

Rui Abreu

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8968836/publications.pdf>

Version: 2024-02-01

120
papers

4,209
citations

777949

13
h-index

355658

38
g-index

133
all docs

133
docs citations

133
times ranked

1495
citing authors

#	ARTICLE	IF	CITATIONS
1	Syrius: Synthesis of Rules for Intrusion Detectors. IEEE Transactions on Reliability, 2022, 71, 370-381.	3.5	5
2	Maestro: a platform for benchmarking automatic program repair tools on software vulnerabilities. , 2022, , .		3
3	On the Energy Footprint of Mobile Testing Frameworks. IEEE Transactions on Software Engineering, 2021, 47, 2260-2271.	4.3	14
4	A Theoretical and Empirical Analysis of Program Spectra Diagnosability. IEEE Transactions on Software Engineering, 2021, 47, 412-431.	4.3	4
5	Supervised Learning for Test Suit Selection in Continuous Integration. , 2021, , .		3
6	Spectrum-based feature localization. , 2021, , .		4
7	Fixing vulnerabilities potentially hinders maintainability. Empirical Software Engineering, 2021, 26, 1.	3.0	0
8	Patterns and Energy Consumption: Design, Implementation, Studies, and Stories. , 2021, , 89-121.		2
9	A Comparative Study of Automatic Program Repair Techniques for Security Vulnerabilities. , 2021, , .		7
10	On the Runtime and Energy Performance of WebAssembly: Is WebAssembly superior to JavaScript yet?. , 2021, , .		7
11	On Understanding Contextual Changes of Failures. , 2021, , .		1
12	Multiple fault localization of software programs: A systematic literature review. Information and Software Technology, 2020, 124, 106312.	3.0	48
13	Empirical review of automated analysis tools on 47,587 Ethereum smart contracts. , 2020, , .		147
14	Visual sketching. , 2020, , .		4
15	Empirical Study of Restarted and Flaky Builds on Travis CI. , 2020, , .		14
16	SmartBugs. , 2020, , .		51
17	Diagnosing Software Faults Using Multiverse Analysis. , 2020, , .		9
18	An Empirical Study on the Use of Defect Prediction for Test Case Prioritization. , 2019, , .		27

#	ARTICLE	IF	CITATIONS
19	Empirical review of Java program repair tools: a large-scale experiment on 2,141 bugs and 23,551 repair attempts. , 2019, , .		82
20	MOTSD: a multi-objective test selection tool using test suite diagnosability. , 2019, , .		9
21	EMaaS: Energy Measurements as a Service for Mobile Applications. , 2019, , .		5
22	Catalog of energy patterns for mobile applications. Empirical Software Engineering, 2019, 24, 2209-2235.	3.0	63
23	To the attention of mobile software developers: guess what, test your app!. Empirical Software Engineering, 2019, 24, 2438-2468.	3.0	23
24	An Analysis of 35+ Million Jobs of Travis CI. , 2019, , .		11
25	Pangolin: An SFL-Based Toolset for Feature Localization. , 2019, , .		7
26	Do Energy-Oriented Changes Hinder Maintainability?. , 2019, , .		15
27	Demystifying the Combination of Dynamic Slicing and Spectrum-based Fault Localization. , 2019, , .		10
28	Model-Based Software Debugging. , 2019, , 365-387.		0
29	GreenSoftwareLab: Towards an Engineering Discipline for Green Software. Impact, 2018, 2018, 9-11.	0.0	1
30	Lightweight source code monitoring with Triggr. , 2018, , .		1
31	A qualitative reasoning approach to spectrum-based fault localization. , 2018, , .		3
32	Measuring the energy footprint of mobile testing frameworks. , 2018, , .		5
33	Leveraging Qualitative Reasoning to Improve SFL. , 2018, , .		10
34	Empirical Evaluation of Similarity Coefficients for Multiagent Fault Localization. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2017, 47, 767-782.	5.9	2
35	Risks and Security of Internet and Systems. Lecture Notes in Computer Science, 2017, , .	1.0	1
36	Prevalence of Single-Fault Fixes and Its Impact on Fault Localization. , 2017, , .		23

