Vahid Garousi

List of Publications by Year in Descending Order

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	Mining user reviews of COVID contact-tracing apps: An exploratory analysis of nine European apps. *Journal of Systems and Software*, **2022**, 184, 111136	3.3	7
119	Motivations for and Benefits of Adopting the Test Maturity Model integration (TMMi). *Lecture Notes in Business Information Processing*, **2022**, 13-19	0.6	
118	Gray Literature Versus Academic Literature in Software Engineering: A Call for Epistemological Analysis. *IEEE Software*, **2021**, 38, 65-72	1.5	2
117	What do users think of COVID-19 contact-tracing apps? An analysis of eight European apps. *IEEE Software*, **2021**, 0-0	1.5	1
116	Model-based testing in practice: An experience report from the web applications domain. *Journal of Systems and Software*, **2021**, 180, 111032	3.3	1
115	Test Maturity Model integration (TMMi): Trends of worldwide test maturity and certifications. *IEEE Software*, **2021**, 0-0	1.5	3
114	NLP-assisted software testing: A systematic mapping of the literature. *Information and Software Technology*, **2020**, 126, 106321	3.4	11
113	Software-testing education: A systematic literature mapping. *Journal of Systems and Software*, **2020**, 165, 110570	3.3	7
112	Exploring the industry's challenges in software testing: An empirical study. *Journal of Software: Evolution and Process*, **2020**, 32, e2251	1	3
111	Practical relevance of software engineering research: synthesizing the community's voice. *Empirical Software Engineering*, **2020**, 25, 1687-1754	3.3	10
110	Test Automation with the Gauge Framework: Experience and Best Practices. *Lecture Notes in Computer Science*, **2020**, 458-470	0.9	
109	Benefitting from the Grey Literature in Software Engineering Research **2020**, 385-413		7
108	Together We Are Stronger: Evidence-Based Reflections on Industry-Academia Collaboration in Software Testing. *Lecture Notes in Business Information Processing*, **2020**, 3-12	0.6	2
107	A Multivocal Literature Review of Function-as-a-Service (FaaS) Infrastructures and Implications for Software Developers. *Communications in Computer and Information Science*, **2020**, 58-75	0.3	4
106	Retrieving and mining professional experience of software practice from grey literature: an exploratory review. *IET Software*, **2020**, 14, 665-676	1	0
105	. *IEEE Transactions on Games*, **2020**, 12, 246-259	1.2	6
104	Understanding the Knowledge Gaps of Software Engineers. *ACM Transactions on Computing Education*, **2020**, 20, 1-33	2.1	6

103	A domain-specific language framework for farm management information systems in precision agriculture. *Precision Agriculture*, **2020**, 22, 1067	5.6	7
102	Maturity assessment and maturity models in health care: A multivocal literature review. *Digital Health*, **2020**, 6, 2055207620914772	4	7
101	Closing the Gap Between Software Engineering Education and Industrial Needs. *IEEE Software*, **2020**, 37, 68-77	1.5	27
100	. *IEEE Software*, **2020**, 37, 65-75	1.5	6
99	Aligning software engineering education with industrial needs: A meta-analysis. *Journal of Systems and Software*, **2019**, 156, 65-83	3.3	17
98	. *IEEE Software*, **2019**, 36, 63-75	1.5	5
97	Characterizing industry-academia collaborations in software engineering: evidence from 101 projects. *Empirical Software Engineering*, **2019**, 24, 2540-2602	3.3	12
96	A survey on software testability. *Information and Software Technology*, **2019**, 108, 35-64	3.4	10
95	What We Know About Smells in Software Test Code. *IEEE Software*, **2019**, 36, 61-73	1.5	10
94	Correlation of critical success factors with success of software projects: an empirical investigation. *Software Quality Journal*, **2019**, 27, 429-493	1.2	13
93	Guidelines for including grey literature and conducting multivocal literature reviews in software engineering. *Information and Software Technology*, **2019**, 106, 101-121	3.4	163
92	Hybrid Software Development Approaches in Practice: A European Perspective. *IEEE Software*, **2019**, 36, 20-31	1.5	30
91	What We Know about Software Test Maturity and Test Process Improvement. *IEEE Software*, **2018**, 35, 84-92	1.5	12
90	Smells in software test code: A survey of knowledge in industry and academia. *Journal of Systems and Software*, **2018**, 138, 52-81	3.3	44
89	What We Know about Testing Embedded Software. *IEEE Software*, **2018**, 35, 62-69	1.5	8
88	Testing embedded software: A survey of the literature. *Information and Software Technology*, **2018**, 104, 14-45	3.4	17
87	**2018**,		5
86	**2018**,		4

