

Joost-pieter Katoen

List of Publications by Year in descending order

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302
papers

6,850
citations

79946

39
h-index

119536

62
g-index

310
all docs

310
docs citations

310
times ranked

10047
citing authors

#	ARTICLE	IF	CITATIONS
1	A Compositional Semantics of Boolean-Logic Driven Markov Processes. IEEE Transactions on Dependable and Secure Computing, 2024, 21, 701-716.	6.0	0
2	Programmatic Strategy Synthesis: Resolving Nondeterminism in Probabilistic Programs. , 2024, 8, 2792-2820.		1
3	Accurately Computing Expected Visiting Times and Stationary Distributions in Markov Chains. Lecture Notes in Computer Science, 2024, , 237-257.	1.0	0
4	Exact Bayesian Inference for Loopy Probabilistic Programs using Generating Functions. , 2024, 8, 923-953.		0
5	A Calculus for Amortized Expected Runtimes. , 2023, 7, 1957-1986.		10
6	Lower Bounds for Possibly Divergent Probabilistic Programs. , 2023, 7, 696-726.		4
7	Probabilistic Program Verification via Inductive Synthesis of Inductive Invariants. Lecture Notes in Computer Science, 2023, , 410-429.	1.0	8
8	Certificates for Probabilistic Pushdown Automata via Optimistic Value Iteration. Lecture Notes in Computer Science, 2023, , 391-409.	1.0	1
9	Search and Explore: Symbiotic Policy Synthesis in POMDPs. Lecture Notes in Computer Science, 2023, , 113-135.	1.0	3
10	A Deductive Verification Infrastructure for Probabilistic Programs. , 2023, 7, 2052-2082.		3
11	The probabilistic model checker Storm. International Journal on Software Tools for Technology Transfer, 2022, 24, 589-610.	2.1	73
12	Synthesizing optimal bias in randomized self-stabilization. Distributed Computing, 2022, 35, 37-57.	0.9	1
13	Convex Optimization for Parameter Synthesis in MDPs. IEEE Transactions on Automatic Control, 2022, 67, 6333-6348.	6.0	9
14	Gradient-Descent for Randomized Controllers Under Partial Observability. Lecture Notes in Computer Science, 2022, , 127-150.	1.0	6
15	Out of Control: Reducing Probabilistic Models by Control-State Elimination. Lecture Notes in Computer Science, 2022, , 450-472.	1.0	2
16	Foundations for Entailment Checking in Quantitative Separation Logic. Lecture Notes in Computer Science, 2022, , 57-84.	1.0	4
17	Model Checking Temporal Properties of Recursive Probabilistic Programs. Lecture Notes in Computer Science, 2022, , 449-469.	1.0	4
18	Using Z Boson Events to Study Parion-Medium Interactions in Pb-Pb Collisions. Physical Review Letters, 2022, 128, 122301.	8.0	16

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19	DFT modeling approach for operational risk assessment of railway infrastructure. International Journal on Software Tools for Technology Transfer, 2022, 24, 331-350.	2.1	8
20	Under-Approximating Expected Total Rewards in POMDPs. Lecture Notes in Computer Science, 2022, , 22-40.	1.0	5
21	Weighted programming: a programming paradigm for specifying mathematical models. , 2022, 6, 1-30.		9
22	Hospital Coding of Postoperative Ileus: A Prospective Study. Cureus, 2022, 14, e24946.	0.5	1
23	BDDs Strike Back. Lecture Notes in Computer Science, 2022, , 713-732.	1.0	5
24	Configurable Benchmarks for AC Model Checkers. Lecture Notes in Computer Science, 2022, , 338-354.	1.0	1
25	Does a Program Yield the Right Distribution?. Lecture Notes in Computer Science, 2022, , 79-101.	1.0	6
26	POMDP Controllers with Optimal Budget. Lecture Notes in Computer Science, 2022, , 107-130.	1.0	0
27	Generative Datalog with Continuous Distributions. Journal of the ACM, 2022, 69, 1-52.	2.4	1
28	Reasoning about distributed reconfigurable systems. , 2022, 6, 145-174.		2
29	Strategy Synthesis for POMDPs in Robot Planning via Game-Based Abstractions. IEEE Transactions on Automatic Control, 2021, 66, 1040-1054.	6.0	8
30	Perinatal Lead Exposure Alters Calsyntenin-2 and Calsyntenin-3 Expression in the Hippocampus and Causes Learning Deficits in Mice Post-weaning. Biological Trace Element Research, 2021, 199, 1414-1424.	3.7	9
31	Fine-Tuning the Odds in Bayesian Networks. Lecture Notes in Computer Science, 2021, , 268-283.	1.0	5
32	Inductive Synthesis for Probabilistic Programs Reaches New Horizons. Lecture Notes in Computer Science, 2021, , 191-209.	1.0	8
33	Finding Provably Optimal Markov Chains. Lecture Notes in Computer Science, 2021, , 173-190.	1.0	8
34	Synthesizing Invariant Barrier Certificates via Difference-of-Convex Programming. Lecture Notes in Computer Science, 2021, , 443-466.	1.0	4
35	Multi-objective Optimization of Long-run Average and Total Rewards. Lecture Notes in Computer Science, 2021, , 230-249.	1.0	3
36	PAYNT: A Tool for Inductive Synthesis of Probabilistic Programs. Lecture Notes in Computer Science, 2021, , 856-869.	1.0	7

