Per Runeson

List of Publications by Year
in descending order

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154 papers	11,166 citations	172207 29 h-index	60497 81 g-index
165 all docs	165 docs citations	165 times ranked	4888 citing authors

#	Article	IF	Citations
1	Guidelines for conducting and reporting case study research in software engineering. Empirical Software Engineering, 2009, 14, 131-164.	3.0	2,471
2	Experimentation in Software Engineering. , 2012, , .		2,155
3	Experimentation in Software Engineering. Kluwer International Series in Software Engineering, 2000, , .	0.6	1,592
4	Detection of Duplicate Defect Reports Using Natural Language Processing. Proceedings - International Conference on Software Engineering, 2007, , .	0.0	388
5	Software product line testing â€“ A systematic mapping study. Information and Software Technology, 2011, 53, 2-13.	3.0	262
6	A systematic review on regression test selection techniques. Information and Software Technology, 2010, 52, 14-30.	3.0	220
7	A survey of unit testing practices. IEEE Software, 2006, 23, 22-29.	2.1	152
8	On the reliability of mapping studies in software engineering. Journal of Systems and Software, 2013, 86, 2594-2610.	3.3	142
9	Combining Agile Methods with Stage-Gate Project Management. IEEE Software, 2005, 22, 43-49.	2.1	118
10	A Replicated Quantitative Analysis of Fault Distributions in Complex Software Systems. IEEE Transactions on Software Engineering, 2007, 33, 273-286.	4.3	114
11	Recovering from a decade: a systematic mapping of information retrieval approaches to software traceability. Empirical Software Engineering, 2014, 19, 1565-1616.	3.0	114
12	Integrating agile software development into stage-gate managed product development. Empirical Software Engineering, 2006, 11, 203-225.	3.0	104
13	Case studies synthesis: a thematic, cross-case, and narrative synthesis worked example. Empirical Software Engineering, 2015, 20, 1634-1665.	3.0	104
14	An experimental comparison of usage-based and checklist-based reading. IEEE Transactions on Software Engineering, 2003, 29, 687-704.	4.3	102
15	Automated bug assignment: Ensemble-based machine learning in large scale industrial contexts. Empirical Software Engineering, 2016, 21, 1533-1578.	3.0	100
16	Title is missing!. Empirical Software Engineering, 2000, 5, 331-356.	3.0	80
17	A Qualitative Survey of Regression Testing Practices. Lecture Notes in Computer Science, 2010, , 3-16.	1.0	77
18	What do we know about defect detection methods? [software testing. IEEE Software, 2006, 23, 82-90.	2.1	75

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19	Challenges and practices in aligning requirements with verification and validation: a case study of six companies. Empirical Software Engineering, 2014, 19, 1809-1855.	3.0	69
20	Checklists for Software Engineering Case Study Research. , 2007, , .		68
21	Empirical evaluations of regression test selection techniques. , 2008, , .		67
22	Certification of software components. IEEE Transactions on Software Engineering, 1994, 20, 494-499.	4.3	61
23	Title is missing!. Empirical Software Engineering, 1998, 3, 381-406.	3.0	58
24	Captureâ€“recapture in software inspections after 10 years researchâ€“â€“theory, evaluation and application. Journal of Systems and Software, 2004, 72, 249-264.	3.3	57
25	Usage-based readingâ€”an experiment to guide reviewers with use cases. Information and Software Technology, 2001, 43, 925-938.	3.0	54
26	Open innovation in software engineering: a systematic mapping study. Empirical Software Engineering, 2016, 21, 684-723.	3.0	54
27	A Second Replicated Quantitative Analysis of Fault Distributions in Complex Software Systems. IEEE Transactions on Software Engineering, 2013, 39, 462-476.	4.3	48
28	Four commentaries on the use of students and professionals in empirical software engineering experiments. Empirical Software Engineering, 2018, 23, 3801-3820.	3.0	48
29	Can we evaluate the quality of software engineering experiments?. , 2010, , .		43
30	An experimental evaluation of capture-recapture in software inspections. Software Testing Verification and Reliability, 1995, 5, 213-232.	1.7	42
31	A theory of distances in software engineering. Information and Software Technology, 2016, 70, 204-219.	3.0	38
32	Efficient evaluation of multifactor dependent system performance using fractional factorial design. IEEE Transactions on Software Engineering, 2003, 29, 769-781.	4.3	36
33	Reference-based search strategies in systematic reviews. , 2009, , .		35
34	Supporting Change Impact Analysis Using a Recommendation System: An Industrial Case Study in a Safety-Critical Context. IEEE Transactions on Software Engineering, 2017, 43, 675-700.	4.3	34
35	Prioritized use cases as a vehicle for software inspections. IEEE Software, 2003, 20, 30-33.	2.1	33
36	Test processes in software product evolution-a qualitative survey on the state of practice. Journal of Software: Evolution and Process, 2003, 15, 41-59.	1.1	32