#	ARTICLE	IF	CITATIONS
37	Evaluating and Improving Fault Localization. , 2017, , .		259
38	A Test-Suite Diagnosability Metric for Spectrum-Based Fault Localization Approaches. , 2017, , .		50
39	Leafactor: Improving Energy Efficiency of Android Apps via Automatic Refactoring. , 2017, , .		24
40	Performance-Based Guidelines for Energy Efficient Mobile Applications. , 2017, , .		54
41	Revisiting the Practical Use of Automated Software Fault Localization Techniques. , 2017, , .		13
42	A Database of Existing Vulnerabilities to Enable Controlled Testing Studies. International Journal of Secure Software Engineering, 2017, 8, 1-23.	0.4	3
43	The ANTAREX approach to autotuning and adaptivity for energy efficient HPC systems. , 2016, , .		22
44	Framing program comprehension as fault localization. Journal of Software: Evolution and Process, 2016, 28, 840-862.	1.2	7
45	A Survey on Software Fault Localization. IEEE Transactions on Software Engineering, 2016, 42, 707-740.	4.3	636
46	Time, Frequency & Complexity Analysis for Recognizing Panic States from Physiologic Time-Series. , 2016, , .		9
47	NARROWING THE GAP BETWEEN MUSEUMS, CLASSROOMS AND TECHNOLOGY: THE U.OPENLAB INITIATIVE PROTOTYPE. , 2016, , .		0
48	Learning Diagnosis Models Using Variable-Fidelity Component Model Libraries â... âSupported by SFI grant 12/RC/2289.. IFAC-PapersOnLine, 2015, 48, 428-433.	0.5	0
49	A wearable and mobile intervention delivery system for individuals with panic disorder. , 2015, , .		16
50	Towards a mobile and wearable system for predicting panic attacks. , 2015, , .		36
51	CodeAware: Sensor-Based Fine-Grained Monitoring and Management of Software Artifacts. , 2015, , .		4
52	Using constraints to diagnose faulty spreadsheets. Software Quality Journal, 2015, 23, 297-322.	1.4	27
53	On the empirical evaluation of similarity coefficients for spreadsheets fault localization. Automated Software Engineering, 2015, 22, 47-74.	2.2	29
54	Testing Software and Systems. Lecture Notes in Computer Science, 2015, , .	1.0	2

#	ARTICLE	IF	CITATIONS
55	Testing for Distinguishing Repair Candidates in Spreadsheets – the Mussco Approach. Lecture Notes in Computer Science, 2015, , 124-140.	1.0	3
56	Continuous Test Generation on Guava. Lecture Notes in Computer Science, 2015, , 228-234.	1.0	1
57	Continuous test generation. , 2014, , .		41
58	A diagnosis-based approach to software comprehension. , 2014, , .		18
59	Foreword of the 5th Portuguese Software Engineering Doctoral Symposium (SEDES'2014). , 2014, , .		0
60	Automatic systems diagnosis without behavioral models. , 2014, , .		1
61	FaultySheet Detective: When Smells Meet Fault Localization. , 2014, , .		12
62	Diagnosing unobserved components in self-adaptive systems. , 2014, , .		14
63	A dynamic code coverage approach to maximize fault localization efficiency. Journal of Systems and Software, 2014, 90, 18-28.	3.3	26
64	Smelling Faults in Spreadsheets. , 2014, , .		30
65	Progress in Artificial Intelligence. Lecture Notes in Computer Science, 2013, , .	1.0	6
66	Fundamental Approaches to Software Engineering. Lecture Notes in Computer Science, 2013, , .	1.0	3
67	Multicore Software Engineering, Performance, and Tools. Lecture Notes in Computer Science, 2013, , .	1.0	1
68	Diagnosing architectural run-time failures. , 2013, , .		8
69	Encoding Test Requirements as Constraints for Test Suite Minimization. , 2013, , .		5
70	Cues for scent intensification in debugging. , 2013, , .		3
71	Using HTML5 visualizations in software fault localization. , 2013, , .		42
72	Leveraging a Constraint Solver for Minimizing Test Suites. , 2013, , .		7