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37	A pre-expectation calculus for probabilistic sensitivity. , 2021, 5, 1-28.		13
38	Scalable Reliability Analysis by Lazy Verification. Lecture Notes in Computer Science, 2021, , 180-197.	1.0	2
39	Generating Functions for Probabilistic Programs. Lecture Notes in Computer Science, 2021, , 231-248.	1.0	2
40	Counterexample-guided inductive synthesis for probabilistic systems. Formal Aspects of Computing, 2021, 33, 637-667.	2.0	4
41	Model Checking the Multi-Formalism Language FIGARO. , 2021, , .		2
42	The complexity of reachability in parametric Markov decision processes. Journal of Computer and System Sciences, 2021, 119, 183-210.	1.2	11
43	Automated Termination Analysis of Polynomial Probabilistic Programs. Lecture Notes in Computer Science, 2021, , 491-518.	1.0	18
44	Relatively complete verification of probabilistic programs: an expressive language for expectation-based reasoning. , 2021, 5, 1-30.		13
45	Latticed k -Induction with an Application to Probabilistic Programs. Lecture Notes in Computer Science, 2021, , 524-549.	1.0	13
46	Tweaking the Odds in Probabilistic Timed Automata. Lecture Notes in Computer Science, 2021, , 39-58.	1.0	1
47	The Probabilistic Termination Tool Amber. Lecture Notes in Computer Science, 2021, , 667-675.	1.0	5
48	Synergising Reliability Modelling Languages: BDMPs and Repairable DFTs. , 2021, , .		1
49	IC3 software model checking. International Journal on Software Tools for Technology Transfer, 2020, 22, 135-161.	2.1	6
50	Parametric Markov chains: PCTL complexity and fraction-free Gaussian elimination. Information and Computation, 2020, 272, 104504.	0.7	21
51	Multi-cost Bounded Tradeoff Analysis in MDP. Journal of Automated Reasoning, 2020, 64, 1483-1522.	1.4	12
52	Foreground-Background Imbalance Problem in Deep Object Detectors: A Review. , 2020, , .		17
53	Explaining Boolean-Logic Driven Markov Processes using GSPNs. , 2020, , .		4
54	Expansion of sweet taste receptor genes in grass carp (<i>Ctenopharyngodon idellus</i>) coincided with vegetarian adaptation. BMC Evolutionary Biology, 2020, 20, 25.	3.1	19

