Roberto Segala

List of Publications by Year
in descending order

43 papers	1,662 citations	331538 21 h-index	302012 39 g-index
47 all docs	47 docs citations	47 times ranked	676 citing authors

#	Article	IF	Citations
1	A computable and compositional semantics for hybrid automata. , 2020, , .		5
2	Task-structured probabilistic I/O automata. Journal of Computer and System Sciences, 2018, 94, 63-97.	0.9	11
3	Random Measurable Selections. Lecture Notes in Computer Science, 2014, , 343-362.	1.0	0
4	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
5	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
6	Probabilistic Logical Characterization. Information and Computation, 2011, 209, 154-172.	0.5	50
7	The Theory of Timed I/O Automata, Second Edition. Synthesis Lectures on Distributed Computing Theory, 2010, 1, 1-137.	0.1	19
8	Reasoning about Probabilistic Security Using Task-PIOAs. Lecture Notes in Computer Science, 2010, , 2-22.	1.0	1
9	Conditional Automata: A Tool for Safe Removal of Negligible Events. Lecture Notes in Computer Science, 2010, , 539-553.	1.0	0
10	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
11	Analyzing Security Protocols Using Time-Bounded Task-PIOAs. Discrete Event Dynamic Systems: Theory and Applications, 2008, 18, 111-159.	0.6	32
12	The power of simulation relations. , 2008, , .		2
13	Observing Branching Structure through Probabilistic Contexts. SIAM Journal on Computing, 2007, 37, 977-1013.	0.8	39
14	Approximated Computationally Bounded Simulation Relations for Probabilistic Automata. Computer Security Foundations Workshop (CSFW), Proceedings of the IEEE, 2007, , .	0.0	13
15	Switched PIOA: Parallel composition via distributed scheduling. Theoretical Computer Science, 2006, 365, 83-108.	0.5	45
16	Dynamic load balancing with group communication. Theoretical Computer Science, 2006, 369, 348-360.	0.5	13
17	Probability and Nondeterminism in Operational Models of Concurrency. Lecture Notes in Computer Science, 2006, , 64-78.	1.0	30
18	Time-Bounded Task-PIOAs: A Framework for Analyzing Security Protocols. Lecture Notes in Computer Science, 2006, , 238-253.	1.0	34

#	ARTICLE	IF	CITATIONS
19	The Theory of Timed I/O Automata. Synthesis Lectures on Computer Science, 2006, 1, 1-114.	0.3	57
20	Stochastic Transition Systems for Continuous State Spaces and Non-determinism. Lecture Notes in Computer Science, 2005, , 125-139.	1.0	26
21	Hybrid I/O automata. Information and Computation, 2003, 185, 105-157.	0.5	305
22	Compositionality for Probabilistic Automata. Lecture Notes in Computer Science, 2003, , 208-221.	1.0	32
23	Automatic verification of real-time systems with discrete probability distributions. Theoretical Computer Science, 2002, 282, 101-150.	0.5	254
24	Automated Verification of a Randomized Distributed Consensus Protocol Using Cadence SMV and PRISM?. Lecture Notes in Computer Science, 2001, , 194-206.	1.0	36
25	Verification of Randomized Distributed Algorithms. Lecture Notes in Computer Science, 2001, , 232-260.	1.0	5
26	Coin Lemmas with Random Variables. Lecture Notes in Computer Science, 2001, , 71-86.	1.0	2
27	Hybrid I/O Automata Revisited. Lecture Notes in Computer Science, 2001, , 403-417.	1.0	47
28	Verification of the randomized consensus algorithm of Aspnes and Herlihy: a case study. Distributed Computing, 2000, 13, 155-186.	0.7	47
29	Symbolic Model Checking of Probabilistic Processes Using MTBDDs and the Kronecker Representation. Lecture Notes in Computer Science, 2000, , 395-410.	1.0	64
30	The Essence of Coin Lemmas. Electronic Notes in Theoretical Computer Science, 1999, 22, 188-207.	0.9	3
31	Liveness in Timed and Untimed Systems. Information and Computation, 1998, 141, 119-171.	0.5	35
32	System support for partition-aware network applications. Operating Systems Review (ACM), 1998, 32, 41-56.	1.5	13
33	Verification of the randomized consensus algorithm of Aspnes and Herlihy: A case study. Lecture Notes in Computer Science, 1997, , 22-36.	1.0	7
34	Quiescence, Fairness, Testing, and the Notion of Implementation. Information and Computation, 1997, 138, 194-210.	0.5	16
35	Hybrid I/O automata. Lecture Notes in Computer Science, 1996, , 496-510.	1.0	136
36	Testing probabilistic automata. Lecture Notes in Computer Science, 1996, , 299-314.	1.0	46

#	Article	IF	Citations
37	A process algebraic view of input/output automata. Theoretical Computer Science, 1995, 138, 391-423.	0.5	33
38	A comparison of simulation techniques and algebraic techniques for verifying concurrent systems. Formal Aspects of Computing, 1995, 7, 231-265.	1.4	7
39	A compositional trace-based semantics for probabilistic automata. Lecture Notes in Computer Science, 1995, , 234-248.	1.0	66
40	Proving time bounds for randomized distributed algorithms. , 1994, , .		43
41	Liveness in timed and untimed systems. Lecture Notes in Computer Science, 1994, , 166-177.	1.0	45
42	Quiescence, fairness, testing, and the notion of implementation. Lecture Notes in Computer Science, 1993, , 324-338.	1.0	15
43	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