Stefano Tonetta

List of Publications by Year in descending order

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44 papers	1,102 citations	516215 16 h-index	476904 29 g-index
47 all docs	47 docs citations	47 times ranked	588 citing authors

#	Article	IF	Citations
1	The nuXmv Symbolic Model Checker. Lecture Notes in Computer Science, 2014, , 334-342.	1.0	268
2	OCRA: A tool for checking the refinement of temporal contracts. , 2013, , .		82
3	IC3 Modulo Theories via Implicit Predicate Abstraction. Lecture Notes in Computer Science, 2014, , 46-61.	1.0	64
4	Contracts-refinement proof system for component-based embedded systems. Science of Computer Programming, 2015, 97, 333-348.	1.5	54
5	â€œMore Deterministicâ€•vs. â€œSmallerâ€•BÃ¼chi Automata for Efficient LTL Model Checking. Lecture Notes in Computer Science, 2003, , 126-140.	1.0	49
6	A Property-Based Proof System for Contract-Based Design. , 2012, , .		48
7	HyComp: An SMT-Based Model Checker for Hybrid Systems. Lecture Notes in Computer Science, 2015, , 52-67.	1.0	47
8	Requirements Validation for Hybrid Systems. Lecture Notes in Computer Science, 2009, , 188-203.	1.0	40
9	Validation of requirements for hybrid systems. ACM Transactions on Software Engineering and Methodology, 2012, 21, 1-34.	4.8	38
10	Parameter synthesis with IC3. , 2013, , .		38
11	SMT-based scenario verification for hybrid systems. Formal Methods in System Design, 2013, 42, 46-66.	0.9	30
12	Infinite-state invariant checking with IC3 and predicate abstraction. Formal Methods in System Design, 2016, 49, 190-218.	0.9	28
13	Boolean Abstraction for Temporal Logic Satisfiability. Lecture Notes in Computer Science, 2007, , 532-546.	1.0	28
14	Symbolic Systems, Explicit Properties: On Hybrid Approaches for LTL Symbolic Model Checking. Lecture Notes in Computer Science, 2005, , 350-363.	1.0	24
15	Safety assessment of AltaRica models via symbolic model checking. Science of Computer Programming, 2015, 98, 464-483.	1.5	24
16	Abstract Model Checking without Computing the Abstraction. Lecture Notes in Computer Science, 2009, , 89-105.	1.0	23
17	Extending nuXmv with Timed Transition Systems and Timed Temporal Properties. Lecture Notes in Computer Science, 2019, , 376-386.	1.0	18
18	Verifying LTL Properties of Hybrid Systems with K-Liveness. Lecture Notes in Computer Science, 2014, , 424-440.	1.0	18

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19	Formalizing requirements with object models and temporal constraints. Software and Systems Modeling, 2011, 10, 147-160.	2.2	17
20	HRELTL: A temporal logic for hybrid systems. Information and Computation, 2015, 245, 54-71.	0.5	16
21	Infinite-State Liveness-to-Safety via Implicit Abstraction and Well-Founded Relations. Lecture Notes in Computer Science, 2016, , 271-291.	1.0	15
22	Symbolic Compilation of PSL. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2008, 27, 1737-1750.	1.9	14
23	Certifying Proofs for LTL Model Checking. , 2018, , .		13
24	GSTE Is Partitioned Model Checking. Lecture Notes in Computer Science, 2004, , 229-241.	1.0	13
25	Time-aware relational abstractions for hybrid systems. , 2013, , .		12
26	Formal Design of Asynchronous Fault Detection and Identification Components using Temporal Epistemic Logic. Logical Methods in Computer Science, 2015, 11, .	0.4	10
27	A Cloud-based Collaboration Platform for Model-based Design of Cyber-Physical Systems. , 2020, , .		10
28	SMT-based satisfiability of first-order LTL with event freezing functions and metric operators. Information and Computation, 2020, 272, 104502.	0.5	8
29	Assumption-Based Runtime Verification of Infinite-State Systems. Lecture Notes in Computer Science, 2021, , 207-227.	1.0	7
30	Quantifier-free encoding of invariants for hybrid systems. Formal Methods in System Design, 2014, 45, 165-188.	0.9	6
31	Requirements Refinement and Component Reuse. Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series, 2014, , 209-241.	0.5	6
32	Object Models with Temporal Constraints. , 2008, , .		4
33	Symbolic systems, explicit properties: on hybrid approaches for LTL symbolic model checking. International Journal on Software Tools for Technology Transfer, 2011, 13, 319-335.	1.7	3
34	Implicit Semi-Algebraic Abstraction for Polynomial Dynamical Systems. Lecture Notes in Computer Science, 2021, , 529-551.	1.0	3
35	Asynchronous Composition ofÂLocal Interface LTL Properties. Lecture Notes in Computer Science, 2022, , 508-526.	1.0	3
36	A Temporal Logics Approach to Contract-Based Design. , 2016, , .		2

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37	Certifying proofs for SAT-based model checking. Formal Methods in System Design, 2021, 57, 178-210.	0.9	2
38	Property-Driven Partitioning for Abstraction Refinement. , 2007, , 389-404.		2
39	Tightening the contract refinements of a system architecture. Formal Methods in System Design, 2018, 52, 88-116.	0.9	1
40	Tightening a Contract Refinement. Lecture Notes in Computer Science, 2016, , 386-402.	1.0	1
41	Extended bounded response LTL: a new safety fragment for efficient reactive synthesis. Formal Methods in System Design, 0, , 1.	0.9	1
42	Diagnosability of Fair Transition Systems. Artificial Intelligence, 2022, , 103725.	3.9	1
43	HUBCAP: A Novel Collaborative Approach to Model-Based Design ofÂCyber-Physical Systems. Lecture Notes in Networks and Systems, 2022, , 90-110.	0.5	0
44	Safe Decomposition of Startup Requirements: Verification and Synthesis. Lecture Notes in Computer Science, 2020, , 155-172.	1.0	0