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37	Improving Regression Testing Transparency and Efficiency with History-Based Prioritization -- An Industrial Case Study. , 2011, , .		32
38	Open innovation using open source tools: a case study at Sony Mobile. Empirical Software Engineering, 2018, 23, 186-223.	3.0	31
39	Levels of Exploration in Exploratory Testing: From Freestyle to Fully Scripted. IEEE Access, 2018, 6, 26416-26423.	2.6	31
40	A spiral process model for case studies on software quality monitoringâ€"method and metrics. Software Process Improvement and Practice, 2007, 12, 125-140.	1.1	29
41	A Machine Learning Approach for Semi-Automated Search and Selection in Literature Studies. , 2017, , .		29
42	Verification and validation in industry - a qualitative survey on the state of practice. , 0, , .		28
43	A survey of lead-time challenges in the development and evolution of distributed real-time systems. Information and Software Technology, 2000, 42, 947-958.	3.0	27
44	An Empirical Evaluation of Regression Testing Based on Fix-Cache Recommendations. , 2010, , .		26
45	Evaluation of Usage-Based Readingâ€"Conclusions after Three Experiments. Empirical Software Engineering, 2004, 9, 77-110.	3.0	25
46	How software engineering research aligns with design science: a review. Empirical Software Engineering, 2020, 25, 2630-2660.	3.0	25
47	Challenges in Aligning Requirements Engineering and Verification in a Large-Scale Industrial Context. Lecture Notes in Computer Science, 2010, , 128-142.	1.0	22
48	A minimal test practice framework for emerging software organizations. Software Testing Verification and Reliability, 2005, 15, 145-166.	1.7	21
49	Continuous experimentation and A/B testing. , 2018, , .		21
50	Guiding the selection of research methodology in industryâ€"academia collaboration in software engineering. Information and Software Technology, 2021, 140, 106678.	3.0	20
51	Towards integration of use case modelling and usage-based testing. Journal of Systems and Software, 2000, 50, 117-130.	3.3	19
52	A theory of openness for software engineering tools in software organizations. Information and Software Technology, 2018, 97, 26-45.	3.0	19
53	Relevant Information Sources for Successful Technology Transfer: A Survey Using Inspections as an Example. , 2007, , .		18
54	Roundtable: What's Next in Software Analytics. IEEE Software, 2013, 30, 53-56.	2.1	17

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55	Bridges and barriers to hardware-dependent software ecosystem participation â€“ A case study. Information and Software Technology, 2014, 56, 1493-1507.	3.0	17
56	Detection or isolation of defects? an experimental comparison of unit testing and code inspection. , 0, , .		16
57	It Takes Two to Tango -- An Experience Report on Industry -- Academia Collaboration. , 2012, , .		16
58	Trends in the Quality of Human-Centric Software Engineering Experiments--A Quasi-Experiment. IEEE Transactions on Software Engineering, 2013, 39, 1002-1017.	4.3	16
59	Using a Visual Abstract as a Lens for Communicating and Promoting Design Science Research in Software Engineering. , 2017, , .		16
60	Experience from replicating empirical studies on prediction models. , 0, , .		15
61	The 4+1 view model of industry--academia collaboration. , 2014, , .		15
62	Variation factors in the design and analysis of replicated controlled experiments. Empirical Software Engineering, 2014, 19, 1781-1808.	3.0	15
63	Open Data Ecosystems â€" An empirical investigation into an emerging industry collaboration concept. Journal of Systems and Software, 2021, 182, 111088.	3.3	15
64	Systematic Literature Reviews. , 2012, , 45-54.		15
65	Robust estimations of fault content with captureâ€"recapture and detection profile estimators. Journal of Systems and Software, 2000, 52, 139-148.	3.3	14
66	Confidence intervals for captureâ€"recapture estimations in software inspections. Information and Software Technology, 2002, 44, 683-702.	3.0	14
67	Evaluation of a perspective based review method applied in an industrial setting. IET Software, 2003, 150, 177.	1.0	14
68	A case study on regression test suite maintenance in system evolution. , 0, , .		14
69	Applying sampling to improve software inspections. Journal of Systems and Software, 2004, 73, 257-269.	3.3	14
70	A case study of the class firewall regression test selection technique on a large scale distributed software system. , 0, , .		14
71	Testing Software Product Lines. IEEE Software, 2011, 28, 16-20.	2.1	14
72	Test overlay in an emerging software product line â€" An industrial case study. Information and Software Technology, 2013, 55, 581-594.	3.0	14