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55	Scenario-Based Verification of Uncertain MDPs. Lecture Notes in Computer Science, 2020, 12078, 287-305.	1.0	12
56	Simple Strategies in Multi-Objective MDPs. Lecture Notes in Computer Science, 2020, , 346-364.	1.0	14
57	Interpretation-Based Violation Witness Validation for C: NITWIT. Lecture Notes in Computer Science, 2020, , 40-57.	1.0	14
58	Stochastic Games with Lexicographic Reachability-Safety Objectives. Lecture Notes in Computer Science, 2020, , 398-420.	1.0	9
59	PrIC3: Property Directed Reachability for MDPs. Lecture Notes in Computer Science, 2020, , 512-538.	1.0	11
60	A Compositional Semantics for Repairable BDMPs. Lecture Notes in Computer Science, 2020, , 82-98.	1.0	5
61	Verification of Indefinite-Horizon POMDPs. Lecture Notes in Computer Science, 2020, , 288-304.	1.0	15
62	Probabilistic Model Checking of AODV. Lecture Notes in Computer Science, 2020, , 54-73.	1.0	1
63	Bayesian Inference by Symbolic Model Checking. Lecture Notes in Computer Science, 2020, , 115-133.	1.0	5
64	Termination Analysis of Probabilistic Programs with Martingales. , 2020, , 221-258.		11
65	Aiming low is harder: induction for lower bounds in probabilistic program verification. , 2020, 4, 1-28.		24
66	Weakest Preexpectation Semantics for Bayesian Inference. Lecture Notes in Computer Science, 2020, , 44-121.	1.0	2
67	On the hardness of analyzing probabilistic programs. Acta Informatica, 2019, 56, 255-285.	0.5	26
68	Quantitative separation logic: a logic for reasoning about probabilistic pointer programs. , 2019, 3, 1-29.		26
69	SMALL INFINITARY EPISTEMIC LOGICS. Review of Symbolic Logic, 2019, 12, 702-735.	1.0	1
70	Safety analysis for vehicle guidance systems with dynamic fault trees. Reliability Engineering and System Safety, 2019, 186, 37-50.	9.1	43
71	TOPSISâ€“PSO inspired non-preemptive tasks scheduling algorithm in cloud environment. Cluster Computing, 2019, 22, 1379-1396.	5.2	33
72	Innovative Citizenâ€™s Services through Public Cloud in Pakistan: Userâ€™s Privacy Concerns and Impacts on Adoption. Mobile Networks and Applications, 2019, 24, 47-68.	3.4	19

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73	Shepherding Hordes of Markov Chains. Lecture Notes in Computer Science, 2019, , 172-190.	1.0	19
74	A DFT Modeling Approach for Infrastructure Reliability Analysis of Railway Station Areas. Lecture Notes in Computer Science, 2019, , 40-58.	1.0	5
75	Counterexample-Driven Synthesis for Probabilistic Program Sketches. Lecture Notes in Computer Science, 2019, , 101-120.	1.0	16
76	Model Repair Revamped. Lecture Notes in Computer Science, 2019, , 107-125.	1.0	5
77	Are Parametric Markov Chains Monotonic?. Lecture Notes in Computer Science, 2019, , 479-496.	1.0	12
78	The 10,000 Facets of MDP Model Checking. Lecture Notes in Computer Science, 2019, , 420-451.	1.0	13
79	Conditioning in Probabilistic Programming. ACM Transactions on Programming Languages and Systems, 2018, 40, 1-50.	2.2	25
80	Fast Dynamic Fault Tree Analysis by Model Checking Techniques. IEEE Transactions on Industrial Informatics, 2018, 14, 370-379.	12.1	78
81	Greenhouse gas emissions from boreal inland waters unchanged after forest harvesting. Biogeosciences, 2018, 15, 5575-5594.	3.4	16
82	Pressure tuning of charge ordering in iron oxide. Nature Communications, 2018, 9, 4142.	13.2	28
83	A new proof rule for almost-sure termination. , 2018, 2, 1-28.		53
84	Multi-cost Bounded Reachability in MDP. Lecture Notes in Computer Science, 2018, , 320-339.	1.0	18
85	How long, O Bayesian network, will I sample thee?. Lecture Notes in Computer Science, 2018, , 186-213.	1.0	13
86	Estimation of the Source Apportionment of Phosphorus and Its Responses to Future Climate Changes Using Multi-Model Applications. Water (Switzerland), 2018, 10, 468.	2.8	3
87	One Net Fits All. Lecture Notes in Computer Science, 2018, , 272-293.	1.0	9
88	Synthesis in pMDPs: A Tale of 1001 Parameters. Lecture Notes in Computer Science, 2018, , 160-176.	1.0	24
89	Improving Generalization in Software IC3. Lecture Notes in Computer Science, 2018, , 85-102.	1.0	4
90	Let this Graph Be Your Witness!. Lecture Notes in Computer Science, 2018, , 3-11.	1.0	3

