Sebastian Junges

List of Publications by Citations

39 papers	716 citations	14 h-index	25 g-index
39 ext. papers	836 ext. citations	1.4 avg, IF	4.67 L-index

#	Paper	IF	Citations
39	A Storm is Coming: A Modern Probabilistic Model Checker. *Lecture Notes in Computer Science*, **2017**, 592-600	0.9	170
38	PROPhESY: A PRObabilistic ParamEter SYnthesis Tool. *Lecture Notes in Computer Science*, **2015**, 214-231	0.9	64
37	Fast Dynamic Fault Tree Analysis by Model Checking Techniques. *IEEE Transactions on Industrial Informatics*, **2018**, 14, 370-379	11.9	51
36	JANI: Quantitative Model and Tool Interaction. *Lecture Notes in Computer Science*, **2017**, 151-168	0.9	48
35	Parameter Synthesis for Markov Models: Faster Than Ever. *Lecture Notes in Computer Science*, **2016**, 50-67	0.9	48
34	Safety-Constrained Reinforcement Learning for MDPs. *Lecture Notes in Computer Science*, **2016**, 130-146	0.9	29
33	SMT-RAT: An Open Source C++ Toolbox for Strategic and Parallel SMT Solving. *Lecture Notes in Computer Science*, **2015**, 360-368	0.9	28
32	The probabilistic model checker Storm. *International Journal on Software Tools for Technology Transfer*,1	1.3	26
31	Uncovering Dynamic Fault Trees **2016**,		22
30	Safety analysis for vehicle guidance systems with dynamic fault trees. *Reliability Engineering and System Safety*, **2019**, 186, 37-50	6.3	21
29	Sequential Convex Programming for the Efficient Verification of Parametric MDPs. *Lecture Notes in Computer Science*, **2017**, 133-150	0.9	19
28	Synthesis in pMDPs: A Tale of 1001 Parameters. *Lecture Notes in Computer Science*, **2018**, 160-176	0.9	14
27	Markov Automata with Multiple Objectives. *Lecture Notes in Computer Science*, **2017**, 140-159	0.9	14
26	Multi-cost Bounded Reachability in MDP. *Lecture Notes in Computer Science*, **2018**, 320-339	0.9	14
25	Shepherding Hordes of Markov Chains. *Lecture Notes in Computer Science*, **2019**, 172-190	0.9	13
24	Counterexample-Driven Synthesis for Probabilistic Program Sketches. *Lecture Notes in Computer Science*, **2019**, 101-120	0.9	11
23	Parametric Markov chains: PCTL complexity and fraction-free Gaussian elimination. *Information and Computation*, **2020**, 272, 104504	0.8	11

#	Title		
22	**2017**,		10
21	Verification of Indefinite-Horizon POMDPs. *Lecture Notes in Computer Science*, **2020**, 288-304	0.9	10
20	Are Parametric Markov Chains Monotonic?. *Lecture Notes in Computer Science*, **2019**, 479-496	0.9	9
19	Fault trees on a diet: automated reduction by graph rewriting. *Formal Aspects of Computing*, **2017**, 29, 651-703	1.2	8
18	Enforcing Almost-Sure Reachability in POMDPs. *Lecture Notes in Computer Science*, **2021**, 602-625	0.9	8
17	Model-Based Safety Analysis for Vehicle Guidance Systems. *Lecture Notes in Computer Science*, **2017**, 3-19	0.9	7
16	PrIC3: Property Directed Reachability for MDPs. *Lecture Notes in Computer Science*, **2020**, 512-538	0.9	6
15	Fault Trees on a Diet. *Lecture Notes in Computer Science*, **2015**, 3-18	0.9	6
14	Inductive Synthesis for Probabilistic Programs Reaches New Horizons. *Lecture Notes in Computer Science*, **2021**, 191-209	0.9	6
13	One Net Fits All. *Lecture Notes in Computer Science*, **2018**, 272-293	0.9	5
12	Runtime Monitors for Markov Decision Processes. *Lecture Notes in Computer Science*, **2021**, 553-576	0.9	5
11	Finding Provably Optimal Markov Chains. *Lecture Notes in Computer Science*, **2021**, 173-190	0.9	5
10	Multi-cost Bounded Tradeoff Analysis in MDP. *Journal of Automated Reasoning*, **2020**, 64, 1483-1522	1	4
9	. *IEEE Transactions on Automatic Control*, **2021**, 66, 1040-1054	5.9	4
8	Model Checking Finite-Horizon Markov Chains with Probabilistic Inference. *Lecture Notes in Computer Science*, **2021**, 577-601	0.9	4
7	The complexity of reachability in parametric Markov decision processes. *Journal of Computer and System Sciences*, **2021**, 119, 183-210	1	4
6	Scenario-Based Verification of Uncertain MDPs. *Lecture Notes in Computer Science*, **2020**, 12078, 287-305	0.9	3
5	Gradient-Descent for Randomized Controllers Under Partial Observability. *Lecture Notes in Computer Science*, **2022**, 127-150	0.9	2

4	Formal Analysis of AI-Based Autonomy: From Modeling to Runtime Assurance. *Lecture Notes in Computer Science*, **2021**, 311-330	0.9	2
3	Counterexample-guided inductive synthesis for probabilistic systems. *Formal Aspects of Computing*, **2021**, 33, 637-667	1.2	2
2	PAYNT: A Tool for Inductive Synthesis of Probabilistic Programs. *Lecture Notes in Computer Science*, **2021**, 856-869	0.9	2
1	Markov automata with multiple objectives. *Formal Methods in System Design*,1	1.4	1