

Maurice H Ter Beek

List of Publications by Year in descending order

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116
papers

1,445
citations

516215

16
h-index

552369

26
g-index

132
all docs

132
docs citations

132
times ranked

496
citing authors

#	ARTICLE	IF	CITATIONS
1	Web Service Composition Approaches: From Industrial Standards to Formal Methods. , 2007, , .		93
2	A state/event-based model-checking approach for the analysis of abstract system properties. Science of Computer Programming, 2011, 76, 119-135.	1.5	70
3	Formal Description of Variability in Product Families. , 2011, , .		69
4	Modelling and analysing variability in product families: Model checking of modal transition systems with variability constraints. Journal of Logical and Algebraic Methods in Programming, 2016, 85, 287-315.	0.4	69
5	Synchronizations in Team Automata for Groupware Systems. Computer Supported Cooperative Work, 2003, 12, 21-69.	1.9	54
6	On the Industrial Uptake of Formal Methods in the Railway Domain. Lecture Notes in Computer Science, 2018, , 20-29.	1.0	38
7	The 2020 Expert Survey on Formal Methods. Lecture Notes in Computer Science, 2020, , 3-69.	1.0	35
8	A Framework for Quantitative Modeling and Analysis of Highly (Re)configurable Systems. IEEE Transactions on Software Engineering, 2020, 46, 321-345.	4.3	31
9	VMC: A Tool for Product Variability Analysis. Lecture Notes in Computer Science, 2012, , 450-454.	1.0	30
10	An Action/State-Based Model-Checking Approach for the Analysis of Communication Protocols for Service-Oriented Applications. Lecture Notes in Computer Science, 2008, , 133-148.	1.0	30
11	A Logical Framework to Deal with Variability. Lecture Notes in Computer Science, 2010, , 43-58.	1.0	29
12	Statistical analysis of probabilistic models of software product lines with quantitative constraints. , 2015, , .		27
13	Family-Based Model Checking with mCRL2. Lecture Notes in Computer Science, 2017, , 387-405.	1.0	26
14	Adopting Formal Methods in an Industrial Setting: The Railways Case. Lecture Notes in Computer Science, 2019, , 762-772.	1.0	24
15	Combining declarative and procedural views in the specification and analysis of product families. , 2013, , .		23
16	Using mCRL2 for the analysis of software product lines. , 2014, , .		23
17	Modelling and Analysing ERTMS L3 Moving Block Railway Signalling with Simulink and Uppaal SMC. Lecture Notes in Computer Science, 2019, , 1-21.	1.0	22
18	Formal verification of an automotive scenario in service-oriented computing. , 2008, , .		21

#	ARTICLE	IF	CITATIONS
19	Supervisory Controller Synthesis for Product Lines Using CIF ³ . Lecture Notes in Computer Science, 2016, , 856-873.	1.0	21
20	Survey on Formal Methods and Tools in Railways: The ASTRail Approach. Lecture Notes in Computer Science, 2019, , 226-241.	1.0	21
21	Comparing formal tools for system design. , 2020, , .		20
22	Statistical Model Checking of a Moving Block Railway Signalling Scenario with Uppaal SMC. Lecture Notes in Computer Science, 2018, , 372-391.	1.0	19
23	Formal methods for transport systems. International Journal on Software Tools for Technology Transfer, 2018, 20, 237-241.	1.7	19
24	Textual Variability Modeling Languages. , 2019, , .		18
25	A Model-Checking Tool for Families of Services. Lecture Notes in Computer Science, 2011, , 44-58.	1.0	18
26	CMC-UMC. , 2009, , .		17
27	Statistical Model Checking for Product Lines. Lecture Notes in Computer Science, 2016, , 114-133.	1.0	16
28	Strategy Synthesis for Autonomous Driving in a Moving Block Railway System with Uppaal Stratego. Lecture Notes in Computer Science, 2020, , 3-21.	1.0	16
29	On the expressiveness of modal transition systems with variability constraints. Science of Computer Programming, 2019, 169, 1-17.	1.5	15
30	Controller synthesis of service contracts with variability. Science of Computer Programming, 2020, 187, 102344.	1.5	14
31	From EU Projects to a Family of Model Checkers. Lecture Notes in Computer Science, 2015, , 312-328.	1.0	14
32	Team Automata Satisfying Compositionality. Lecture Notes in Computer Science, 2003, , 381-400.	1.0	13
33	VMC. , 2014, , .		12
34	Towards Automatic Decision Support for Bike-Sharing System Design. Lecture Notes in Computer Science, 2015, , 266-280.	1.0	12
35	Orchestration of Dynamic Service Product Lines with Featured Modal Contract Automata. , 2017, , .		12
36	Static Analysis of Featured Transition Systems. , 2019, , .		11