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91	Sound Value Iteration. Lecture Notes in Computer Science, 2018, , 643-661.	1.0	35
92	Monitoring CTMCs by Multi-clock Timed Automata. Lecture Notes in Computer Science, 2018, , 507-526.	1.0	5
93	Parameter-Independent Strategies for pMDPs via POMDPs. Lecture Notes in Computer Science, 2018, , 53-70.	1.0	8
94	Probabilistic Model Checking for Uncertain Scenario-Aware Data Flow. ACM Transactions on Design Automation of Electronic Systems, 2017, 22, 1-27.	2.7	4
95	Quantitative model-checking of controlled discrete-time Markov processes. Information and Computation, 2017, 253, 1-35.	0.7	18
96	Sequential Convex Programming for the Efficient Verification of Parametric MDPs. Lecture Notes in Computer Science, 2017, , 133-150.	1.0	22
97	Fault trees on a diet: automated reduction by graph rewriting. Formal Aspects of Computing, 2017, 29, 651-703.	2.0	10
98	Modal Stochastic Games. Lecture Notes in Computer Science, 2017, , 426-445.	1.0	1
99	A weakest pre-expectation semantics for mixed-sign expectations. , 2017, , .		14
100	Motion planning under partial observability using game-based abstraction. , 2017, , .		13
101	Automated Fine Tuning of Probabilistic Self-Stabilizing Algorithms. , 2017, , .		7
102	Comparison of four molecular approaches to identify Candida parapsilosis complex species. Memorias Do Instituto Oswaldo Cruz, 2017, 112, 214-219.	1.7	3
103	Synthesis and Verification of Self-aware Computing Systems. , 2017, , 337-373.		23
104	Markov Automata with Multiple Objectives. Lecture Notes in Computer Science, 2017, , 140-159.	1.0	17
105	A Storm is Coming: A Modern Probabilistic Model Checker. Lecture Notes in Computer Science, 2017, , 592-600.	1.0	255
106	Model-Based Safety Analysis for Vehicle Guidance Systems. Lecture Notes in Computer Science, 2017, , 3-19.	1.0	9
107	Boosting Fault Tree Analysis by Formal Methods. Lecture Notes in Computer Science, 2017, , 368-389.	1.0	5
108	Formal Methods for Aerospace Systems. , 2017, , 133-159.		10

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109	The Probabilistic Model Checking Landscape. , 2016, , .		98
110	Reasoning about Recursive Probabilistic Programs. , 2016, , .		57
111	Uncovering Dynamic Fault Trees. , 2016, , .		29
112	Model-Checking Assisted Protocol Design for Ultra-reliable Low-Latency Wireless Networks. , 2016, , .		9
113	Advancing Dynamic Fault Tree Analysis - Get Succinct State Spaces Fast and Synthesise Failure Rates. Lecture Notes in Computer Science, 2016, , 253-265.	1.0	13
114	Extraction and isolation of ganoderic acid $\hat{\text{I}}\text{\textcircled{X}}$ from Ganoderma lucidum. Tetrahedron Letters, 2016, 57, 5368-5371.	1.4	8
115	Confluence reduction for Markov automata. Theoretical Computer Science, 2016, 655, 193-219.	0.9	8
116	Efficient GPU algorithms for parallel decomposition of graphs into strongly connected and maximal end components. Formal Methods in System Design, 2016, 48, 274-300.	0.8	29
117	Inferring Covariances for Probabilistic Programs. Lecture Notes in Computer Science, 2016, , 191-206.	1.0	6
118	Parameter Synthesis for Markov Models: Faster Than Ever. Lecture Notes in Computer Science, 2016, , 50-67.	1.0	61
119	Bounded Model Checking for Probabilistic Programs. Lecture Notes in Computer Science, 2016, , 68-85.	1.0	19
120	Weakest Precondition Reasoning for Expected Runâ€‘Times of Probabilistic Programs. Lecture Notes in Computer Science, 2016, , 364-389.	1.0	69
121	Safety-Constrained Reinforcement Learning for MDPs. Lecture Notes in Computer Science, 2016, , 130-146.	1.0	47
122	Performance Evaluation of Concurrent Data Structures. Lecture Notes in Computer Science, 2016, , 38-49.	1.0	2
123	Conditioning in Probabilistic Programming. Electronic Notes in Theoretical Computer Science, 2015, 319, 199-216.	0.9	9
124	Amplitude analysis of $B^0 \rightarrow D^0 K^0$ decays. Physical Review D, 2015, 92, .	4.8	32
125	Juggernaut: using graph grammars for abstracting unbounded heap structures. Formal Methods in System Design, 2015, 47, 159-203.	0.8	3
126	Search for direct pair production of a chargino and a neutralino decaying to the 125 GeV Higgs boson in $\sqrt{s} = 8 \text{ TeV}$ pp collisions with the ATLAS detector. European Physical Journal C, 2015, 75, 208.	4.0	68