85	Transitioning from Manual to Automated Software Regression Testing: Experience from the Banking Domain **2018**,		2
84	A survey on modeling and model-driven engineering practices in the embedded software industry. *Journal of Systems Architecture*, **2018**, 91, 62-82	5.5	27
83	Multi-objective regression test selection in practice: An empirical study in the defense software industry. *Information and Software Technology*, **2018**, 103, 40-54	3.4	19
82	Software test maturity assessment and test process improvement: A multivocal literature review. *Information and Software Technology*, **2017**, 85, 16-42	3.4	48
81	Experience-based guidelines for effective and efficient data extraction in systematic reviews in software engineering **2017**,		11
80	Living in two different worlds: A comparison of industry and academic focus areas in software testing. *IEEE Software*, **2017**, 1-1	1.5	3
79	Quantity versus impact of software engineering papers: a quantitative study. *Scientometrics*, **2017**, 112, 963-1006	3	19
78	Test Automation: Not Just for Test Execution. *IEEE Software*, **2017**, 34, 90-96	1.5	17
77	Comparing automated visual GUI testing tools: an industrial case study **2017**,		11
76	Worlds Apart: Industrial and Academic Focus Areas in Software Testing. *IEEE Software*, **2017**, 34, 38-45	1.5	29
75	Choosing the Right Test Automation Tool **2017**,		15
74	Characterizing the Development and Usage of Diagrams in Embedded Software Systems **2017**,		3
73	What industry wants from academia in software testing? **2017**,		22
72	Hybrid software and system development in practice: waterfall, scrum, and beyond **2017**,		112
71	Cross-factor analysis of software modeling practices versus practitioner demographics in the embedded software industry **2017**,		4
70	Industry–academia collaborations in software testing: experience and success stories from Canada and Turkey. *Software Quality Journal*, **2017**, 25, 1091-1143	1.2	18
69	Industry-academia collaborations in software engineering **2017**,		8
68	Cross-factor analysis of software engineering practices versus practitioner demographics: An exploratory study in Turkey. *Journal of Systems and Software*, **2016**, 111, 49-73	3.3	7

67	Selecting the Right Topics for Industry-Academia Collaborations in Software Testing: An Experience Report **2016**,		12
66	A systematic literature review of literature reviews in software testing. *Information and Software Technology*, **2016**, 80, 195-216	3.4	61
65	A Tool for Automated Inspection of Software Design Documents and Its Empirical Evaluation in an Aviation Industry Setting **2016**,		1
64	The need for multivocal literature reviews in software engineering **2016**,		74
63	Usage, usefulness and quality of defect reports **2016**,		3
62	Citations, research topics and active countries in software engineering: A bibliometrics study. *Computer Science Review*, **2016**, 19, 56-77	8.3	50
61	Developing, Verifying, and Maintaining High-Quality Automated Test Scripts. *IEEE Software*, **2016**, 33, 68-75	1.5	27
60	Highly-cited papers in software engineering: The top-100. *Information and Software Technology*, **2016**, 71, 108-128	3.4	32
59	An empirical investigation of single-objective and multiobjective evolutionary algorithms for developer's assignment to bugs. *Journal of Software: Evolution and Process*, **2016**, 28, 1025-1060	1	6
58	When to automate software testing? A decision-support approach based on process simulation. *Journal of Software: Evolution and Process*, **2016**, 28, 272-285	1	6
57	When and what to automate in software testing? A multi-vocal literature review. *Information and Software Technology*, **2016**, 76, 92-117	3.4	80
56	Challenges and best practices in industry-academia collaborations in software engineering: A systematic literature review. *Information and Software Technology*, **2016**, 79, 106-127	3.4	85
55	A survey of software engineering practices in Turkey. *Journal of Systems and Software*, **2015**, 108, 148-177	3.3	48
54	A bibliometric analysis of the Turkish software engineering research community. *Scientometrics*, **2015**, 105, 23-49	3	31
53	Software test-code engineering: A systematic mapping. *Information and Software Technology*, **2015**, 58, 123-147	3.4	37
52	Cost, benefits and quality of software development documentation: A systematic mapping. *Journal of Systems and Software*, **2015**, 99, 175-198	3.3	42
51	Using Citation Behavior to Rethink Academic Impact in Software Engineering **2015**,		2
50	Citation and Topic Analysis of the ESEM Papers **2015**,		7

