YliÃ¨s Falcone

List of Publications by Year
in descending order

80	1,712	346980 22	371746 37
papers	citations	h-index	g-index

87	87	87	585
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Bringing runtime verification home: a case study on the hierarchical monitoring of smart homes using decentralized specifications. International Journal on Software Tools for Technology Transfer, 2022, 24, 159-181.	1.7	1
2	On Decentralized Monitoring. Lecture Notes in Computer Science, 2022, , 1-16.	1.0	2
3	Capturing program models with BISM. , 2022, , .		2
4	A taxonomy for classifying runtime verification tools. International Journal on Software Tools for Technology Transfer, 2021, 23, 255-284.	1.7	35
5	Monitoring Distributed Component-Based Systems. Lecture Notes in Computer Science, 2021, , 153-173.	1.0	1
6	Runtime Enforcement withÂReordering, Healing, andÂSuppression. Lecture Notes in Computer Science, 2021, , 47-65.	1.0	1
7	Runtime enforcement of timed properties usinggames. Formal Aspects of Computing, 2020, 32, 315-360.	1.4	7
8	From global choreographies to verifiable efficient distributed implementations. Journal of Logical and Algebraic Methods in Programming, 2020, 115, 100577.	0.4	2
9	Preface to the special section on improving software quality through formal methods. Software Quality Journal, 2020, 28, 693-694.	1.4	0
10	BISM: Bytecode-Level Instrumentation for Software Monitoring. Lecture Notes in Computer Science, 2020, , 323-335.	1.0	6
11	On the Monitoring of Decentralized Specifications. ACM Transactions on Software Engineering and Methodology, 2020, 29, 1-57.	4.8	12
12	A survey of challenges for runtime verification from advanced application domains (beyond) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 302 T	0.9	56
13	International Competition on Runtime Verification (CRV). Lecture Notes in Computer Science, 2019, , 41-49.	1.0	1
14	First international Competition on Runtime Verification: rules, benchmarks, tools, and final results of CRV 2014. International Journal on Software Tools for Technology Transfer, 2019, 21, 31-70.	1.7	48
15	From high-level modeling toward efficient and trustworthy circuits. International Journal on Software Tools for Technology Transfer, 2019, 21, 143-163.	1.7	2
16	Optimal enforcement of (timed) properties with uncontrollable events. Mathematical Structures in Computer Science, 2019, 29, 169-214.	0.5	11
17	On the Runtime Enforcement of Timed Properties. Lecture Notes in Computer Science, 2019, , 48-69.	1.0	18
18	Detecting Fault Injection Attacks with Runtime Verification. , 2019, , .		4

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19	Introduction to Runtime Verification. Lecture Notes in Computer Science, 2018, , 1-33.	1.0	136
20	A high-level modeling language for the efficient design, implementation, and testing of Android applications. International Journal on Software Tools for Technology Transfer, 2018, 20, 1-18.	1.7	3
21	Decentralized enforcement of document lifecycle constraints. Information Systems, 2018, 74, 117-135.	2.4	13
22	Can We Monitor All Multithreaded Programs?. Lecture Notes in Computer Science, 2018, , 64-89.	1.0	8
23	Modularizing behavioral and architectural crosscutting concerns in formal component-based systems â€“ Application to the Behavior Interaction Priority framework. Journal of Logical and Algebraic Methods in Programming, 2018, 99, 143-177.	0.4	4
24	Introduction to the special issue on runtime verification. Formal Methods in System Design, 2018, 53, 1-5.	0.9	1
25	A Taxonomy for Classifying Runtime Verification Tools. Lecture Notes in Computer Science, 2018, , 241-262.	1.0	37
26	Tracing Distributed Component-Based Systems, a Brief Overview. Lecture Notes in Computer Science, 2018, , 417-425.	1.0	3
27	Second School on Runtime Verification, as Part of the ArVi COST Action 1402. Lecture Notes in Computer Science, 2018, , 27-32.	1.0	2
28	Runtime Failure Prevention and Reaction. Lecture Notes in Computer Science, 2018, , 103-134.	1.0	36
29	RV-TheToP: Runtime Verification from Theory to the Industry Practice (Track Introduction). Lecture Notes in Computer Science, 2018, , 3-8.	1.0	0
30	COST Action IC1402 Runtime Verification Beyond Monitoring. Lecture Notes in Computer Science, 2018, , 18-26.	1.0	1
31	Fully automated runtime enforcement of component-based systems with formal and sound recovery. International Journal on Software Tools for Technology Transfer, 2017, 19, 341-365.	1.7	6
32	Formal analysis and offline monitoring of electronic exams. Formal Methods in System Design, 2017, 51, 117-153.	0.9	4
33	THEMIS: a tool for decentralized monitoring algorithms. , 2017, , .		12
34	Monitoring decentralized specifications. , 2017, , .		21
35	Concurrency-preserving and sound monitoring of multi-threaded component-based systems: theory, algorithms, implementation, and evaluation. Formal Aspects of Computing, 2017, 29, 951-986.	1.4	5
36	Predictive runtime enforcement. Formal Methods in System Design, 2017, 51, 154-199.	0.9	16