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127	Cross-training in birds: cold and exercise training produce similar changes in maximal metabolic output, muscle masses and myostatin expression in house sparrows, <i>Passer domesticus</i> . Journal of Experimental Biology, 2015, 218, 2190-200.	1.7	38
128	A Statistical Approach for Timed Reachability in AADL Models. , 2015, , .		7
129	Probabilistic Programming: A True Verification Challenge. Lecture Notes in Computer Science, 2015, , 1-3.	1.0	1
130	Understanding Probabilistic Programs. Lecture Notes in Computer Science, 2015, , 15-32.	1.0	13
131	Verifying pointer programs using graph grammars. Science of Computer Programming, 2015, 97, 157-162.	2.0	3
132	Modelling and statistical model checking of a microgrid. International Journal on Software Tools for Technology Transfer, 2015, 17, 537-554.	2.1	2
133	A Greedy Approach for the Efficient Repair of Stochastic Models. Lecture Notes in Computer Science, 2015, , 295-309.	1.0	34
134	Model Checking of Open Interval Markov Chains. Lecture Notes in Computer Science, 2015, , 30-42.	1.0	10
135	Counterexamples for Expected Rewards. Lecture Notes in Computer Science, 2015, , 435-452.	1.0	4
136	PROPhESY: A PRObabilistic ParamETER SYNthesis Tool. Lecture Notes in Computer Science, 2015, , 214-231.	1.0	79
137	Multi-objective Parameter Synthesis in Probabilistic Hybrid Systems. Lecture Notes in Computer Science, 2015, , 93-107.	1.0	6
138	Fault Trees on a Diet. Lecture Notes in Computer Science, 2015, , 3-18.	1.0	9
139	On the Hardness of Almost-“Sure Termination. Lecture Notes in Computer Science, 2015, , 307-318.	1.0	32
140	Compositional Analysis Using Component-Oriented Interpolation. Lecture Notes in Computer Science, 2015, , 68-85.	1.0	0
141	Zero-reachability in probabilistic multi-counter automata. , 2014, , .		12
142	Layered Reduction for Abstract Probabilistic Automata. , 2014, , .		3
143	Exponentially timed SADF. , 2014, , .		6
144	Probably safe or live. , 2014, , .		8

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145	A multiscale approach to determine binding energy distribution on a strained surface. <i>Nanoscale</i> , 2014, 6, 4857.	5.8	0
146	Update of the Binoth Les Houches Accord for a standard interface between Monte Carlo tools and one-loop programs. <i>Computer Physics Communications</i> , 2014, 185, 560-571.	7.8	67
147	Symbolic counterexample generation for large discrete-time Markov chains. <i>Science of Computer Programming</i> , 2014, 91, 90-114.	2.0	16
148	Minimal counterexamples for linear-time probabilistic verification. <i>Theoretical Computer Science</i> , 2014, 549, 61-100.	0.9	21
149	Spacecraft early design validation using formal methods. <i>Reliability Engineering and System Safety</i> , 2014, 132, 20-35.	9.1	54
150	Operational versus weakest pre-expectation semantics for the probabilistic guarded command language. <i>Performance Evaluation</i> , 2014, 73, 110-132.	1.3	49
151	Counterexample Generation for Discrete-Time Markov Models: An Introductory Survey. <i>Lecture Notes in Computer Science</i> , 2014, , 65-121.	1.0	32
152	Layered Reduction for Modal Specification Theories. <i>Lecture Notes in Computer Science</i> , 2014, , 329-347.	1.0	2
153	GPU-Based Graph Decomposition into Strongly Connected and Maximal End Components. <i>Lecture Notes in Computer Science</i> , 2014, , 310-326.	1.0	13
154	Accelerating Parametric Probabilistic Verification. <i>Lecture Notes in Computer Science</i> , 2014, , 404-420.	1.0	40
155	Fast Debugging of PRISM Models. <i>Lecture Notes in Computer Science</i> , 2014, , 146-162.	1.0	19
156	Tight Game Abstractions of Probabilistic Automata. <i>Lecture Notes in Computer Science</i> , 2014, , 576-591.	1.0	1
157	Parametric LTL on Markov Chains. <i>Lecture Notes in Computer Science</i> , 2014, , 207-221.	1.0	4
158	Performance Analysis of Computing Servers – A Case Study Exploiting a New GSPN Semantics. <i>Lecture Notes in Computer Science</i> , 2014, , 57-72.	1.0	1
159	A compositional modelling and analysis framework for stochastic hybrid systems. <i>Formal Methods in System Design</i> , 2013, 43, 191-232.	0.8	101
160	Abstract Probabilistic Automata. <i>Information and Computation</i> , 2013, 232, 66-116.	0.7	16
161	Quantitative automata-based controller synthesis for non-autonomous stochastic hybrid systems. , 2013, , .		36
162	Model-Based Energy Optimization of Automotive Control Systems. , 2013, , .		5

