

Roberto Segala

List of Publications by Year in descending order

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43
papers

1,662
citations

331259

21
h-index

301761

39
g-index

47
all docs

47
docs citations

47
times ranked

676
citing authors

#	ARTICLE	IF	CITATIONS
1	Hybrid I/O automata. Information and Computation, 2003, 185, 105-157.	0.5	305
2	Automatic verification of real-time systems with discrete probability distributions. Theoretical Computer Science, 2002, 282, 101-150.	0.5	254
3	Hybrid I/O automata. Lecture Notes in Computer Science, 1996, , 496-510.	1.0	136
4	A compositional trace-based semantics for probabilistic automata. Lecture Notes in Computer Science, 1995, , 234-248.	1.0	66
5	Symbolic Model Checking of Probabilistic Processes Using MTBDDs and the Kronecker Representation. Lecture Notes in Computer Science, 2000, , 395-410.	1.0	64
6	The Theory of Timed I/O Automata. Synthesis Lectures on Computer Science, 2006, 1, 1-114.	0.3	57
7	Probabilistic Logical Characterization. Information and Computation, 2011, 209, 154-172.	0.5	50
8	Verification of the randomized consensus algorithm of Aspnes and Herlihy: a case study. Distributed Computing, 2000, 13, 155-186.	0.7	47
9	Hybrid I/O Automata Revisited. Lecture Notes in Computer Science, 2001, , 403-417.	1.0	47
10	Testing probabilistic automata. Lecture Notes in Computer Science, 1996, , 299-314.	1.0	46
11	Switched PIOA: Parallel composition via distributed scheduling. Theoretical Computer Science, 2006, 365, 83-108.	0.5	45
12	Liveness in timed and untimed systems. Lecture Notes in Computer Science, 1994, , 166-177.	1.0	45
13	Proving time bounds for randomized distributed algorithms. , 1994, , .		43
14	Observing Branching Structure through Probabilistic Contexts. SIAM Journal on Computing, 2007, 37, 977-1013.	0.8	39
15	Automated Verification of a Randomized Distributed Consensus Protocol Using Cadence SMV and PRISM?. Lecture Notes in Computer Science, 2001, , 194-206.	1.0	36
16	Liveness in Timed and Untimed Systems. Information and Computation, 1998, 141, 119-171.	0.5	35
17	Time-Bounded Task-PIOAs: A Framework for Analyzing Security Protocols. Lecture Notes in Computer Science, 2006, , 238-253.	1.0	34
18	A process algebraic view of input/output automata. Theoretical Computer Science, 1995, 138, 391-423.	0.5	33

#	ARTICLE	IF	CITATIONS
19	Analyzing Security Protocols Using Time-Bounded Task-PIOAs. Discrete Event Dynamic Systems: Theory and Applications, 2008, 18, 111-159.	0.6	32
20	Compositionality for Probabilistic Automata. Lecture Notes in Computer Science, 2003, , 208-221.	1.0	32
21	Probability and Nondeterminism in Operational Models of Concurrency. Lecture Notes in Computer Science, 2006, , 64-78.	1.0	30
22	Stochastic Transition Systems for Continuous State Spaces and Non-determinism. Lecture Notes in Computer Science, 2005, , 125-139.	1.0	26
23	The Theory of Timed I/O Automata, Second Edition. Synthesis Lectures on Distributed Computing Theory, 2010, 1, 1-137.	0.1	19
24	Quiescence, Fairness, Testing, and the Notion of Implementation. Information and Computation, 1997, 138, 194-210.	0.5	16
25	Quiescence, fairness, testing, and the notion of implementation. Lecture Notes in Computer Science, 1993, , 324-338.	1.0	15
26	System support for partition-aware network applications. Operating Systems Review (ACM), 1998, 32, 41-56.	1.5	13
27	Dynamic load balancing with group communication. Theoretical Computer Science, 2006, 369, 348-360.	0.5	13
28	Approximated Computationally Bounded Simulation Relations for Probabilistic Automata. Computer Security Foundations Workshop (CSFW), Proceedings of the IEEE, 2007, , .	0.0	13
29	Task-structured probabilistic I/O automata. Journal of Computer and System Sciences, 2018, 94, 63-97.	0.9	11
30	Distributed collision avoidance for autonomous vehicles: world automata representation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 216-221.	0.4	8
31	A comparison of simulation techniques and algebraic techniques for verifying concurrent systems. Formal Aspects of Computing, 1995, 7, 231-265.	1.4	7
32	Verification of the randomized consensus algorithm of Aspnes and Herlihy: A case study. Lecture Notes in Computer Science, 1997, , 22-36.	1.0	7
33	A quantitative doxastic logic for probabilistic processes and applications to information-hiding. Journal of Applied Non-Classical Logics, 2009, 19, 489-516.	0.4	5
34	Verification of Randomized Distributed Algorithms. Lecture Notes in Computer Science, 2001, , 232-260.	1.0	5
35	A computable and compositional semantics for hybrid automata. , 2020, , .		5
36	The Essence of Coin Lemmas. Electronic Notes in Theoretical Computer Science, 1999, 22, 188-207.	0.9	3

#	ARTICLE	IF	CITATIONS
37	The power of simulation relations. , 2008, , .		2
38	Modelling Implicit Communication in Multi-Agent Systems with Hybrid Input/Output Automata. Electronic Proceedings in Theoretical Computer Science, EPTCS, 2012, 96, 1-14.	0.8	2
39	Coin Lemmas with Random Variables. Lecture Notes in Computer Science, 2001, , 71-86.	1.0	2
40	World Automata: a compositional approach to model implicit communication in hierarchical Hybrid Systems. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 124, 58-72.	0.8	2
41	Reasoning about Probabilistic Security Using Task-PIOAs. Lecture Notes in Computer Science, 2010, , 2-22.	1.0	1
42	Conditional Automata: A Tool for Safe Removal of Negligible Events. Lecture Notes in Computer Science, 2010, , 539-553.	1.0	0
43	Random Measurable Selections. Lecture Notes in Computer Science, 2014, , 343-362.	1.0	0