49	Usage and usefulness of technical software documentation: An industrial case study. *Information and Software Technology*, **2015**, 57, 664-682	3.4	13
48	Web application testing: A systematic literature review. *Journal of Systems and Software*, **2014**, 91, 174-201	2.3	38
47	A Search-Based Approach for Cost-Effective Software Test Automation Decision Support and an Industrial Case Study **2014**,		11
46	When to automate software testing? decision support based on system dynamics: an industrial case study **2014**,		11
45	Evaluating usage and quality of technical software documentation **2013**,		12
44	Graphical user interface (GUI) testing: Systematic mapping and repository. *Information and Software Technology*, **2013**, 55, 1679-1694	3.4	77
43	On Adequacy of Assertions in Automated Test Suites: An Empirical Investigation **2013**,		5
42	Test Cost-Effectiveness and Defect Density: A Case Study on the Android Platform. *Advances in Computers*, **2013**, 89, 163-206	2.9	4
41	A survey of software testing practices in Canada. *Journal of Systems and Software*, **2013**, 86, 1354-1376	3.3	80
40	A systematic mapping study of web application testing. *Information and Software Technology*, **2013**, 55, 1374-1396	3.4	50
39	A BIBLIOMETRIC/GEOGRAPHIC ASSESSMENT OF 40 YEARS OF SOFTWARE ENGINEERING RESEARCH (1969–2009). *International Journal of Software Engineering and Knowledge Engineering*, **2013**, 23, 1343-1366	1	17
38	A Pilot Experiment to Quantify the Effect of Documentation Accuracy on Maintenance Tasks **2013**,		5
37	DEVELOPMENT OF SCIENTIFIC SOFTWARE: A SYSTEMATIC MAPPING, A BIBLIOMETRICS STUDY, AND A PAPER REPOSITORY. *International Journal of Software Engineering and Knowledge Engineering*, **2013**, 23, 463-506	1	21
36	UML-Driven Software Performance Engineering. *Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series*, **2013**, 18-64	0.4	2
35	Engineering control software systems: A multi-disciplinary challenge **2012**,		1
34	Visual testing of Graphical User Interfaces: An exploratory study towards systematic definitions and approaches **2012**,		7
33	Automated Unit Testing of a SCADA Control Software: An Industrial Case Study Based on Action Research **2012**,		15
32	Classification and trend analysis of UML books (1997–2009). *Software and Systems Modeling*, **2012**, 11, 273-285	1.9	6