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37	Resilience of Interaction Techniques to Interrupts: A Formal Model-Based Approach. Lecture Notes in Computer Science, 2009, , 494-509.	1.0	11
38	A Compositional Framework to Derive Product Line Behavioural Descriptions. Lecture Notes in Computer Science, 2012, , 146-161.	1.0	11
39	A formal approach supporting the comparative predictive assessment of the interruption-tolerance of interactive systems. , 2009, , .		10
40	Communication Requirements for Team Automata. Lecture Notes in Computer Science, 2017, , 256-277.	1.0	10
41	Quantitative Analysis of Probabilistic Models of Software Product Lines with Statistical Model Checking. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 182, 56-70.	0.8	10
42	Model Checking Publish/Subscribe Notification for thinkteam [®] . Electronic Notes in Theoretical Computer Science, 2005, 133, 275-294.	0.9	9
43	ON COMPETENCE IN CD GRAMMAR SYSTEMS WITH PARALLEL REWRITING. International Journal of Foundations of Computer Science, 2007, 18, 1425-1439.	0.8	9
44	Design and validation of variability in product lines. , 2011, , .		9
45	Using FMC for family-based analysis of software product lines. , 2015, , .		9
46	Designing a Demonstrator of Formal Methods for Railways Infrastructure Managers. Lecture Notes in Computer Science, 2020, , 467-485.	1.0	9
47	Replicated Computations Results (RCR) Report for "Design and Verification of Trusted Collective Adaptive Systems" ACM Transactions on Modeling and Computer Simulation, 2018, 28, 1-3.	0.6	9
48	Team Automata for Security. Electronic Notes in Theoretical Computer Science, 2005, 128, 105-119.	0.9	8
49	Synchronized shuffles. Theoretical Computer Science, 2005, 341, 263-275.	0.5	8
50	Modelling and analysis with featured modal contract automata. , 2018, , .		8
51	Timed service contract automata. Innovations in Systems and Software Engineering, 2020, 16, 199-214.	1.6	8
52	Quantitative Security Risk Modeling and Analysis with RisQLan. Computers and Security, 2021, 109, 102381.	4.0	8
53	From Featured Transition Systems to Modal Transition Systems with Variability Constraints. Lecture Notes in Computer Science, 2015, , 344-359.	1.0	8
54	On Competence in CD Grammar Systems. Lecture Notes in Computer Science, 2004, , 76-88.	1.0	8

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55	Exploring the ERTMS/ETCS full moving block specification: an experience with formal methods. International Journal on Software Tools for Technology Transfer, 2022, 24, 351-370.	1.7	8
56	Modularity for teams of I/O automata. Information Processing Letters, 2005, 95, 487-495.	0.4	7
57	A case study on the automated verification of groupware protocols. , 2005, , .		7
58	Formal Modelling and Verification of an Asynchronous Extension of SOAP. , 2006, , .		7
59	Demonstration of a model checker for the analysis of product variability. , 2012, , .		7
60	Product line models of large cyber-physical systems. , 2018, , .		7
61	Quantitative Variability Modeling and Analysis. , 2019, , .		7
62	Family-Based SPL Model Checking Using Parity Games with Variability. Lecture Notes in Computer Science, 2020, , 245-265.	1.0	7
63	Conditions for Compatibility of Components. Lecture Notes in Computer Science, 2016, , 784-805.	1.0	7
64	Challenges in Modelling and Analyzing Quantitative Aspects of Bike-Sharing Systems. Lecture Notes in Computer Science, 2014, , 351-367.	1.0	7
65	Efficient static analysis and verification of featured transition systems. Empirical Software Engineering, 2022, 27, .	3.0	7
66	Coherent branching feature bisimulation. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 182, 14-30.	0.8	7
67	Contract Automata Library. Science of Computer Programming, 2022, 221, 102841.	1.5	7
68	Team Automata for Spatial Access Control. , 2001, , 59-77.		6
69	Towards a Feature mu-Calculus Targeting SPL Verification. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 206, 61-75.	0.8	6
70	X-by-Construction. Lecture Notes in Computer Science, 2018, , 359-364.	1.0	6
71	Formal methods and tools for industrial critical systems. International Journal on Software Tools for Technology Transfer, 2022, 24, 325-330.	1.7	6
72	Infinite unfair shuffles and associativity. Theoretical Computer Science, 2007, 380, 401-410.	0.5	5

