

Boudewijn R Haverkort

List of Publications by Year in descending order

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119
papers

2,454
citations

361413

20
h-index

265206

42
g-index

128
all docs

128
docs citations

128
times ranked

1100
citing authors

#	ARTICLE	IF	CITATIONS
1	A Tool for Requirements Analysis of Safety-Critical Cyber-Physical Systems. Lecture Notes in Computer Science, 2020, , 242-258.	1.3	0
2	Machine Learning Data Center Workloads Using Generative Adversarial Networks. Performance Evaluation Review, 2020, 48, 21-23.	0.6	0
3	Combining Energy Saving Techniques in Data Centres using Model-Based Analysis. , 2018, , .		0
4	Evaluation of Advanced Data Centre Power Management Strategies. Electronic Notes in Theoretical Computer Science, 2018, 337, 173-191.	0.9	6
5	An integrated testbed for locally monitoring SCADA systems in smart grids. Energy Informatics, 2018, 1, .	2.3	13
6	Fitting Realistic Data Centre Workloads. , 2018, , .		2
7	Mastering operational limitations of LEO satellites – The GomX-3 approach. Acta Astronautica, 2018, 151, 726-735.	3.2	11
8	Designing Cyber-Physical Systems with aDSL: a Domain-Specific Language and Tool Support. , 2018, , .		5
9	A Domain-Specific Language and Toolchain for Performance Evaluation Based on Measurements. Lecture Notes in Computer Science, 2018, , 295-301.	1.3	1
10	A Tool for Generating Automata of IEC60870-5-104 Implementations. Lecture Notes in Computer Science, 2018, , 307-311.	1.3	0
11	Smart Industry: How ICT Will Change the Game!. IEEE Internet Computing, 2017, 21, 8-10.	3.3	54
12	Battery Aging, Battery Charging and the Kinetic Battery Model: A First Exploration. Lecture Notes in Computer Science, 2017, , 88-103.	1.3	7
13	Specification of Data Centre Power Management Strategies. , 2017, , .		3
14	Context-aware local Intrusion Detection in SCADA systems: A testbed and two showcases. , 2017, , .		10
15	iDSL: Automated Performance Evaluation of Service-Oriented Systems. Lecture Notes in Computer Science, 2017, , 214-236.	1.3	4
16	Does Your Domestic Photovoltaic Energy System Survive Grid Outages?. Energies, 2016, 9, 736.	3.1	16
17	What's under the hood? Improving SCADA security with process awareness. , 2016, , .		13
18	Assessing the cost of energy independence. , 2016, , .		6

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19	Fitting a code-red virus spread model: An account of putting theory into practice. , 2016, , .		2
20	Survivability analysis of a sewage treatment facility using hybrid Petri nets. Performance Evaluation, 2016, 97, 36-56.	1.2	12
21	Improving SCADA security of a local process with a power grid model. , 2016, , .		9
22	Efficiently Computing Latency Distributions by Combined Performance Evaluation Techniques. , 2016, , .		4
23	Development of a Smart Grid Simulation Environment. Electronic Notes in Theoretical Computer Science, 2015, 318, 19-29.	0.9	4
24	On hypothesis testing for statistical model checking. International Journal on Software Tools for Technology Transfer, 2015, 17, 377-395.	1.9	21
25	Energy Resilience Modelling for Smart Houses. , 2015, , .		21
26	Survivability Evaluation of Gas, Water and Electricity Infrastructures. Electronic Notes in Theoretical Computer Science, 2015, 310, 5-25.	0.9	17
27	Stochastic Petri Net Models for the Analysis of Trade-Offs in Data Centres with Power Management. Lecture Notes in Computer Science, 2015, , 52-67.	1.3	4
28	A Score Function for Optimizing the Cycle-Life of Battery-Powered Embedded Systems. Lecture Notes in Computer Science, 2015, , 305-320.	1.3	11
29	Hybrid Petri nets with multiple stochastic transition firings. , 2015, , .		5
30	Computing Response Time Distributions Using Iterative Probabilistic Model Checking. Lecture Notes in Computer Science, 2015, , 208-224.	1.3	8
31	iDSL: Automated Performance Prediction and Analysis of Medical Imaging Systems. Lecture Notes in Computer Science, 2015, , 227-242.	1.3	8
32	Performance of LTE for Smart Grid Communications. Lecture Notes in Computer Science, 2014, , 225-239.	1.3	19
33	Analysis of a sewage treatment facility using hybrid Petri nets. , 2014, , .		7
34	Fluid Survival Tool: A Model Checker for Hybrid Petri Nets. Lecture Notes in Computer Science, 2014, , 255-259.	1.3	6
35	Survivability Evaluation of Fluid Critical Infrastructures Using Hybrid Petri Nets. , 2013, , .		16
36	Model checking for performability. Mathematical Structures in Computer Science, 2013, 23, 751-795.	0.6	22

