

# Zhi Quan Zhou

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8028526/publications.pdf>

Version: 2024-02-01

40  
papers

1,122  
citations

933410

10  
h-index

940516

16  
g-index

40  
all docs

40  
docs citations

40  
times ranked

408  
citing authors

#	ARTICLE	IF	CITATIONS
1	Metamorphic Testing. ACM Computing Surveys, 2019, 51, 1-27.	23.0	234
2	Metamorphic testing of driverless cars. Communications of the ACM, 2019, 62, 61-67.	4.5	146
3	Metamorphic Testing for Software Quality Assessment: A Study of Search Engines. IEEE Transactions on Software Engineering, 2016, 42, 264-284.	5.6	112
4	Automated functional testing of online search services. Software Testing Verification and Reliability, 2012, 22, 221-243.	2.0	69
5	Metamorphic Relations for Enhancing System Understanding and Use. IEEE Transactions on Software Engineering, 2020, 46, 1120-1154.	5.6	66
6	Semi-Proving: An Integrated Method for Program Proving, Testing, and Debugging. IEEE Transactions on Software Engineering, 2011, 37, 109-125.	5.6	64
7	Metamorphic Testing for Cybersecurity. Computer, 2016, 49, 48-55.	1.1	64
8	Metamorphic Testing: Testing the Untestable. IEEE Software, 2020, 37, 46-53.	1.8	59
9	A revisit of three studies related to random testing. Science China Information Sciences, 2015, 58, 1-9.	4.3	56
10	Using Coverage Information to Guide Test Case Selection in Adaptive Random Testing. , 2010, , .		32
11	On the Correlation between the Effectiveness of Metamorphic Relations and Dissimilarities of Test Case Executions. , 2013, , .		31
12	Metamorphic Fuzz Testing of Autonomous Vehicles. , 2020, , .		24
13	Metamorphic Robustness Testing: Exposing Hidden Defects in Citation Statistics and Journal Impact Factors. IEEE Transactions on Software Engineering, 2021, 47, 1164-1183.	5.6	20
14	Metamorphic Testing for Machine Translations: MT4MT. , 2018, , .		19
15	On the Fault-Detection Capabilities of Adaptive Random Test Case Prioritization: Case Studies with Large Test Suites. , 2012, , .		18
16	A monte carlo method for metamorphic testing of machine translation services. , 2018, , .		12
17	Metamorphic testing 20 years later. , 2018, , .		12
18	Metamorphic testing: A new student engagement approach for a new software testing paradigm. , 2016, , .		9

#	ARTICLE	IF	CITATIONS
19	Input Test Suites for Program Repair: A Novel Construction Method Based on Metamorphic Relations. IEEE Transactions on Reliability, 2021, 70, 285-303.	4.6	9
20	MT4NS: Metamorphic Testing for Network Scanning. , 2021, , .		9
21	Metamorphic Testing: Applications and Integration with Other Methods: Tutorial Synopsis. , 2012, , .		8
22	A cost-effective software testing strategy employing online feedback information. Information Sciences, 2018, 422, 318-335.	6.9	8
23	Adaptive Random Testing for Image Comparison in Regression Web Testing. , 2014, , .		7
24	Beating Random Test Case Prioritization. IEEE Transactions on Reliability, 2021, 70, 654-675.	4.6	5
25	Metamorphic Robustness Testing of Google Translate. , 2020, , .		5
26	Enhancing Euro NCAP Standards with Metamorphic Testing for Verification of Advanced Driver-Assistance Systems. , 2021, , .		4
27	Using metamorphic relations to verify and enhance Artcode classification. Journal of Systems and Software, 2021, 182, 111060.	4.5	4
28	Enhancing supervised classifications with metamorphic relations. , 2018, , .		3
29	Metamorphic Testing of Fake News Detection Software. , 2021, , .		3
30	A Testing Tool for Machine Learning Applications. , 2020, , .		3
31	Metamorphic testing of named entity recognition systems: A case study. IET Software, 2022, 16, 386-404.	2.1	2
32	Preparing Future SQA Professionals: An Experience Report of Metamorphic Exploration of an Autonomous Driving System. , 2022, , .		2
33	An Extended Abstract of "Metamorphic Testing: Testing the Untestable". , 2019, , .		1
34	Preparing Software Quality Assurance Professionals: Metamorphic Exploration for Machine Learning. , 2019, , .		1
35	Metamorphic Testing of Mapping Software. Lecture Notes in Business Information Processing, 2019, , 1-20.	1.0	1
36	Function Substitution: Towards Constraint Solving in Software Testing. , 2012, , .		0

#	ARTICLE	IF	CITATIONS
37	Similarity-Based Search for Model Checking: A Pilot Study with Java PathFinder. , 2013, , .		0
38	Metamorphic Testing for Block Ciphers. , 2021, , .		0
39	MTKeras: An Automated Metamorphic Testing Platform. International Journal of Software Engineering and Knowledge Engineering, 2021, 31, 1235-1249.	0.8	0
40	ARCAMETES. , 2020, , .		0