#	ARTICLE	IF	CITATIONS
73	Threats to the validity and value of empirical assessments of the accuracy of coverage-based fault locators. , 2013, , .		101
74	MZoltar: automatic debugging of Android applications. , 2013, , .		12
75	Entropy-based test generation for improved fault localization. , 2013, , .		46
76	Interoperability in Ambient Assisted Living using OpenEHR. , 2013, , .		2
77	Prioritizing Tests for Fault Localization. , 2013, , 247-257.		2
78	On the Empirical Evaluation of Fault Localization Techniques for Spreadsheets. Lecture Notes in Computer Science, 2013, , 68-82.	1.0	36
79	MHS2: A Map-Reduce Heuristic-Driven Minimal Hitting Set Search Algorithm. Lecture Notes in Computer Science, 2013, , 25-36.	1.0	7
80	A Distributed Approach to Diagnosis Candidate Generation. Lecture Notes in Computer Science, 2013, , 175-186.	1.0	4
81	Testing Software and Systems. Lecture Notes in Computer Science, 2013, , .	1.0	0
82	Spectrum-Based Fault Localization for Diagnosing Concurrency Faults. Lecture Notes in Computer Science, 2013, , 239-254.	1.0	11
83	GZoltar: an eclipse plug-in for testing and debugging. , 2012, , .		124
84	AI for the win. Software Engineering Notes: an Informal Newsletter of the Special Interest Committee on Software Engineering / ACM, 2012, 37, 1-8.	0.5	8
85	Debugging Spreadsheets: A CSP-based Approach. , 2012, , .		8
86	A Topology-Based Model for Estimating the Diagnostic Efficiency of Statistics-Based Approaches. , 2012, , .		4
87	Self-Healing on the Cloud: State-of-the-Art and Future Challenges. , 2012, , .		1
88	Computational Collective Intelligence. Technologies and Applications. Lecture Notes in Computer Science, 2012, , .	1.0	2
89	Integrating Interactive Visualizations of Automatic Debugging Techniques on an Integrated Development Environment. International Journal of Creative Interfaces and Computer Graphics, 2012, 3, 42-59.	0.1	2
90	OCE: An Online Colaborative Editor. Lecture Notes in Computer Science, 2012, , 89-98.	1.0	0

#	ARTICLE	IF	CITATIONS
91	Lightweight Automatic Error Detection by Monitoring Collar Variables. Lecture Notes in Computer Science, 2012, , 215-230.	1.0	2
92	Prioritizing tests for fault localization through ambiguity group reduction. , 2011, , .		40
93	Probabilistic Error Propagation Modeling in Logic Circuits. , 2011, , .		5
94	Prioritizing tests for software fault diagnosis. Software - Practice and Experience, 2011, 41, 1105-1129.	2.5	17
95	Simultaneous debugging of software faults. Journal of Systems and Software, 2011, 84, 573-586.	3.3	35
96	An OpenGL-based eclipse plug-in for visual debugging. , 2011, , .		3
97	An empirical study on the usage of testability information to fault localization in software. , 2011, , .		6
98	Architecture-Based Run-Time Fault Diagnosis. Lecture Notes in Computer Science, 2011, , 261-277.	1.0	9
99	A Diagnostic Reasoning Approach to Defect Prediction. Lecture Notes in Computer Science, 2011, , 416-425.	1.0	2
100	Diagnosing multiple intermittent failures using maximum likelihood estimation. Artificial Intelligence, 2010, 174, 1481-1497.	3.9	27
101	Increasing System Availability with Local Recovery Based on Fault Localization. , 2010, , .		2
102	PETTool: A pattern-based GUI testing tool. , 2010, , .		13
103	Exploiting count spectra for Bayesian fault localization. , 2010, , .		10
104	The GZoltar Project: A Graphical Debugger Interface. Lecture Notes in Computer Science, 2010, , 215-218.	1.0	13
105	Testing " Practice and Research Techniques. Lecture Notes in Computer Science, 2010, , .	1.0	1
106	Using Fault Screeners for Software Error Detection. Communications in Computer and Information Science, 2010, , 60-74.	0.4	3
107	Refining spectrum-based fault localization rankings. , 2009, , .		26
108	Zoltar. , 2009, , .		28

#	ARTICLE	IF	CITATIONS
109	A practical evaluation of spectrum-based fault localization. Journal of Systems and Software, 2009, 82, 1780-1792.	3.3	367
110	Spectrum-Based Multiple Fault Localization. , 2009, , .		239
111	Localizing Software Faults Simultaneously. , 2009, , .		12
112	Zoltar: A Toolset for Automatic Fault Localization. , 2009, , .		59
113	Automated Fault Diagnosis in Embedded Systems. , 2008, , .		14
114	Automatic software fault localization using generic program invariants. , 2008, , .		29
115	An observation-based model for fault localization. , 2008, , .		26
116	Diagnosis of Embedded Software Using Program Spectra. , 2007, , .		28
117	On the Accuracy of Spectrum-based Fault Localization. , 2007, , .		408
118	On the Accuracy of Spectrum-based Fault Localization. , 2007, , .		28
119	An Evaluation of Similarity Coefficients for Software Fault Localization. , 2006, , .		331
120	Improving Energy Efficiency Through Automatic Refactoring. Journal of Software Engineering Research and Development, 0, 7, 2.	1.0	5