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37	The Dependable Systems-of-Systems Design Challenge. IEEE Security and Privacy, 2013, 11, 62-65.	1.2	1
38	A logic for model-checking mean-field models. , 2013, , .		13
39	Automated Rare Event Simulation for Stochastic Petri Nets. Lecture Notes in Computer Science, 2013, , 372-388.	1.3	11
40	Performance Evaluation for Collision Prevention Based on a Domain Specific Language. Lecture Notes in Computer Science, 2013, , 276-287.	1.3	9
41	Rare event simulation for highly dependable systems with fast repairs. Performance Evaluation, 2012, 69, 336-355.	1.2	8
42	Region-Based Analysis of Hybrid Petri Nets with a Single General One-Shot Transition. Lecture Notes in Computer Science, 2012, , 139-154.	1.3	15
43	Simulative and Analytical Evaluation for ASD-Based Embedded Software. Lecture Notes in Computer Science, 2012, , 166-181.	1.3	1
44	Lifetime Improvement by Battery Scheduling. Lecture Notes in Computer Science, 2012, , 106-120.	1.3	0
45	Time-bounded reachability in tree-structured QBDs by abstraction. Performance Evaluation, 2011, 68, 105-125.	1.2	6
46	Mean-field framework for performance evaluation of push&pull gossip protocols. Performance Evaluation, 2011, 68, 157-179.	1.2	25
47	Comparison of the Mean-Field Approach and Simulation in a Peer-to-Peer Botnet Case Study. Lecture Notes in Computer Science, 2011, , 133-147.	1.3	15
48	An Adaptive Resource Control Mechanism in Multi-hop Ad-Hoc Networks. Lecture Notes in Computer Science, 2011, , 309-322.	1.3	0
49	Performance evaluation and model checking join forces. Communications of the ACM, 2010, 53, 76-85.	4.5	64
50	Performability assessment by model checking of Markov reward models. Formal Methods in System Design, 2010, 36, 1-36.	0.8	21
51	A Massively Scalable Architecture For Instant Messaging & Presence. Electronic Notes in Theoretical Computer Science, 2010, 261, 109-130.	0.9	4
52	Computing Optimal Schedules of Battery Usage in Embedded Systems. IEEE Transactions on Industrial Informatics, 2010, 6, 276-286.	11.3	31
53	Rare Event Simulation for Highly Dependable Systems with Fast Repairs. , 2010, , .		6
54	Automating the Mean-Field Method for Large Dynamic Gossip Networks. , 2010, , .		13