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37	Predictive runtime verification of timed properties. Journal of Systems and Software, 2017, 132, 353-365.	3.3	38
38	Interactive Runtime Verification — When Interactive Debugging Meets Runtime Verification. , 2017, , .		5
39	Runtime enforcement using BÃ¼chi games. , 2017, , .		9
40	Verifying Policy Enforcers. Lecture Notes in Computer Science, 2017, , 241-258.	1.0	12
41	GREP: Games for the Runtime Enforcement of Properties. Lecture Notes in Computer Science, 2017, , 259-275.	1.0	4
42	Decentralized Enforcement of Artifact Lifecycles. , 2016, , .		3
43	Runtime enforcement of regular timed properties by suppressing and delaying events. Science of Computer Programming, 2016, 123, 2-41.	1.5	17
44	Decentralised LTL monitoring. Formal Methods in System Design, 2016, 48, 46-93.	0.9	46
45	Organising LTL monitors over distributed systems with a global clock. Formal Methods in System Design, 2016, 49, 109-158.	0.9	34
46	Monitoring Multi-threaded Component-Based Systems. Lecture Notes in Computer Science, 2016, , 141-159.	1.0	6
47	Third International Competition on Runtime Verification. Lecture Notes in Computer Science, 2016, , 21-37.	1.0	19
48	Predictive runtime enforcement. , 2016, , .		7
49	Dynamic Detection and Mitigation of DMA Races in MPSoCs. , 2015, , .		1
50	Enforcement and validation (at runtime) of various notions of opacity. Discrete Event Dynamic Systems: Theory and Applications, 2015, 25, 531-570.	0.6	68
51	Runtime verification: the application perspective. International Journal on Software Tools for Technology Transfer, 2015, 17, 121-123.	1.7	3
52	Runtime verification of component-based systems in the BIP framework with formally-proved sound and complete instrumentation. Software and Systems Modeling, 2015, 14, 173-199.	2.2	36
53	Runtime enforcement for component-based systems. , 2015, , .		6
54	TiPEX: A Tool Chain for Timed Property Enforcement During eXecution. Lecture Notes in Computer Science, 2015, , 306-320.	1.0	9

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55	RV-Android: Efficient Parametric Android Runtime Verification, a Brief Tutorial. Lecture Notes in Computer Science, 2015, , 342-357.	1.0	17
56	Second International Competition on Runtime Verification. Lecture Notes in Computer Science, 2015, , 405-422.	1.0	18
57	Monitoring Electronic Exams. Lecture Notes in Computer Science, 2015, , 118-135.	1.0	7
58	Enforcement of (Timed) Properties with Uncontrollable Events. Lecture Notes in Computer Science, 2015, , 542-560.	1.0	17
59	Runtime enforcement of timed properties revisited. Formal Methods in System Design, 2014, 45, 381-422.	0.9	31
60	Runtime enforcement of regular timed properties. , 2014, , .		8
61	Runtime Enforcement of Parametric Timed Properties with Practical Applications. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 420-427.	0.4	8
62	First International Competition on Software for Runtime Verification. Lecture Notes in Computer Science, 2014, , 1-9.	1.0	30
63	Efficient and Generalized Decentralized Monitoring of Regular Languages. Lecture Notes in Computer Science, 2014, , 66-83.	1.0	29
64	Blocking Advertisements on Android Devices Using Monitoring Techniques. Lecture Notes in Computer Science, 2014, , 239-253.	1.0	7
65	Fault localization in embedded software based on a single cyclic trace. , 2013, , .		4
66	Runtime enforcement of K-step opacity. , 2013, , .		19
67	Runtime Verification and Enforcement for Android Applications with RV-Droid. Lecture Notes in Computer Science, 2013, , 88-95.	1.0	26
68	Runtime Enforcement of Timed Properties. Lecture Notes in Computer Science, 2013, , 229-244.	1.0	14
69	Runtime Verification: The Application Perspective. Lecture Notes in Computer Science, 2012, , 284-291.	1.0	3
70	Weave droid: aspect-oriented programming on Android devices: fully embedded or in the cloud. , 2012, , .		11
71	What can you verify and enforce at runtime?. International Journal on Software Tools for Technology Transfer, 2012, 14, 349-382.	1.7	119
72	More testable properties. International Journal on Software Tools for Technology Transfer, 2012, 14, 407-437.	1.7	6

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73	Quantified Event Automata: Towards Expressive and Efficient Runtime Monitors. Lecture Notes in Computer Science, 2012, , 68-84.	1.0	111
74	Towards Certified Runtime Verification. Lecture Notes in Computer Science, 2012, , 494-509.	1.0	21
75	Runtime enforcement monitors: composition, synthesis, and enforcement abilities. Formal Methods in System Design, 2011, 38, 223-262.	0.9	93
76	You Should Better Enforce Than Verify. Lecture Notes in Computer Science, 2010, , 89-105.	1.0	51
77	Runtime Verification of Safety-Progress Properties. Lecture Notes in Computer Science, 2009, , 40-59.	1.0	65
78	j-POST: a Java Toolchain for Property-Oriented Software Testing. Electronic Notes in Theoretical Computer Science, 2008, 220, 29-41.	0.9	6
79	Synthesizing Enforcement Monitors wrt. the Safety-Progress Classification of Properties. Lecture Notes in Computer Science, 2008, , 41-55.	1.0	16
80	Decentralized LTL Enforcement. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 346, 135-151.	0.8	2