31	Tool Support for Automated Traceability of Test/Code Artifacts in Embedded Software Systems **2011**,		4
30	Fault-driven stress testing of distributed real-time software based on UML models. *Software Testing Verification and Reliability*, **2011**, 21, 101-124	0.9	5
29	Incorporating real-world industrial testing projects in software testing courses: Opportunities, challenges, and lessons learned **2011**,		7
28	A Genetic Algorithm-Based Stress Test Requirements Generator Tool and Its Empirical Evaluation. *IEEE Transactions on Software Engineering*, **2010**, 36, 778-797	3.5	18
27	SEARCH-BASED TESTING OF MULTI-AGENT MANUFACTURING SYSTEMS FOR DEADLOCKS BASED ON MODELS. *International Journal on Artificial Intelligence Tools*, **2010**, 19, 417-437	0.9	7
26	An Open Modern Software Testing Laboratory Courseware An Experience Report **2010**,		5
25	Current State of the Software Testing Education in North American Academia and Some Recommendations for the New Educators **2010**,		7
24	Incorporating message weights in UML-based analysis of behavioral dependencies in distributed systems. *Software and Systems Modeling*, **2010**, 9, 113-137	1.9	
23	An MILP-based formulation for minimizing pumping energy costs of oil pipelines: beneficial to both the environment and pipeline companies. *Energy Systems*, **2010**, 1, 393-416	1.7	14
22	. *IEEE Transactions on Education*, **2010**, 53, 182-193	2.1	14
21	IssuePlayer: An extensible framework for visual assessment of issue management in software development projects. *Journal of Visual Languages and Computing*, **2010**, 21, 121-135		1
20	A replicated survey of software testing practices in the Canadian province of Alberta: What has changed from 2004 to 2009?. *Journal of Systems and Software*, **2010**, 83, 2251-2262	3.3	34
19	Decision support for moving from a single product to a product portfolio in evolving software systems. *Journal of Systems and Software*, **2010**, 83, 2496-2512	3.3	19
18	Experience and challenges with UML-driven performance engineering of a Distributed Real-Time System. *Information and Software Technology*, **2010**, 52, 625-640	3.4	3
17	An Open-Source Tool for Automated Generation of Black-Box xUnit Test Code and Its Industrial Evaluation. *Lecture Notes in Computer Science*, **2010**, 118-128	0.9	9
16	TeCReVis: A Tool for Test Coverage and Test Redundancy Visualization. *Lecture Notes in Computer Science*, **2010**, 129-136	0.9	7
15	An Empirical Evaluation to Study Benefits of Visual versus Textual Test Coverage Information. *Lecture Notes in Computer Science*, **2010**, 189-193	0.9	3
14	Test Redundancy Measurement Based on Coverage Information: Evaluations and Lessons Learned **2009**,		10

13	A UML-based quantitative framework for early prediction of resource usage and load in distributed real-time systems. *Software and Systems Modeling*, **2009**, 8, 275-302	1.9	10
12	A customizable pattern-based software process simulation model: design, calibration and application. *Software Process Improvement and Practice*, **2009**, 14, 165-180		13
11	Evidence-Based Insights about Issue Management Processes: An Exploratory Study. *Lecture Notes in Computer Science*, **2009**, 112-123	0.9	11
10	A UML-Based Conversion Tool for Monitoring and Testing Multi-agent Systems **2008**,		2
9	Empirical analysis of a genetic algorithm-based stress test technique **2008**,		12
8	Traffic-aware Stress Testing of Distributed Real-Time Systems Based on UML Models in the Presence of Time Uncertainty **2008**,		13
7	Monitoring Multi-Agent Systems for deadlock detection based on UML models. *Canadian Conference on Electrical and Computer Engineering*, **2008**,		7
6	Traffic-aware stress testing of distributed real-time systems based on UML models using genetic algorithms. *Journal of Systems and Software*, **2008**, 81, 161-185	3.3	29
5	GENSIM 2.0: A Customizable Process Simulation Model for Software Process Evaluation **2008**, 294-306		7
4	Traffic-aware stress testing of distributed systems based on UML models **2006**,		30
3	Analysis and Visualization of Behavioral Dependencies Among Distributed Objects Based on UML Models. *Lecture Notes in Computer Science*, **2006**, 365-379	0.9	11
2	Control Flow Analysis of UML 2.0 Sequence Diagrams. *Lecture Notes in Computer Science*, **2005**, 160-174	0.9	34
1	Investigating the Impact of Team Formation by Introversion/Extraversion in Software Projects. *Balkan Journal of Electrical and Computer Engineering*,64-73	0.3	1