

Mieke Massink

List of Publications by Year in descending order

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89
papers

1,553
citations

430874

18
h-index

434195

31
g-index

95
all docs

95
docs citations

95
times ranked

629
citing authors

#	ARTICLE	IF	CITATIONS
1	Automatic Verification of a Behavioural Subset of UML Statechart Diagrams Using the SPIN Model-checker. Formal Aspects of Computing, 1999, 11, 637-664.	1.8	215
2	Continuous approximation of collective system behaviour: A tutorial. Performance Evaluation, 2013, 70, 317-349.	1.2	142
3	Towards a Formal Operational Semantics of UML Statechart Diagrams. , 1999, , 331-347.		92
4	Model checking mobile stochastic logic. Theoretical Computer Science, 2007, 382, 42-70.	0.9	58
5	The SCEL Language: Design, Implementation, Verification. Lecture Notes in Computer Science, 2015, , 3-71.	1.3	48
6	Specifying and Verifying Properties of Space. Lecture Notes in Computer Science, 2014, , 222-235.	1.3	44
7	Qualitative and Quantitative Monitoring of Spatio-Temporal Properties. Lecture Notes in Computer Science, 2015, , 21-37.	1.3	43
8	Spatio-temporal model checking of vehicular movement in public transport systems. International Journal on Software Tools for Technology Transfer, 2018, 20, 289-311.	1.9	41
9	A uniform definition of stochastic process calculi. ACM Computing Surveys, 2013, 46, 1-35.	23.0	36
10	A Tool-Chain for Statistical Spatio-Temporal Model Checking of Bike Sharing Systems. Lecture Notes in Computer Science, 2016, , 657-673.	1.3	35
11	Modular semantics for a UML statechart diagrams kernel and its extension to multicharts and branching time model-checking. The Journal of Logic and Algebraic Programming, 2002, 51, 43-75.	1.4	33
12	On the use of Bio-PEPA for modelling and analysing collective behaviours in swarm robotics. Swarm Intelligence, 2013, 7, 201-228.	2.2	32
13	Formal test-case generation for UML statecharts. , 0, , .		30
14	CARMA: Collective Adaptive Resource-sharing Markovian Agents. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 194, 16-31.	0.8	30
15	Formal modeling and quantitative analysis of KLAIM-based mobile systems. , 2005, , .		29
16	An Experimental Spatio-Temporal Model Checker. Lecture Notes in Computer Science, 2015, , 297-311.	1.3	26
17	On-the-fly PCTL fast mean-field approximated model-checking for self-organising coordination. Science of Computer Programming, 2015, 110, 23-50.	1.9	25
18	Model Checking Spatial Logics for Closure Spaces. Logical Methods in Computer Science, 0, Volume 12, Issue 4, .	0.4	25

#	ARTICLE	IF	CITATIONS
19	Exploring Spatio-temporal Properties of Bike-Sharing Systems. , 2015, , .		24
20	Rate-Based Transition Systems for Stochastic Process Calculi. Lecture Notes in Computer Science, 2009, , 435-446.	1.3	24
21	Scalable context-dependent analysis of emergency egress models. Formal Aspects of Computing, 2012, 24, 267-302.	1.8	22
22	Spatial logics and model checking for medical imaging. International Journal on Software Tools for Technology Transfer, 2020, 22, 195-217.	1.9	22
23	The Hybrid World of Virtual Environments. Computer Graphics Forum, 1999, 18, 297-308.	3.0	21
24	VoxLogicA: A Spatial Model Checker for Declarative Image Analysis. Lecture Notes in Computer Science, 2019, , 281-298.	1.3	21
25	A formal testing framework for UML statechart diagrams behaviours: from theory to automatic verification. , 0, , .		18
26	On-the-fly Fast Mean-Field Model-Checking. Lecture Notes in Computer Science, 2014, , 297-314.	1.3	16
27	MarCaSPiS: a Markovian Extension of a Calculus for Services. Electronic Notes in Theoretical Computer Science, 2009, 229, 11-26.	0.9	15
28	Data Verification for Collective Adaptive Systems: Spatial Model-Checking of Vehicle Location Data. , 2014, , .		15
29	Spatial Logic and Spatial Model Checking for Closure Spaces. Lecture Notes in Computer Science, 2016, , 156-201.	1.3	15
30	AGILE: Software Architecture for Mobility. Lecture Notes in Computer Science, 2003, , 1-33.	1.3	14
31	Scalable analysis of collective behaviour in smart service systems. , 2010, , .		14
32	Feasibility of Spatial Model Checking for Nevus Segmentation. , 2021, , .		14
33	Stochastically timed predicate-based communication primitives for autonomic computing. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 154, 1-16.	0.8	14
34	A stochastic extension of a behavioural subset of UML statechart diagrams. , 0, , .		12
35	Model checking dependability attributes of wireless group communication. , 2004, , .		12
36	Towards Automatic Decision Support for Bike-Sharing System Design. Lecture Notes in Computer Science, 2015, , 266-280.	1.3	12

