David Clark

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5748197/publications.pdf

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51	1,029	687363 13	501196 28
papers	citations	h-index	g-index

52	52	52	589
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A static analysis for quantifying information flow in a simple imperative language. Journal of Computer Security, 2007, 15, 321-371.	0.8	124
2	Quantitative Analysis of the Leakage of Confidential Data. Electronic Notes in Theoretical Computer Science, 2002, 59, 238-251.	0.9	101
3	A comparison of code similarity analysers. Empirical Software Engineering, 2018, 23, 2464-2519.	3.9	84
4	Fault localization prioritization. ACM Transactions on Software Engineering and Methodology, 2013, 22, 1-29.	6.0	83
5	Test Set Diameter: Quantifying the Diversity of Sets of Test Cases. , 2016, , .		63
6	Quantified Interference for a While Language. Electronic Notes in Theoretical Computer Science, 2005, 112, 149-166.	0.9	52
7	Picking on the family: Disrupting android malware triage by forcing misclassification. Expert Systems With Applications, 2018, 95, 113-126.	7.6	43
8	An analysis of the relationship between conditional entropy and failed error propagation in software testing. , 2014, , .		38
9	Control Dependence for Extended Finite State Machines. Lecture Notes in Computer Science, 2009, , 216-230.	1.3	36
10	Test oracle assessment and improvement. , 2016, , .		34
11	State-based model slicing. ACM Computing Surveys, 2013, 45, 1-36.	23.0	33
12	Squeeziness: An information theoretic measure for avoiding fault masking. Information Processing Letters, 2012, 112, 335-340.	0.6	27
13	The arms race: Adversarial search defeats entropy used to detect malware. Expert Systems With Applications, 2019, 118, 246-260.	7.6	27
14	Safety and Security Analysis of Object-Oriented Models. Lecture Notes in Computer Science, 2002, , 82-93.	1.3	27
15	Similarity of Source Code in the Presence of Pervasive Modifications. , 2016, , .		23
16	Information flow for Algol-like languages. Computer Languages, Systems and Structures, 2002, 28, 3-28.	1.4	22
17	Amorphous Slicing of Extended Finite State Machines. IEEE Transactions on Software Engineering, 2013, 39, 892-909.	5.6	20
18	Model projection. , 2011, , .		19

#	Article	IF	Citations
19	An Interval-based Abstraction for Quantifying Information Flow. Electronic Notes in Theoretical Computer Science, 2009, 253, 119-141.	0.9	14
20	Quantitative Analysis of Secure Information Flow via Probabilistic Semantics. , 2009, , .		14
21	Getting Ahead of the Arms Race: Hothousing the Coevolution of VirusTotal with a Packer. Entropy, 2021, 23, 395.	2.2	11
22	Model Transformation Specification and Verification. , 2008, , .		10
23	Direct Semantics of Extended State Machines.. Journal of Object Technology, 2007, 6, 35.	0.9	10
24	Information Transformation: An Underpinning Theory for Software Engineering. , 2015, , .		9
25	An Empirical Validation of Oracle Improvement. IEEE Transactions on Software Engineering, 2021, 47, 1708-1728.	5.6	8
26	Software robustness: a survey, a theory, and prospects. , 2021, , .		8
27	A Tool: Quantitative Analyser for Programs. , 2011, , .		6
28	Normalised Squeeziness and Failed Error Propagation. Information Processing Letters, 2019, 149, 6-9.	0.6	6
29	Detecting Malware with Information Complexity. Entropy, 2020, 22, 575.	2.2	6
30	Diversifying Focused Testing for Unit Testing. ACM Transactions on Software Engineering and Methodology, 2021, 30, 1-24.	6.0	6
31	Directing a Search Towards Execution Properties with a Learned Fitness Function. , 2019, , .		5
32	Dissipative polynomials. , 2021, , .		5
33	OASIs: oracle assessment and improvement tool. , 2018, , .		4
34	Output Sampling for Output Diversity in Automatic Unit Test Generation. IEEE Transactions on Software Engineering, 2022, 48, 295-308.	5.6	4
35	Safety of Strictness Analysis via Term Graph Rewriting. Lecture Notes in Computer Science, 2000, , 95-114.	1.3	4
36	A semiring-based trace semantics for processes with applications to information leakage analysis. Mathematical Structures in Computer Science, 2015, 25, 259-291.	0.6	3

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37	Hashing Fuzzing: Introducing Input Diversity to Improve Crash Detection. IEEE Transactions on Software Engineering, 2022, 48, 3540-3553.	5.6	3
38	Dorylus: An Ant Colony Based Tool for Automated Test Case Generation. Lecture Notes in Computer Science, 2019, , 171-180.	1.3	3
39	Ant Colony Optimization for Object-Oriented Unit Test Generation. Lecture Notes in Computer Science, 2020, , 29-41.	1.3	3
40	An information theoretic notion of software testability. Information and Software Technology, 2022, 143, 106759.	4.4	3
41	HyperGI: Automated Detection and Repair of Information Flow Leakage. , 2021, , .		3
42	Some Properties of Non-Orthogonal Term Graph Rewriting. Electronic Notes in Theoretical Computer Science, 1995, 2, 36-45.	0.9	2
43	An alternative characterization of weak order dependence. Information Processing Letters, 2010, 110, 939-943.	0.6	2
44	A lattice of abstract graphs. Lecture Notes in Computer Science, 1993, , 318-331.	1.3	2
45	A Semiring-Based Trace Semantics for Processes with Applications to Information Leakage Analysis. International Federation for Information Processing, 2010, , 340-354.	0.4	2
46	Correctly Slicing Extended Finite State Machines. Lecture Notes in Computer Science, 2020, , 149-197.	1.3	1
47	Verifying Opacity Properties in Security Systems. IEEE Transactions on Dependable and Secure Computing, 2023, 20, 1450-1460.	5.4	1
48	Measuring failed disruption propagation in genetic programming. , 2022, , .		1
49	Special issue on Programming Language Interference and Dependence. The Journal of Logic and Algebraic Programming, 2007, 72, 123.	1.4	0
50	Foreword: programming language interference and dependence. Mathematical Structures in Computer Science, 2011, 21, 1109-1110.	0.6	0
51	Constructing Search Spaces for Search-Based Software Testing Using Neural Networks. Lecture Notes in Computer Science, 2019, , 27-41.	1.3	0