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73	Evaluating the Governance Model of Hardware-Dependent Software Ecosystems â€“ A Case Study of the Axis Ecosystem. Lecture Notes in Business Information Processing, 2014, , 212-226.	0.8	14
74	The Design Science Paradigm as a Frame for Empirical Software Engineering. , 2020, , 127-147.		14
75	Case Studies Synthesis: Brief Experience and Challenges for the Future. , 2011, , .		13
76	Three empirical studies on the agreement of reviewers about the quality of software engineering experiments. Information and Software Technology, 2012, 54, 804-819.	3.0	13
77	A replicated study on duplicate detection. , 2014, , .		13
78	A replicated experiment of usage-based and checklist-based reading. , 0, , .		12
79	IMPROVING CLASS FIREWALL REGRESSION TEST SELECTION BY REMOVING THE CLASS FIREWALL. International Journal of Software Engineering and Knowledge Engineering, 2007, 17, 359-378.	0.6	12
80	IR in Software Traceability: From a Bird's Eye View. , 2013, , .		12
81	Challenges in Flexible Safety-Critical Software Development â€“ An Industrial Qualitative Survey. Lecture Notes in Computer Science, 2013, , 283-297.	1.0	12
82	Controlled experimentation in continuous experimentation: Knowledge and challenges. Information and Software Technology, 2021, 134, 106551.	3.0	12
83	Early identification of bottlenecks in very large scale system of systems software development. Journal of Software: Evolution and Process, 2014, 26, 1150-1171.	1.2	11
84	How much information is needed for usage-based reading? A series of experiments. , 0, , .		10
85	Fault-Prone Filtering: Detection of Fault-Prone Modules Using Spam Filtering Technique. , 2007, , .		10
86	Software Product Line Testing -- A 3D Regression Testing Problem. , 2012, , .		10
87	Regression Testing in Software Product Line Engineering. Advances in Computers, 2012, 86, 223-263.	1.2	10
88	Alignment practices affect distances in software development: a theory and a model. , 2014, , .		10
89	Towards a framework to support large scale sampling in software engineering surveys. , 2014, , .		10
90	Open Collaborative Data - using OSS Principles to Share Data in SW Engineering. , 2019, , .		10

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91	How to Enable Collaboration in Open Government Data Ecosystems: A Public Platform Providerâ€™s Perspective. EJournal of EDemocracy and Open Government, 2021, 13, 1-30.	0.6	10
92	Engineering Open Innovation â€“ Towards a Framework for Fostering Open Innovation. Lecture Notes in Business Information Processing, 2013, , 48-59.	0.8	9
93	Changes, Evolution, and Bugs. , 2014, , 477-509.		9
94	Evaluation of traceability recovery in context: a taxonomy for information retrieval tools. , 2012, , .		8
95	Analyzing Networks of Issue Reports. , 2013, , .		8
96	A quantitative analysis of the unit verification perspective on fault distributions in complex software systems: an operational replication. Software Quality Journal, 2016, 24, 967-995.	1.4	8
97	Aggregating viewpoints for strategic software process improvementâ€”a method and a case study. IET Software, 2002, 149, 143.	1.0	7
98	An experimental evaluation of inspection and testing for detection of design faults. , 0, , .		7
99	SimPal. ACM SIGAPP Applied Computing Review: A Publication of the Special Interest Group on Applied Computing, 2013, 13, 17-29.	0.5	7
100	A Survey on the Perception of Innovation in a Large Product-Focused Software Organization. Lecture Notes in Business Information Processing, 2015, , 66-80.	0.8	7
101	Software Engineers' Information Seeking Behavior in Change Impact Analysis - An Interview Study. , 2017, , .		7
102	Architecture Design Recovery of a Family of Embedded Software Systems. IFIP Advances in Information and Communication Technology, 1999, , 3-14.	0.5	7
103	Experiment Process. , 2012, , 73-81.		7
104	A Framework for Design Tradeoffs. Software Quality Journal, 2005, 13, 377-405.	1.4	6
105	Test Benchmarks -- what is the question?. , 2008, , .		6
106	A Comparative Analysis of Three Replicated Experiments Comparing Inspection and Unit Testing. , 2011, , .		6
107	A model-based framework for flexible safety-critical software development. , 2013, , .		6
108	Supporting Regression Test Scoping with Visual Analytics. , 2014, , .		6