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37	Resilience of Interaction Techniques to Interrupts: A Formal Model-Based Approach. Lecture Notes in Computer Science, 2009, , 494-509.	1.3	11
38	Specification and Verification of Media Constraints using UPPAAL. Eurographics, 1998, , 261-277.	0.4	11
39	A reference framework for continuous interaction. Universal Access in the Information Society, 2002, 1, 237-251.	3.0	10
40	A formal approach supporting the comparative predictive assessment of the interruption-tolerance of interactive systems. , 2009, , .		10
41	A refined mean field approximation of synchronous discrete-time population models. Performance Evaluation, 2018, 126, 1-21.	1.2	10
42	Using Hybrid Automata to Support Human Factors Analysis in a Critical System. Formal Methods in System Design, 2001, 19, 143-164.	0.8	9
43	Model Checking Publish/Subscribe Notification for thinkteamÂ®. Electronic Notes in Theoretical Computer Science, 2005, 133, 275-294.	0.9	9
44	Towards Hybrid Interface Specification for Virtual Environments. Eurographics, 1999, , 30-51.	0.4	9
45	Engineering crowd interaction within smart environments. , 2009, , .		8
46	Innovating Medical Image Analysis via Spatial Logics. Lecture Notes in Computer Science, 2019, , 85-109.	1.3	8
47	Fluid Analysis of Foraging Ants. Lecture Notes in Computer Science, 2012, , 152-165.	1.3	8
48	Analysing Robot Swarm Decision-Making with Bio-PEPA. Lecture Notes in Computer Science, 2012, , 25-36.	1.3	8
49	Stochastic Process Algebra and Stability Analysis of Collective Systems. Lecture Notes in Computer Science, 2013, , 1-15.	1.3	8
50	From Collective Adaptive Systems to Human Centric Computation and Back: Spatial Model Checking for Medical Imaging. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 217, 81-92.	0.8	8
51	Continuity in human computer interaction. , 2000, , .		7
52	A case study on the automated verification of groupware protocols. , 2005, , .		7
53	On testing UML statecharts. The Journal of Logic and Algebraic Programming, 2006, 69, 1-74.	1.4	7
54	On a Uniform Framework for the Definition of Stochastic Process Languages. Lecture Notes in Computer Science, 2009, , 9-25.	1.3	7

