778-797	3.5	18
86	Test Automation: Not Just for Test Execution. <i>IEEE Software</i> , 2017 , 34, 90-96	1.5	17

85	Aligning software engineering education with industrial needs: A meta-analysis. <i>Journal of Systems and Software</i> , 2019 , 156, 65-83	3.3	17
84	Testing embedded software: A survey of the literature. <i>Information and Software Technology</i> , 2018 , 104, 14-45	3.4	17
83	A BIBLIOMETRIC/GEOGRAPHIC ASSESSMENT OF 40 YEARS OF SOFTWARE ENGINEERING RESEARCH (1969-2009). <i>International Journal of Software Engineering and Knowledge Engineering</i> , 2013 , 23, 1343-1366	1	17
82	Choosing the Right Test Automation Tool 2017 ,		15
81	Automated Unit Testing of a SCADA Control Software: An Industrial Case Study Based on Action Research 2012 ,		15
80	An MILP-based formulation for minimizing pumping energy costs of oil pipelines: beneficial to both the environment and pipeline companies. <i>Energy Systems</i> , 2010 , 1, 393-416	1.7	14
79	. <i>IEEE Transactions on Education</i> , 2010 , 53, 182-193	2.1	14
78	Usage and usefulness of technical software documentation: An industrial case study. <i>Information and Software Technology</i> , 2015 , 57, 664-682	3.4	13
77	A customizable pattern-based software process simulation model: design, calibration and application. <i>Software Process Improvement and Practice</i> , 2009 , 14, 165-180		13
76	Traffic-aware Stress Testing of Distributed Real-Time Systems Based on UML Models in the Presence of Time Uncertainty 2008 ,		13
75	Correlation of critical success factors with success of software projects: an empirical investigation. <i>Software Quality Journal</i> , 2019 , 27, 429-493	1.2	13
74	What We Know about Software Test Maturity and Test Process Improvement. <i>IEEE Software</i> , 2018 , 35, 84-92	1.5	12
73	Selecting the Right Topics for Industry-Academia Collaborations in Software Testing: An Experience Report 2016 ,		12
72	Characterizing industry-academia collaborations in software engineering: evidence from 101 projects. <i>Empirical Software Engineering</i> , 2019 , 24, 2540-2602	3.3	12
71	Evaluating usage and quality of technical software documentation 2013 ,		12
70	Empirical analysis of a genetic algorithm-based stress test technique 2008 ,		12
69	Experience-based guidelines for effective and efficient data extraction in systematic reviews in software engineering 2017 ,		11
68	Comparing automated visual GUI testing tools: an industrial case study 2017 ,		11

67	NLP-assisted software testing: A systematic mapping of the literature. <i>Information and Software Technology</i> , 2020 , 126, 106321	3.4	11
66	A Search-Based Approach for Cost-Effective Software Test Automation Decision Support and an Industrial Case Study 2014 ,		11
65	When to automate software testing? decision support based on system dynamics: an industrial case study 2014 ,		11
64	Evidence-Based Insights about Issue Management Processes: An Exploratory Study. <i>Lecture Notes in Computer Science</i> , 2009 , 112-123	0.9	11
63	Analysis and Visualization of Behavioral Dependencies Among Distributed Objects Based on UML Models. <i>Lecture Notes in Computer Science</i> , 2006 , 365-379	0.9	11
62	Practical relevance of software engineering research: synthesizing the community's voice. <i>Empirical Software Engineering</i> , 2020 , 25, 1687-1754	3.3	10
61	Test Redundancy Measurement Based on Coverage Information: Evaluations and Lessons Learned 2009 ,		10
60	A UML-based quantitative framework for early prediction of resource usage and load in distributed real-time systems. <i>Software and Systems Modeling</i> , 2009 , 8, 275-302	1.9	10
59	A survey on software testability. <i>Information and Software Technology</i> , 2019 , 108, 35-64	3.4	10
58	What We Know About Smells in Software Test Code. <i>IEEE Software</i> , 2019 , 36, 61-73	1.5	10
57	An Open-Source Tool for Automated Generation of Black-Box xUnit Test Code and Its Industrial Evaluation. <i>Lecture Notes in Computer Science</i> , 2010 , 118-128	0.9	9
56	What We Know about Testing Embedded Software. <i>IEEE Software</i> , 2018 , 35, 62-69	1.5	8
55	Industry-academia collaborations in software engineering 2017 ,		8
54	Cross-factor analysis of software engineering practices versus practitioner demographics: An exploratory study in Turkey. <i>Journal of Systems and Software</i> , 2016 , 111, 49-73	3.3	7
53	Software-testing education: A systematic literature mapping. <i>Journal of Systems and Software</i> , 2020 , 165, 110570	3.3	7
52	Citation and Topic Analysis of the ESEM Papers 2015 ,		7
51	Visual testing of Graphical User Interfaces: An exploratory study towards systematic definitions and approaches 2012 ,		7
50	SEARCH-BASED TESTING OF MULTI-AGENT MANUFACTURING SYSTEMS FOR DEADLOCKS BASED ON MODELS. <i>International Journal on Artificial Intelligence Tools</i> , 2010 , 19, 417-437	0.9	7