#	Article	IF	Citations
109	Governance and Management of Green IT: A Multi-Case Study. Information and Software Technology, 2021, 129, 106414.	3.0	6
110	Closing the Feedback Loop in DevOps Through Autonomous Monitors in Operations. SN Computer Science, 2021, 2, 1.	2.3	6
111	Usage of Open Source in Commercial Software Product Development â€“ Findings from a Focus Group Meeting. Lecture Notes in Computer Science, 2011, , 143-155.	1.0	6
112	Software quality assurance-concepts and misconceptions. , 0, , .		5
113	Sensitivity of software system reliability to usage profile changes. , 2007, , .		5
114	Systems, Software and Service Process Improvement. Communications in Computer and Information Science, 2011, , .	0.4	5
115	Get the cogs in synch. , 2014, , .		5
116	Concepts in Testing of Autonomous Systems: Academic Literature and Industry Practice. , 2021, , .		5
117	Decision Support for Test Management and Scope Selection in a Software Product Line Context. , 2011, , .		4
118	Cognitive Load Drivers in Large Scale Software Development. , 2019, , .		4
119	A case study of industryâ€“academia communication in a joint software engineering research project. Journal of Software: Evolution and Process, 2021, 33, e2372.	1.2	4
120	Tutorial: Case Studies in Software Engineering. Lecture Notes in Business Information Processing, 2009, , 441-442.	0.8	4
121	Public Sector Platforms going Open. , 2020, , .		4
122	Defect content estimation for two reviewers. , 2001, , .		3
123	Decision support for extreme programming introduction and practice selection. , 2002, , .		3
124	Intra-Class Testing of Abstract Class Features. , 2007, , .		3
125	Software Business. Towards Continuous Value Delivery. Lecture Notes in Business Information Processing, 2014, , .	0.8	3
126	Software testing in open innovation: an exploratory case study of the acceptance test harness for jenkins. , 2015, , .		3

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127	Are the Perspectives Really Different?: Further Experimentation on Scenario-Based Reading of Requirements. , 2012, , 175-200.		3
128	Empirical Strategies. , 2012, , 9-36.		3
129	Operation. , 2012, , 117-122.		3
130	Investigating Test Teams' Defect Detection in Function test. , 2007, , .		2
131	Analysis and Interpretation. , 2012, , 123-151.		2
132	Navigating Information Overload Caused by Automated Testing - a Clustering Approach in Multi-Branch Development. , 2015, , .		2
133	Plug-in software engineering case studies. , 2016, , .		2
134	Foreword to the special issue on empirical evidence on software product line engineering. Empirical Software Engineering, 2016, 21, 1579-1585.	3.0	2
135	PalCom MIST: A Metaprotocol for Internet Systems of Things. , 2018, , .		2
136	Automated Controlled Experimentation on Software by Evolutionary Bandit Optimization. Lecture Notes in Computer Science, 2017, , 190-196.	1.0	2
137	A Self-assessment Framework for Finding Improvement Objectives with ISO/IEC 29119 Test Standard. Communications in Computer and Information Science, 2011, , 25-36.	0.4	2
138	Open Tools for Software Engineering. , 2019, , .		1
139	How Companies Use OSS Tools Ecosystems for Open Innovation. IT Professional, 2019, 21, 40-45.	1.4	1
140	Challenges and Opportunities in Open Data Collaboration â€“ a focus group study. , 2020, , .		1
141	Experiment Process Illustration. , 2012, , 161-174.		1
142	Statistical Usage Testing Using SDL. , 1995, , 323-336.		1
143	Open data collaborations. , 2019, , .		1
144	SOFTWARE RELIABILITY ESTIMATIONS THROUGH USAGE ANALYSIS OF SPECIFICATIONS AND DESIGNS. International Journal of Reliability, Quality and Safety Engineering, 1996, 03, 101-117.	0.4	0

#	Article	IF	Citations
145	A case study using sampling to improve software inspection effectiveness. , 0, , .		0
146	Requirements trade-offs during UML design. , 0, , .		0
147	Introduction by the Program Chairs. , 2009, , .		0
148	ICST 2009 Special Issue. Software Testing Verification and Reliability, 2011, 21, 153-154.	1.7	0
149	Guest editorial: special section on regression testing. Software Quality Journal, 2014, 22, 699-699.	1.4	0
150	Unit Verification Effects on Reused Components in Sequential Project Releases. , 2017, , .		0
151	A Factorial Experimental Evaluation of Automated Test Input Generation. Lecture Notes in Computer Science, 2011, , 217-231.	1.0	0
152	Presentation and Package. , 2012, , 153-157.		0
153	Scoping. , 2012, , 85-88.		0
154	Collaborative Aspects of Open Data in Software Engineering. IEEE Software, 2022, 39, 31-35.	2.1	0