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55	Model-Based Assessment of Aspects of User-satisfaction in Bicycle Sharing Systems. , 2015, , .		6
56	On-the-fly Fluid Model Checking via Discrete Time Population Models. Lecture Notes in Computer Science, 2015, , 193-207.	1.3	6
57	On testing and conformance relations for UML statechart diagrams behaviours. Software Engineering Notes: an Informal Newsletter of the Special Interest Committee on Software Engineering / ACM, 2002, , .	0.7	5
58	Towards a Logic for Performance and Mobility. Electronic Notes in Theoretical Computer Science, 2006, 153, 161-175.	0.9	5
59	Towards Model Checking Stochastic Aspects of the thinkteam User Interface. Lecture Notes in Computer Science, 2006, , 39-50.	1.3	5
60	Embedding RCC8D in the Collective Spatial Logic CSLCS. Lecture Notes in Computer Science, 2019, , 260-277.	1.3	5
61	First Passage Time Analysis of Stochastic Process Algebra Using Partial Orders. Lecture Notes in Computer Science, 2001, , 220-235.	1.3	5
62	Haptic Cues for Image Disambiguation. Computer Graphics Forum, 2000, 19, 169-178.	3.0	4
63	Modelling Interactive Experience, Function and Performance in Ubiquitous Systems. Electronic Notes in Theoretical Computer Science, 2010, 261, 23-42.	0.9	4
64	A Hands-On Introduction to Spatial Model Checking Using VoxLogicA. Lecture Notes in Computer Science, 2021, , 22-41.	1.3	4
65	On-the-Fly Mean-Field Model-Checking for Attribute-Based Coordination. Lecture Notes in Computer Science, 2016, , 67-83.	1.3	4
66	Combining Timed Coordination Primitives and Probabilistic Tuple Spaces. Lecture Notes in Computer Science, 2009, , 52-68.	1.3	4
67	FlyFast: A Mean Field Model Checker. Lecture Notes in Computer Science, 2017, , 303-309.	1.3	4
68	Towards Integrated Cognitive and Interface Analysis. Electronic Notes in Theoretical Computer Science, 2001, 43, 97-112.	0.9	3
69	On testing and conformance relations for UML statechart diagrams behaviours. Software Engineering Notes: an Informal Newsletter of the Special Interest Committee on Software Engineering / ACM, 2002, 27, 144-153.	0.7	3
70	SoSL: A Service-Oriented Stochastic Logic. Lecture Notes in Computer Science, 2011, , 447-466.	1.3	3
71	On-the-fly Probabilistic Model Checking. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 166, 45-59.	0.8	3
72	Mobile UML Statecharts with Localities. Lecture Notes in Computer Science, 2005, , 34-58.	1.3	3

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73	Formal Verification in the Design of Gestural Interaction. Electronic Notes in Theoretical Computer Science, 2001, 43, 75-96.	0.9	2
74	Assisting the design of a groupware system. The Journal of Logic and Algebraic Programming, 2009, 78, 191-232.	1.4	2
75	Design and Optimisation of the FlyFast Front-end for Attribute-based Coordination. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 250, 92-110.	0.8	2
76	On Mobility Extensions of UML Statecharts. A Pragmatic Approach. Lecture Notes in Computer Science, 2003, , 199-213.	1.3	2
77	Investigating Fluid-Flow Semantics of Asynchronous Tuple-Based Process Languages for Collective Adaptive Systems. Lecture Notes in Computer Science, 2015, , 19-34.	1.3	2
78	On StocS: A Stochastic Extension of SCEL. Lecture Notes in Computer Science, 2015, , 619-640.	1.3	2
79	Bisimulation of Labelled State-to-Function Transition Systems Coalgebraically. Logical Methods in Computer Science, 2015, 11, .	0.4	2
80	Equational semantics for Basic LOTOS and an example of its use in a transformational proof style. , 0, .		1
81	Basic Observables for Probabilistic May Testing. , 2007, , .		1
82	A Definition Scheme for Quantitative Bisimulation. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 194, 63-78.	0.8	1
83	A Refined Mean Field Approximation for Synchronous Population Processes. Performance Evaluation Review, 2019, 46, 30-32.	0.6	1
84	Refined Mean Field Analysis: The Gossip Shuffle Protocol Revisited. Lecture Notes in Computer Science, 2020, , 230-239.	1.3	1
85	Analysis of Pointing Tasks on a White Board. , 2006, , 185-198.		1
86	A Fluid Flow Approach to Usability Analysis of Multi-user Systems. Lecture Notes in Computer Science, 2008, , 166-180.	1.3	1
87	Quantitative Aspects of Programming Languages and Systems (2011–12). Theoretical Computer Science, 2014, 538, 1.	0.9	0
88	FlyFast: A Scalable Approach to Probabilistic Model-Checking Based on Mean-Field Approximation. Lecture Notes in Computer Science, 2017, , 254-275.	1.3	0
89	Spatial Model Checking for Smart Stations. Lecture Notes in Computer Science, 2021, , 39-47.	1.3	0