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163	SMT-Based Bisimulation Minimisation of Markov Models. Lecture Notes in Computer Science, 2013, , 28-47.	1.0	17
164	A Semantics for Every GSPN. Lecture Notes in Computer Science, 2013, , 90-109.	1.0	48
165	Prinsysâ€™ On a Quest for Probabilistic Loop Invariants. Lecture Notes in Computer Science, 2013, , 193-208.	1.0	20
166	High-Level Counterexamples for Probabilistic Automata. Lecture Notes in Computer Science, 2013, , 39-54.	1.0	16
167	Modelling, Reduction and Analysis of Markov Automata. Lecture Notes in Computer Science, 2013, , 55-71.	1.0	31
168	Concurrency Meets Probability: Theory and Practice. Lecture Notes in Computer Science, 2013, , 44-45.	1.0	0
169	Symbolic Counterexample Generation for Discrete-Time Markov Chains. Lecture Notes in Computer Science, 2013, , 134-151.	1.0	5
170	Robust PCTL model checking. , 2012, , .		19
171	Model checking of Scenario-Aware Dataflow with CADP. , 2012, , .		10
172	Operational Versus Weakest Precondition Semantics for the Probabilistic Guarded Command Language. , 2012, , .		5
173	Formal correctness, safety, dependability, and performance analysis of a satellite. , 2012, , .		45
174	GSPNs Revisited: Simple Semantics and New Analysis Algorithms. , 2012, , .		11
175	Layered reasoning for randomized distributed algorithms. Formal Aspects of Computing, 2012, 24, 477-496.	2.0	7
176	A linear process-algebraic format with data for probabilistic automata. Theoretical Computer Science, 2012, 413, 36-57.	0.9	12
177	Three-valued abstraction for probabilistic systems. The Journal of Logic and Algebraic Programming, 2012, 81, 356-389.	1.7	29
178	Minimal Critical Subsystems for Discrete-Time Markov Models. Lecture Notes in Computer Science, 2012, , 299-314.	1.0	29
179	Quantitative Timed Analysis of Interactive Markov Chains. Lecture Notes in Computer Science, 2012, , 8-23.	1.0	35
180	Weighted Lumpability on Markov Chains. Lecture Notes in Computer Science, 2012, , 322-339.	1.0	13