49	Current State of the Software Testing Education in North American Academia and Some Recommendations for the New Educators 2010 ,		7
48	Incorporating real-world industrial testing projects in software testing courses: Opportunities, challenges, and lessons learned 2011 ,		7
47	Monitoring Multi-Agent Systems for deadlock detection based on UML models. <i>Canadian Conference on Electrical and Computer Engineering</i> , 2008 ,		7
46	Mining user reviews of COVID contact-tracing apps: An exploratory analysis of nine European apps. <i>Journal of Systems and Software</i> , 2022 , 184, 111136	3.3	7
45	Benefitting from the Grey Literature in Software Engineering Research 2020 , 385-413		7
44	GENSIM 2.0: A Customizable Process Simulation Model for Software Process Evaluation 2008 , 294-306		7
43	TeCReVis: A Tool for Test Coverage and Test Redundancy Visualization. <i>Lecture Notes in Computer Science</i> , 2010 , 129-136	0.9	7
42	A domain-specific language framework for farm management information systems in precision agriculture. <i>Precision Agriculture</i> , 2020 , 22, 1067	5.6	7
41	Maturity assessment and maturity models in health care: A multivocal literature review. <i>Digital Health</i> , 2020 , 6, 2055207620914772	4	7
40	Classification and trend analysis of UML books (1997-2009). <i>Software and Systems Modeling</i> , 2012 , 11, 273-285	1.9	6
39	. <i>IEEE Transactions on Games</i> , 2020 , 12, 246-259	1.2	6
38	Understanding the Knowledge Gaps of Software Engineers. <i>ACM Transactions on Computing Education</i> , 2020 , 20, 1-33	2.1	6
37	An empirical investigation of single-objective and multiobjective evolutionary algorithms for developer's assignment to bugs. <i>Journal of Software: Evolution and Process</i> , 2016 , 28, 1025-1060	1	6
36	When to automate software testing? A decision-support approach based on process simulation. <i>Journal of Software: Evolution and Process</i> , 2016 , 28, 272-285	1	6
35	. <i>IEEE Software</i> , 2020 , 37, 65-75	1.5	6
34	2018 ,		5
33	. <i>IEEE Software</i> , 2019 , 36, 63-75	1.5	5
32	On Adequacy of Assertions in Automated Test Suites: An Empirical Investigation 2013 ,		5