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55	Setting the Parameters Right for Two-Hop IEEE 802.11e Ad Hoc Networks. Lecture Notes in Computer Science, 2010, , 168-182.	1.3	1
56	Adaptive resource control in 2-hop ad-hoc networks. , 2009, , .		2
57	Mean-Field Analysis for the Evaluation of Gossip Protocols. , 2009, , .		19
58	Time-Bounded Reachability in Tree-Structured QBDs by Abstraction. , 2009, , .		1
59	Maximizing system lifetime by battery scheduling. , 2009, , .		27
60	Distributed Markovian Bisimulation Reduction aimed at CSL Model Checking. Electronic Notes in Theoretical Computer Science, 2008, 220, 35-50.	0.9	9
61	Arcade - A Formal, Extensible, Model-Based Dependability Evaluation Framework. , 2008, , .		11
62	A Control-Theoretic Modeling Approach for Service Differentiation in Multi-hop Ad-hoc Networks. , 2008, , .		2
63	The Performability Tool P'ility. , 2008, , .		2
64	Fitting heavy-tailed HTTP traces with the new stratified EM-algorithm. , 2008, , .		6
65	Quantitative Evaluation in Embedded System Design: Predicting Battery Lifetime in Mobile Devices. , 2008, , .		0
66	Changes in the Web from 2000 to 2007. Lecture Notes in Computer Science, 2008, , 136-148.	1.3	6
67	MeanField analysis for the evaluation of gossip protocols. Performance Evaluation Review, 2008, 36, 31-39.	0.6	14
68	Bottleneck Analysis for Two-Hop IEEE 802.11e Ad Hoc Networks. , 2008, , 279-294.		5
69	Formal analysis techniques for gossiping protocols. Operating Systems Review (ACM), 2007, 41, 28-36.	1.9	25
70	Model Checking Markov Chains with Actions and State Labels. IEEE Transactions on Software Engineering, 2007, 33, 209-224.	5.6	44
71	Computing Battery Lifetime Distributions. , 2007, , .		40
72	Versatile stochastic models for networks with asymmetric TCP sources. Performance Evaluation, 2007, 64, 507-523.	1.2	2

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73	CSL model checking algorithms for QBDs. Theoretical Computer Science, 2007, 382, 24-41.	0.9	19
74	A Fixed-Point Algorithm for Closed Queueing Networks. Lecture Notes in Computer Science, 2007, , 154-170.	1.3	3
75	Faster SPDL Model Checking Through Property-Driven State Space Generation. Lecture Notes in Computer Science, 2007, , 80-96.	1.3	0
76	CSL Model Checking Algorithms for Infinite-State Structured Markov Chains. Lecture Notes in Computer Science, 2007, , 336-351.	1.3	6
77	Guest Editorial for the Special Issue on the 2005 IEEE/IFIP Conference on Dependable Systems and Networks, including the Dependable Computing and Communications and Performance and Dependability Symposia. IEEE Transactions on Dependable and Secure Computing, 2006, 3, 169-171.	5.4	0
78	Distributed disk-based algorithms for model checking very large Markov chains. Formal Methods in System Design, 2006, 29, 177-196.	0.8	11
79	Uniformization with representatives. , 2006, , .		3
80	Efficient computation of time-bounded reachability probabilities in uniform continuous-time Markov decision processes. Theoretical Computer Science, 2005, 345, 2-26.	0.9	100
81	Sequential and distributed model checking of Petri nets. International Journal on Software Tools for Technology Transfer, 2005, 7, 43-60.	1.9	27
82	Model Checking Infinite-State Markov Chains. Lecture Notes in Computer Science, 2005, , 237-252.	1.3	13
83	Performance and verification. Performance Evaluation Review, 2005, 32, 3-3.	0.6	2
84	Model checking meets performance evaluation. Performance Evaluation Review, 2005, 32, 10-15.	0.6	15
85	The pseudo-self-similar traffic model: application and validation. Performance Evaluation, 2004, 56, 3-22.	1.2	12
86	Efficient Computation of Time-Bounded Reachability Probabilities in Uniform Continuous-Time Markov Decision Processes. Lecture Notes in Computer Science, 2004, , 61-76.	1.3	9
87	Fitting world-wide web request traces with the EM-algorithm. Performance Evaluation, 2003, 52, 175-191.	1.2	90
88	Model-checking algorithms for continuous-time markov chains. IEEE Transactions on Software Engineering, 2003, 29, 524-541.	5.6	560
89	A Class-Based Least-Recently Used Caching Algorithm for World-Wide Web Proxies. Lecture Notes in Computer Science, 2003, , 273-290.	1.3	10
90	<title>Weighted fair queueing scheduling for World Wide Web proxy servers</title>. , 2002, , .		2

