

Muffy Calder

List of Publications by Year in descending order

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44
papers

1,607
citations

567281

15
h-index

302126

39
g-index

49
all docs

49
docs citations

49
times ranked

1641
citing authors

#	ARTICLE	IF	CITATIONS
1	Modelling and Verifying BDI Agents with Bigraphs. Science of Computer Programming, 2021, 215, 102760.	1.9	4
2	Conditional Bigraphs. Lecture Notes in Computer Science, 2020, , 3-19.	1.3	6
3	Stochastic Model Checking for Predicting Component Failures and Service Availability. IEEE Transactions on Dependable and Secure Computing, 2019, 16, 174-187.	5.4	10
4	Modelling and Verification of Large-Scale Sensor Network Infrastructures. , 2018, , .		11
5	Making Sense of the World: Framing Models for Trustworthy Sensor-Driven Systems. Computers, 2018, 7, 62.	3.3	3
6	Data-driven modelling and probabilistic analysis of interactive software usage. Journal of Logical and Algebraic Methods in Programming, 2018, 100, 195-214.	0.5	1
7	Computational modelling for decision-making: where, why, what, who and how. Royal Society Open Science, 2018, 5, 172096.	2.4	68
8	Temporal Analytics for Software Usage Models. Lecture Notes in Computer Science, 2018, , 9-24.	1.3	1
9	BigraphER: Rewriting and Analysis Engine for Bigraphs. Lecture Notes in Computer Science, 2016, , 494-501.	1.3	27
10	On Lions, Impala, and Bigraphs. ACM Transactions on Computer-Human Interaction, 2016, 23, 1-56.	5.7	23
11	Bigraphs with sharing. Theoretical Computer Science, 2015, 577, 43-73.	0.9	41
12	Is my configuration any good: checking usability in an interactive sensor-based activity monitor. Innovations in Systems and Software Engineering, 2015, 11, 131-142.	2.1	2
13	Modelling IEEE 802.11 CSMA/CA RTS/CTS with stochastic bigraphs with sharing. Formal Aspects of Computing, 2014, 26, 537-561.	1.8	20
14	Do I Need to Fix a Failed Component Now, or Can I Wait Until Tomorrow?. , 2014, , .		1
15	Real-time verification of wireless home networks using bigraphs with sharing. Science of Computer Programming, 2014, 80, 288-310.	1.9	19
16	Probabilistic Model Checking of DTMC Models of User Activity Patterns. Lecture Notes in Computer Science, 2014, , 138-153.	1.3	4
17	Modular modelling of signalling pathways and their cross-talk. Theoretical Computer Science, 2012, 456, 30-50.	0.9	11
18	Trend-Based Analysis of a Population Model of the AKAP Scaffold Protein. Lecture Notes in Computer Science, 2012, , 1-25.	1.3	4

#	ARTICLE	IF	CITATIONS
19	Multi-scale modelling of biological systems in process algebra with multi-way synchronisation. , 2011, , ,		5
20	A Model and Analysis of the AKAP Scaffold. Electronic Notes in Theoretical Computer Science, 2010, 268, 3-15.	0.9	7
21	Process Algebra with Hooks for Models of Pattern Formation. Electronic Notes in Theoretical Computer Science, 2010, 268, 31-47.	0.9	4
22	Relating PDEs in Cylindrical Coordinates and CTMCs with Levels of Concentration. Electronic Notes in Theoretical Computer Science, 2010, 268, 49-59.	0.9	1
23	Understanding signalling networks as collections of signal transduction pathways. , 2010, , ,		6
24	The Mammalian MAPK/ERK Pathway Exhibits Properties of a Negative Feedback Amplifier. Science Signaling, 2010, 3, ra90.	3.6	216
25	Formal Methods for Biochemical Signalling Pathways. , 2010, , 185-215.		8
26	An Inductive Technique for Parameterised Model Checking of Degenerative Distributed Randomised Protocols. Electronic Notes in Theoretical Computer Science, 2009, 250, 87-103.	0.9	2
27	Some Investigations Concerning the CTMC and the ODE Model Derived From Bio-PEPA. Electronic Notes in Theoretical Computer Science, 2009, 229, 145-163.	0.9	29
28	Process Algebra Modelling Styles for Biomolecular Processes. Lecture Notes in Computer Science, 2009, , 1-25.	1.3	11
29	Feature interaction detection by pairwise analysis of LTL propertiesâ€”A case study. Formal Methods in System Design, 2006, 28, 213-261.	0.8	32
30	Symmetry in temporal logic model checking. ACM Computing Surveys, 2006, 38, 8.	23.0	73
31	Modelling the Influence of RKIP on the ERK Signalling Pathway Using the Stochastic Process Algebra PEPA. Lecture Notes in Computer Science, 2006, , 1-23.	1.3	83
32	Analysis of Signalling Pathways Using Continuous Time Markov Chains. Lecture Notes in Computer Science, 2006, , 44-67.	1.3	53
33	Spin-to-Grape: A Tool for Analysing Symmetry in Promela Models. Electronic Notes in Theoretical Computer Science, 2005, 139, 3-23.	0.9	9
34	Finding Symmetry in Models of Concurrent Systems by Static Channel Diagram Analysis. Electronic Notes in Theoretical Computer Science, 2005, 128, 161-177.	0.9	11
35	Computational modelling of the receptor-tyrosine-kinase-activated MAPK pathway. Biochemical Journal, 2005, 392, 249-261.	3.7	289
36	When kinases meet mathematics: the systems biology of MAPK signalling. FEBS Letters, 2005, 579, 1891-1895.	2.8	151

#	ARTICLE	IF	CITATIONS
37	Detecting Feature Interactions: How Many Components Do We Need?. Lecture Notes in Computer Science, 2004, , 45-66.	1.3	3
38	Optimising Communication Structure for Model Checking. Lecture Notes in Computer Science, 2004, , 310-323.	1.3	6
39	Using SPIN to Analyse the Tree Identification Phase of the IEEE 1394 High-Performance Serial Bus (FireWire) Protocol. Formal Aspects of Computing, 2003, 14, 247-266.	1.8	6
40	Feature interaction: a critical review and considered forecast. Computer Networks, 2003, 41, 115-141.	5.1	288
41	A Modal Logic for Full LOTOS based on Symbolic Transition Systems. Computer Journal, 2002, 45, 55-61.	2.4	16
42	Using SPIN for feature interaction analysis - a case study. Lecture Notes in Computer Science, 2001, , 143-162.	1.3	16
43	Observable and Attention-Directing BDI Agents for Human-Autonomy Teaming. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 348, 167-175.	0.8	1
44	Probabilistic Bigraphs. Formal Aspects of Computing, 0, , .	1.8	2