

Muffy Calder

List of Publications by Year in descending order

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Version: 2024-02-01

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	Computational modelling of the receptor-tyrosine-kinase-activated MAPK pathway. Biochemical Journal, 2005, 392, 249-261.	3.7	289
2	Feature interaction: a critical review and considered forecast. Computer Networks, 2003, 41, 115-141.	5.1	288
3	The Mammalian MAPK/ERK Pathway Exhibits Properties of a Negative Feedback Amplifier. Science Signaling, 2010, 3, ra90.	3.6	216
4	When kinases meet mathematics: the systems biology of MAPK signalling. FEBS Letters, 2005, 579, 1891-1895.	2.8	151
5	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
6	Symmetry in temporal logic model checking. ACM Computing Surveys, 2006, 38, 8.	23.0	73
7	Computational modelling for decision-making: where, why, what, who and how. Royal Society Open Science, 2018, 5, 172096.	2.4	68
8	Analysis of Signalling Pathways Using Continuous Time Markov Chains. Lecture Notes in Computer Science, 2006, , 44-67.	1.3	53
9	Bigraphs with sharing. Theoretical Computer Science, 2015, 577, 43-73.	0.9	41
10	Feature interaction detection by pairwise analysis of LTL properties – A case study. Formal Methods in System Design, 2006, 28, 213-261.	0.8	32
11	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
12	BigraphER: Rewriting and Analysis Engine for Bigraphs. Lecture Notes in Computer Science, 2016, , 494-501.	1.3	27
13	On Lions, Impala, and Bigraphs. ACM Transactions on Computer-Human Interaction, 2016, 23, 1-56.	5.7	23
14	Modelling IEEE 802.11 CSMA/CA RTS/CTS with stochastic bigraphs with sharing. Formal Aspects of Computing, 2014, 26, 537-561.	1.8	20
15	Real-time verification of wireless home networks using bigraphs with sharing. Science of Computer Programming, 2014, 80, 288-310.	1.9	19
16	A Modal Logic for Full LOTOS based on Symbolic Transition Systems. Computer Journal, 2002, 45, 55-61.	2.4	16
17	Using SPIN for feature interaction analysis - a case study. Lecture Notes in Computer Science, 2001, , 143-162.	1.3	16
18	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

#	ARTICLE	IF	CITATIONS
19	Modular modelling of signalling pathways and their cross-talk. Theoretical Computer Science, 2012, 456, 30-50.	0.9	11
20	Modelling and Verification of Large-Scale Sensor Network Infrastructures. , 2018, , .		11
21	Process Algebra Modelling Styles for Biomolecular Processes. Lecture Notes in Computer Science, 2009, , 1-25.	1.3	11
22	Stochastic Model Checking for Predicting Component Failures and Service Availability. IEEE Transactions on Dependable and Secure Computing, 2019, 16, 174-187.	5.4	10
23	Spin-to-Grape: A Tool for Analysing Symmetry in Promela Models. Electronic Notes in Theoretical Computer Science, 2005, 139, 3-23.	0.9	9
24	Formal Methods for Biochemical Signalling Pathways. , 2010, , 185-215.		8
25	A Model and Analysis of the AKAP Scaffold. Electronic Notes in Theoretical Computer Science, 2010, 268, 3-15.	0.9	7
26	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
27	Optimising Communication Structure for Model Checking. Lecture Notes in Computer Science, 2004, , 310-323.	1.3	6
28	Understanding signalling networks as collections of signal transduction pathways. , 2010, , .		6
29	Conditional Bigraphs. Lecture Notes in Computer Science, 2020, , 3-19.	1.3	6
30	Multi-scale modelling of biological systems in process algebra with multi-way synchronisation. , 2011, , .		5
31	Process Algebra with Hooks for Models of Pattern Formation. Electronic Notes in Theoretical Computer Science, 2010, 268, 31-47.	0.9	4
32	Trend-Based Analysis of a Population Model of the AKAP Scaffold Protein. Lecture Notes in Computer Science, 2012, , 1-25.	1.3	4
33	Probabilistic Model Checking of DTMC Models of User Activity Patterns. Lecture Notes in Computer Science, 2014, , 138-153.	1.3	4
34	Modelling and Verifying BDI Agents with Bigraphs. Science of Computer Programming, 2021, 215, 102760.	1.9	4
35	Detecting Feature Interactions: How Many Components Do We Need?. Lecture Notes in Computer Science, 2004, , 45-66.	1.3	3
36	Making Sense of the World: Framing Models for Trustworthy Sensor-Driven Systems. Computers, 2018, 7, 62.	3.3	3

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37	An Inductive Technique for Parameterised Model Checking of Degenerative Distributed Randomised Protocols. <i>Electronic Notes in Theoretical Computer Science</i> , 2009, 250, 87-103.	0.9	2
38	Is my configuration any good: checking usability in an interactive sensor-based activity monitor. <i>Innovations in Systems and Software Engineering</i> , 2015, 11, 131-142.	2.1	2
39	Probabilistic Bigraphs. <i>Formal Aspects of Computing</i> , 0, , .	1.8	2
40	Relating PDEs in Cylindrical Coordinates and CTMCs with Levels of Concentration. <i>Electronic Notes in Theoretical Computer Science</i> , 2010, 268, 49-59.	0.9	1
41	Do I Need to Fix a Failed Component Now, or Can I Wait Until Tomorrow?. , 2014, , .		1
42	Data-driven modelling and probabilistic analysis of interactive software usage. <i>Journal of Logical and Algebraic Methods in Programming</i> , 2018, 100, 195-214.	0.5	1
43	Observable and Attention-Directing BDI Agents for Human-Autonomy Teaming. <i>Electronic Proceedings in Theoretical Computer Science</i> , EPTCS, 0, 348, 167-175.	0.8	1
44	Temporal Analytics for Software Usage Models. <i>Lecture Notes in Computer Science</i> , 2018, , 9-24.	1.3	1