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73	Applying the product lines paradigm to the quantitative analysis of collective adaptive systems. , 2015, ,		5
74	Correctness-by-Construction and Post-hoc Verification: Friends or Foes?. Lecture Notes in Computer Science, 2016, , 723-729.	1.0	5
75	Formal methods and automated verification of critical systems. International Journal on Software Tools for Technology Transfer, 2018, 20, 355-358.	1.7	5
76	Towards Model Checking Stochastic Aspects of the thinkteam User Interface. Lecture Notes in Computer Science, 2006, , 39-50.	1.0	5
77	Featured Team Automata. Lecture Notes in Computer Science, 2021, , 483-502.	1.0	5
78	Software product line analysis with mCRL2. , 2014, , .		4
79	30 Years of Simulation-Based Quantitative Analysis Tools: A Comparison Experiment Between MÃ¶bius and Uppaal SMC. Lecture Notes in Computer Science, 2020, , 368-384.	1.0	4
80	Compositionality of Safe Communication in Systems of Team Automata. Lecture Notes in Computer Science, 2020, , 200-220.	1.0	4
81	A Calculus for Team Automata. Electronic Notes in Theoretical Computer Science, 2008, 195, 41-55.	0.9	3
82	Vector team automata. Theoretical Computer Science, 2012, 429, 21-29.	0.5	3
83	Orchestration Synthesis for Real-Time Service Contracts. Lecture Notes in Computer Science, 2018, , 31-47.	1.0	3
84	Variability-Based Design of Services for Smart Transportation Systems. Lecture Notes in Computer Science, 2016, , 465-481.	1.0	3
85	Model Checking Value-Passing Modal Specifications. Lecture Notes in Computer Science, 2015, , 304-319.	1.0	3
86	Product Lines for Service Oriented Applications - PL for SOA. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 61, 34-48.	0.8	3
87	States and Events in KandISTI. Lecture Notes in Computer Science, 2019, , 110-128.	1.0	3
88	Dynamic Software Architecture Development: Towards an Automated Process. , 2009, , .		2
89	Assisting the design of a groupware system. The Journal of Logic and Algebraic Programming, 2009, 78, 191-232.	1.4	2
90	Guest Editorial for the Special Issue on FORmal methods for the quantitative Evaluation of Collective Adaptive Systems (FORECAST). ACM Transactions on Modeling and Computer Simulation, 2018, 28, 1-4.	0.6	2

#	ARTICLE	IF	CITATIONS
91	Quantitative variability modelling and analysis. International Journal on Software Tools for Technology Transfer, 2019, 21, 607-612.	1.7	2
92	Static analysis and family-based model checking with VMC. , 2021, , .		2
93	Fomal Methods and Analyses in Software Product Line Engineering. Lecture Notes in Computer Science, 2014, , 253-256.	1.0	2
94	Sensoria Results Applied to the Case Studies. Lecture Notes in Computer Science, 2011, , 655-677.	1.0	2
95	Guaranteeing Correct Evolution of Software Product Lines: Setting Up the Problem. Lecture Notes in Computer Science, 2011, , 100-105.	1.0	2
96	X-by-Construction. Lecture Notes in Computer Science, 2020, , 211-215.	1.0	2
97	Teams of pushdown automata. International Journal of Computer Mathematics, 2004, 81, 141-156.	1.0	1
98	Towards Security Analyses of an Identity Federation Protocol for Web Services in Convergent Networks. , 2007, , .		1
99	Associativity of Infinite Synchronized Shuffles and Team Automata. Fundamenta Informaticae, 2009, 91, 437-461.	0.3	1
100	Formal methods and analysis in software product line engineering. , 2012, , .		1
101	Formal methods and analysis in software product line engineering. , 2013, , .		1
102	Automated verification of programs and Web systems. Journal of Logical and Algebraic Methods in Programming, 2016, 85, 653-654.	0.4	1
103	Static analysis and family-based model checking of featured transition systems with VMC. , 2021, , .		1
104	Assume-Guarantee Testing of Evolving Software Product Line Architectures. Lecture Notes in Computer Science, 2012, , 91-105.	1.0	1
105	Analysing Robot Movement Using the Sensoria Methods. Lecture Notes in Computer Science, 2011, , 678-697.	1.0	1
106	From the Archives of the Formal Methods and Tools Lab. Lecture Notes in Computer Science, 2019, , 219-235.	1.0	1
107	The Legacy of Stefania Gnesi. Lecture Notes in Computer Science, 2019, , 1-11.	1.0	1
108	Team Automata@Work: On Safe Communication. Lecture Notes in Computer Science, 2020, , 77-85.	1.0	1

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109	Variability and Rigour in Service Computing Engineering. , 2011, , .		0
110	Validating reconfigurations of reo circuits in an e-Banking scenario. , 2013, , .		0
111	Formal methods: practical applications and foundations. Formal Methods in System Design, 2021, 58, 1-4.	0.9	0
112	Spatial Model Checking for Smart Stations. Lecture Notes in Computer Science, 2021, , 39-47.	1.0	0
113	Teams of Pushdown Automata. Lecture Notes in Computer Science, 2004, , 329-337.	1.0	0
114	Summary of: On the Expressiveness of Modal Transition Systems with Variability Constraints. Lecture Notes in Computer Science, 2019, , 542-546.	1.0	0
115	Variability meets security. , 2020, , .		0
116	Formal methods: practical applications and foundations. Formal Methods in System Design, 2022, 58, 1-4.	0.9	0