31	A Pilot Experiment to Quantify the Effect of Documentation Accuracy on Maintenance Tasks 2013 ,		5
30	Fault-driven stress testing of distributed real-time software based on UML models. <i>Software Testing Verification and Reliability</i> , 2011 , 21, 101-124	0.9	5
29	An Open Modern Software Testing Laboratory Courseware [An Experience Report 2010 ,		5
28	2018 ,		4
27	Cross-factor analysis of software modeling practices versus practitioner demographics in the embedded software industry 2017 ,		4
26	Test Cost-Effectiveness and Defect Density: A Case Study on the Android Platform. <i>Advances in Computers</i> , 2013 , 89, 163-206	2.9	4
25	Tool Support for Automated Traceability of Test/Code Artifacts in Embedded Software Systems 2011 ,		4
24	A Multivocal Literature Review of Function-as-a-Service (FaaS) Infrastructures and Implications for Software Developers. <i>Communications in Computer and Information Science</i> , 2020 , 58-75	0.3	4
23	Living in two different worlds: A comparison of industry and academic focus areas in software testing. <i>IEEE Software</i> , 2017 , 1-1	1.5	3
22	Exploring the industry's challenges in software testing: An empirical study. <i>Journal of Software: Evolution and Process</i> , 2020 , 32, e2251	1	3
21	Characterizing the Development and Usage of Diagrams in Embedded Software Systems 2017 ,		3
20	Usage, usefulness and quality of defect reports 2016 ,		3
19	Experience and challenges with UML-driven performance engineering of a Distributed Real-Time System. <i>Information and Software Technology</i> , 2010 , 52, 625-640	3.4	3
18	An Empirical Evaluation to Study Benefits of Visual versus Textual Test Coverage Information. <i>Lecture Notes in Computer Science</i> , 2010 , 189-193	0.9	3
17	Test Maturity Model integration (TMMi): Trends of worldwide test maturity and certifications. <i>IEEE Software</i> , 2021 , 0-0	1.5	3
16	Using Citation Behavior to Rethink Academic Impact in Software Engineering 2015 ,		2
15	A UML-Based Conversion Tool for Monitoring and Testing Multi-agent Systems 2008 ,		2
14	UML-Driven Software Performance Engineering. <i>Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series</i> , 2013 , 18-64	0.4	2

13	Together We Are Stronger: Evidence-Based Reflections on Industry-Academia Collaboration in Software Testing. <i>Lecture Notes in Business Information Processing</i> , 2020 , 3-12	0.6	2
12	Gray Literature Versus Academic Literature in Software Engineering: A Call for Epistemological Analysis. <i>IEEE Software</i> , 2021 , 38, 65-72	1.5	2
11	Transitioning from Manual to Automated Software Regression Testing: Experience from the Banking Domain 2018 ,		2
10	A Tool for Automated Inspection of Software Design Documents and Its Empirical Evaluation in an Aviation Industry Setting 2016 ,		1
9	Engineering control software systems: A multi-disciplinary challenge 2012 ,		1
8	IssuePlayer: An extensible framework for visual assessment of issue management in software development projects. <i>Journal of Visual Languages and Computing</i> , 2010 , 21, 121-135		1
7	Investigating the Impact of Team Formation by Introversion/Extraversion in Software Projects. <i>Balkan Journal of Electrical and Computer Engineering</i> , 64-73	0.3	1
6	What do users think of COVID-19 contact-tracing apps? An analysis of eight European apps. <i>IEEE Software</i> , 2021 , 0-0	1.5	1
5	Model-based testing in practice: An experience report from the web applications domain. <i>Journal of Systems and Software</i> , 2021 , 180, 111032	3.3	1
4	Retrieving and mining professional experience of software practice from grey literature: an exploratory review. <i>IET Software</i> , 2020 , 14, 665-676	1	0
3	Incorporating message weights in UML-based analysis of behavioral dependencies in distributed systems. <i>Software and Systems Modeling</i> , 2010 , 9, 113-137	1.9	
2	Test Automation with the Gauge Framework: Experience and Best Practices. <i>Lecture Notes in Computer Science</i> , 2020 , 458-470	0.9	
1	Motivations for and Benefits of Adopting the Test Maturity Model integration (TMMi). <i>Lecture Notes in Business Information Processing</i> , 2022 , 13-19	0.6	