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181	Efficient Modelling and Generation of Markov Automata. Lecture Notes in Computer Science, 2012, , 364-379.	1.0	32
182	The COMICS Tool – Computing Minimal Counterexamples for DTMCs. Lecture Notes in Computer Science, 2012, , 349-353.	1.0	12
183	Compositional Abstraction Techniques for Probabilistic Automata. Lecture Notes in Computer Science, 2012, , 325-341.	1.0	8
184	Quantitative Modelling and Analysis. Lecture Notes in Computer Science, 2012, , 290-292.	1.0	0
185	Model Checking: One Can Do Much More Than You Think!. Lecture Notes in Computer Science, 2012, , 1-14.	1.0	3
186	New Results on Abstract Probabilistic Automata. , 2011, , .		17
187	Safety, Dependability and Performance Analysis of Extended AADL Models. Computer Journal, 2011, 54, 754-775.	2.3	172
188	Abstract Probabilistic Automata. Lecture Notes in Computer Science, 2011, , 324-339.	1.0	24
189	The ins and outs of the probabilistic model checker MRMC. Performance Evaluation, 2011, 68, 90-104.	1.3	175
190	Time-bounded reachability in tree-structured QBDs by abstraction. Performance Evaluation, 2011, 68, 105-125.	1.3	6
191	Quantitative automata model checking of autonomous stochastic hybrid systems. , 2011, , .		25
192	Reachability probabilities in Markovian Timed Automata. , 2011, , .		6
193	Efficient CTMC Model Checking of Linear Real-Time Objectives. Lecture Notes in Computer Science, 2011, , 128-142.	1.0	24
194	A Local Greibach Normal Form for Hyperedge Replacement Grammars. Lecture Notes in Computer Science, 2011, , 323-335.	1.0	10
195	Analysing and Improving Energy Efficiency of Distributed Slotted Aloha. Lecture Notes in Computer Science, 2011, , 197-208.	1.0	4
196	Hierarchical Counterexamples for Discrete-Time Markov Chains. Lecture Notes in Computer Science, 2011, , 443-452.	1.0	18
197	SMA – The Smyle Modeling Approach. Lecture Notes in Computer Science, 2011, , 103-117.	1.0	1
198	Observing Continuous-Time MDPs by 1-Clock Timed Automata. Lecture Notes in Computer Science, 2011, , 2-25.	1.0	7

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199	Towards Trustworthy Aerospace Systems: An Experience Report. Lecture Notes in Computer Science, 2011, , 1-4.	1.0	2
200	Performance evaluation and model checking join forces. Communications of the ACM, 2010, 53, 76-85.	6.5	64
201	Performability assessment by model checking of Markov reward models. Formal Methods in System Design, 2010, 36, 1-36.	0.8	23
202	Computing Optimal Schedules of Battery Usage in Embedded Systems. IEEE Transactions on Industrial Informatics, 2010, 6, 276-286.	12.1	31
203	Approximate Model Checking of Stochastic Hybrid Systems. European Journal of Control, 2010, 16, 624-641.	2.7	141
204	Learning Communicating Automata from MSCs. IEEE Transactions on Software Engineering, 2010, 36, 390-408.	5.9	16
205	DTMC Model Checking by SCC Reduction. , 2010, , .		22
206	A Linear Process-Algebraic Format for Probabilistic Systems with Data. , 2010, , .		4
207	Analyzing Energy Consumption in a Gossiping MAC Protocol. Lecture Notes in Computer Science, 2010, , 107-119.	1.0	4
208	Leader Election in Anonymous Radio Networks: Model Checking Energy Consumption. Lecture Notes in Computer Science, 2010, , 247-261.	1.0	3
209	libalf: The Automata Learning Framework. Lecture Notes in Computer Science, 2010, , 360-364.	1.0	59
210	A Model Checker for AADL. Lecture Notes in Computer Science, 2010, , 562-565.	1.0	19
211	Linear-Invariant Generation for Probabilistic Programs:. Lecture Notes in Computer Science, 2010, , 390-406.	1.0	54
212	The How and Why of Interactive Markov Chains. Lecture Notes in Computer Science, 2010, , 311-337.	1.0	28
213	Model Checking Markov Chains Using Krylov Subspace Methods: An Experience Report. Lecture Notes in Computer Science, 2010, , 115-130.	1.0	1
214	Simulation-Based CTMC Model Checking: An Empirical Evaluation. , 2009, , .		7
215	Verification and performance evaluation of aadl models. , 2009, , .		11
216	The Ins and Outs of the Probabilistic Model Checker MRMC. , 2009, , .		59

#	ARTICLE	IF	CITATIONS
217	Time-Bounded Reachability in Tree-Structured QBDs by Abstraction. , 2009, , .		1
218	Codesign of dependable systems: A component-based modeling language. , 2009, , .		7
219	Quantitative Model Checking of Continuous-Time Markov Chains Against Timed Automata Specifications. , 2009, , .		38
220	Maximizing system lifetime by battery scheduling. , 2009, , .		28
221	Counterexample Generation in Probabilistic Model Checking. IEEE Transactions on Software Engineering, 2009, 35, 241-257.	5.9	86
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