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91	Introduction to the special section on petri nets and performance models. IEEE Transactions on Software Engineering, 2002, 28, 913-914.	5.6	0
92	Sequential and Distributed Model Checking of Petri Net Specifications. Electronic Notes in Theoretical Computer Science, 2002, 68, 539-558.	0.9	10
93	Automated Performance and Dependability Evaluation Using Model Checking. Lecture Notes in Computer Science, 2002, , 261-289.	1.3	19
94	Enabling Network Caching of Dynamic Web Objects. Lecture Notes in Computer Science, 2002, , 329-338.	1.3	2
95	<title>Fitting World Wide Web request traces with the EM-algorithim</title>. , 2001, , .		7
96	Markovian Models for Performance and Dependability Evaluation. Lecture Notes in Computer Science, 2001, , 38-83.	1.3	30
97	Performance evaluation of multicast communication in packet-switched networks. Performance Evaluation, 2000, 39, 61-80.	1.2	3
98	Model Checking Continuous-Time Markov Chains by Transient Analysis. Lecture Notes in Computer Science, 2000, , 358-372.	1.3	90
99	On the Logical Characterisation of Performability Properties. Lecture Notes in Computer Science, 2000, , 780-792.	1.3	63
100	FiFiQueues: Fixed-Point Analysis of Queueing Networks with Finite-Buffer Stations. Lecture Notes in Computer Science, 2000, , 324-327.	1.3	4
101	Performance evaluation of polling-based communication systems using SPNs. Lecture Notes in Computer Science, 1999, , 176-209.	1.3	5
102	Approximate analysis of networks of PH PH 1 K queues with customer losses: Test results. Annals of Operations Research, 1998, 79, 271-291.	4.1	9
103	<title>Analysis of windowing mechanisms with infinite-state stochastic petri nets</title>. , 1998, 3530, 178.		0
104	Analysis of windowing mechanisms with infinite-state stochastic Petri nets. Performance Evaluation Review, 1998, 26, 38-46.	0.6	2
105	QNA-MC: A Performance Evaluation Tool for Communication Networks with Multicast Data Streams. Lecture Notes in Computer Science, 1998, , 63-74.	1.3	1
106	Quality of service management using generic modelling and monitoring techniques. Distributed Systems Engineering, 1997, 4, 28-37.	0.6	7
107	A mean-value analysis of slotted-ring network models. Telecommunication Systems, 1996, 6, 203-227.	2.5	4
108	Performability modelling tools and techniques. Performance Evaluation, 1996, 25, 17-40.	1.2	45

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109	Probabilistic evaluation for the analytical solution of large Markov models: Algorithms and tool support. <i>Microelectronics Reliability</i> , 1996, 36, 733-755.	1.7	13
110	Design and evaluation of a connection management mechanism for an ATM-based connectionless service. <i>Distributed Systems Engineering</i> , 1996, 3, 53-67.	0.6	4
111	Approximate analysis of networks of PH \hat{A} PH 1 \hat{A} K queues: Theory & tool support. <i>Lecture Notes in Computer Science</i> , 1995, , 239-253.	1.3	13
112	Sensitivity and uncertainty analysis of Markov-reward models. <i>IEEE Transactions on Reliability</i> , 1995, 44, 147-154.	4.6	40
113	Techniques and tools for reliability and performance evaluation: Problems and perspectives. <i>Lecture Notes in Computer Science</i> , 1994, , 1-24.	1.3	16
114	Approximate performability and dependability analysis using generalized stochastic Petri nets. <i>Performance Evaluation</i> , 1993, 18, 61-78.	1.2	26
115	Specification techniques for Markov reward models. <i>Discrete Event Dynamic Systems: Theory and Applications</i> , 1993, 3, 219-247.	1.5	42
116	Composite performance and dependability analysis. <i>Performance Evaluation</i> , 1992, 14, 197-215.	1.2	132
117	Product forms for availability models. <i>Applied Stochastic Models and Data Analysis</i> , 1992, 8, 283-302.	0.4	5
118	Evaluating load balancing policies for performance and energy-efficiency. <i>Electronic Proceedings in Theoretical Computer Science</i> , EPTCS, 0, 227, 98-117.	0.8	2
119	A Uniformization-Based Algorithm for Model Checking the CSL Until Operator on Labeled Queueing Networks. <i>Lecture Notes in Computer Science</i> , 0, , 188-202.	1.3	1