

Phil McMinn

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

3,368
citations

687363

13
h-index

752698

20
g-index

47
all docs

47
docs citations

47
times ranked

1749
citing authors

#	ARTICLE	IF	CITATIONS
1	Search-based software test data generation: a survey. <i>Software Testing Verification and Reliability</i> , 2004, 14, 105-156.	2.0	927
2	The Oracle Problem in Software Testing: A Survey. <i>IEEE Transactions on Software Engineering</i> , 2015, 41, 507-525.	5.6	608
3	An orchestrated survey of methodologies for automated software test case generation. <i>Journal of Systems and Software</i> , 2013, 86, 1978-2001.	4.5	493
4	A Theoretical and Empirical Study of Search-Based Testing: Local, Global, and Hybrid Search. <i>IEEE Transactions on Software Engineering</i> , 2010, 36, 226-247.	5.6	298
5	Search-Based Software Testing: Past, Present and Future. , 2011, , .		200
6	Do Automatically Generated Unit Tests Find Real Faults? An Empirical Study of Effectiveness and Challenges (T). , 2015, , .		152
7	Does Automated Unit Test Generation Really Help Software Testers? A Controlled Empirical Study. <i>ACM Transactions on Software Engineering and Methodology</i> , 2015, 24, 1-49.	6.0	92
8	A Memetic Algorithm for whole test suite generation. <i>Journal of Systems and Software</i> , 2015, 103, 311-327.	4.5	57
9	An integrated systems biology approach to understanding the rules of keratinocyte colony formation. <i>Journal of the Royal Society Interface</i> , 2007, 4, 1077-1092.	3.4	52
10	An empirical investigation into branch coverage for C programs using CUTE and AUSTIN. <i>Journal of Systems and Software</i> , 2010, 83, 2379-2391.	4.5	50
11	Automated repair of layout cross browser issues using search-based techniques. , 2017, , .		35
12	Search-Based Testing of Relational Schema Integrity Constraints Across Multiple Database Management Systems. , 2013, , .		29
13	Automatic Detection of Potential Layout Faults Following Changes to Responsive Web Pages (N). , 2015, , .		27
14	Design and analysis of different alternating variable searches for search-based software testing. <i>Theoretical Computer Science</i> , 2015, 605, 1-20.	0.9	26
15	Automated layout failure detection for responsive web pages without an explicit oracle. , 2017, , .		25
16	Agent Based Modelling Helps in Understanding the Rules by Which Fibroblasts Support Keratinocyte Colony Formation. <i>PLoS ONE</i> , 2008, 3, e2129.	2.5	24
17	Automated Repair of Internationalization Presentation Failures in Web Pages Using Style Similarity Clustering and Search-Based Techniques. , 2018, , .		24
18	Supervised software modularisation. , 2012, , .		23

#	ARTICLE	IF	CITATIONS
19	Automated repair of mobile friendly problems in web pages. , 2018, , .		22
20	Automatic generation of valid and invalid test data for string validation routines using web searches and regular expressions. Science of Computer Programming, 2015, 97, 405-425.	1.9	20
21	Random or evolutionary search for object-oriented test suite generation?. Software Testing Verification and Reliability, 2018, 28, e1660.	2.0	18
22	Validation and discovery from computational biology models. BioSystems, 2008, 93, 141-150.	2.0	14
23	Efficient Mutation Analysis of Relational Database Structure Using Mutant Schemata and Parallelisation. , 2013, , .		14
24	An identification of program factors that impact crossover performance in evolutionary test input generation for the branch coverage of C programs. Information and Software Technology, 2013, 55, 153-172.	4.4	12
25	XFix: an automated tool for the repair of layout cross browser issues. , 2017, , .		12
26	Establishing the Source Code Disruption Caused by Automated Remodularisation Tools. , 2014, , .		11
27	ReDeCheck: an automatic layout failure checking tool for responsively designed web pages. , 2017, , .		10
28	Automatic Detection and Removal of Ineffective Mutants for the Mutation Analysis of Relational Database Schemas. IEEE Transactions on Software Engineering, 2019, 45, 427-463.	5.6	10
29	Automatically identifying potential regressions in the layout of responsive web pages. Software Testing Verification and Reliability, 2020, 30, e1748.	2.0	10
30	Mutation Operators for Agent-Based Models. , 2010, , .		9
31	SchemaAnalyst: Search-Based Test Data Generation for Relational Database Schemas. , 2016, , .		9
32	Effective automated repair of internationalization presentation failures in web applications using style similarity clustering and search-based techniques. Software Testing Verification and Reliability, 2021, 31, .	2.0	8
33	Automatic Visual Verification of Layout Failures in Responsively Designed Web Pages. , 2019, , .		7
34	Search-Based Propagation of Regression Faults in Automated Regression Testing. , 2013, , .		6
35	AVMf: An Open-Source Framework and Implementation of the Alternating Variable Method. Lecture Notes in Computer Science, 2016, , 259-266.	1.3	5
36	Effectively Incorporating Expert Knowledge in Automated Software Remodularisation. IEEE Transactions on Software Engineering, 2018, 44, 613-630.	5.6	5

#	ARTICLE	IF	CITATIONS
37	Simulating Student Mistakes to Evaluate the Fairness of Automated Grading. , 2019, , .		5
38	What Factors Make SQL Test Cases Understandable for Testers? A Human Study of Automated Test Data Generation Techniques. , 2019, , .		5
39	How Does Program Structure Impact the Effectiveness of the Crossover Operator in Evolutionary Testing?. , 2010, , .		4
40	Automated visual classification of DOM-based presentation failure reports for responsive web pages. Software Testing Verification and Reliability, 2021, 31, e1756.	2.0	3
41	A multiobjective optimisation approach for the dynamic inference and refinement of agent-based model specifications. , 2011, , .		2
42	STICCER: Fast and Effective Database Test Suite Reduction Through Merging of Similar Test Cases. , 2020, , .		2
43	Automated Repair of Responsive Web Page Layouts. , 2022, , .		2
44	Disposable Testing: Avoiding Maintenance of Generated Unit Tests by Throwing Them Away. , 2017, , .		1
45	Editorial: Addressing industrial challengesâ€”UKTest 2005 and beyond. Software Testing Verification and Reliability, 2006, 16, 131-132.	2.0	0
46	Editorial: Testing practice and research. Software Testing Verification and Reliability, 2008, 18, 69-70.	2.0	0
47	TAIC PART 2007 and Mutation 2007 special issue editorial. Journal of Systems and Software, 2009, 82, 1753-1754.	4.5	0