Florentin Ipate

List of Publications by Year
in descending order

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92 papers	1,093 citations	567281 15 h-index	526287 27 g-index
92 all docs	92 docs citations	92 times ranked	352 citing authors

#	Article	IF	Citations
1	A model learning based testing approach for spiking neural P systems. Theoretical Computer Science, 2022, 924, 1-16.	0.9	1
2	Fundamental results for learning deterministic extended finite state machines from queries. Theoretical Computer Science, 2021, 862, 160-173.	0.9	2
3	kPWorkbench: A software suit for membrane systems. SoftwareX, 2020, 11, 100407.	2.6	8
4	Testing Identifiable Kernel P Systems Using an X-Machine Approach. Lecture Notes in Computer Science, 2019, , 142-159.	1.3	0
5	Search-based testing in membrane computing. Journal of Membrane Computing, 2019, 1, 241-250.	1.8	7
6	Kernel P systems: From modelling to verification and testing. Theoretical Computer Science, 2018, 724, 45-60.	0.9	12
7	Identifiable Kernel P Systems. Lecture Notes in Computer Science, 2018, , 130-141.	1.3	1
8	Modelling and Validating an Engineering Application in Kernel P Systems. Lecture Notes in Computer Science, 2018, , 183-195.	1.3	5
9	Binary Analysis based on Symbolic Execution and Reversible x86 Instructions. Fundamenta Informaticae, 2017, 153, 105-124.	0.4	4
10	Kernel P Systems and Stochastic P Systems for Modelling and Formal Verification of Genetic Logic Gates. Emergence, Complexity and Computation, 2017, , 661-675.	0.3	7
11	A Test Suite Generation Approach Based on EFSMs Using a Multi-objective Genetic Algorithm. , 2017, , .		5
12	Kernel P Systems Modelling, Testing and Verification - Sorting Case Study. Lecture Notes in Computer Science, 2017, , 233-250.	1.3	4
13	A Hybrid Test Generation Approach Based on Extended Finite State Machines. , 2016, , .		6
14	Testing based on identifiable P Systems using cover automata and X-machines. Information Sciences, 2016, 372, 565-578.	6.9	9
15	A unified integration and component testing approach from deterministic stream X-machine specifications. Formal Aspects of Computing, 2016, 28, 1-20.	1.8	11
16	Design and implementation of membrane controllers for trajectory tracking of nonholonomic wheeled mobile robots. Integrated Computer-Aided Engineering, 2015, 23, 15-30.	4.6	78
17	Agent-Based High-Performance Simulation of Biological Systems on the GPU. , 2015, , .		5
18	Qualitative and Quantitative Analysis of Systems and Synthetic Biology Constructs using P Systems. ACS Synthetic Biology, 2015, 4, 83-92.	3.8	18

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19	Model Learning and Test Generation Using Cover Automata. Computer Journal, 2015, 58, 1140-1159.	2.4	6
20	An Integrated Model Checking Toolset for Kernel P Systems. Lecture Notes in Computer Science, 2015, , 153-170.	1.3	11
21	QEAM: An Approximate Algorithm Using P Systems with Active Membranes. International Journal of Computers, Communications and Control, 2015, 10, 263.	1.8	13
22	A Modified Membrane-Inspired Algorithm Based on Particle Swarm Optimization for Mobile Robot Path Planning. International Journal of Computers, Communications and Control, 2015, 10, 732.	1.8	49
23	Conventional Verification for Unconventional Computing: a Genetic XOR Gate Example. Fundamenta Informaticae, 2014, 134, 97-110.	0.4	14
24	High Performance Simulations of Kernel P Systems. , 2014, , .		12
25	Crowd formal modelling and simulation: The Sa'yee ritual. , 2014, , .		6
26	Extended Simulation and Verification Platform for Kernel P Systems. Lecture Notes in Computer Science, 2014, , 158-178.	1.3	12
27	A Kernel P Systems Survey. Lecture Notes in Computer Science, 2014, , 1-9.	1.3	9
28	Model Checking Kernel P Systems. Lecture Notes in Computer Science, 2014, , 151-172.	1.3	16
29	Mutation Based Testing of P Systems. International Journal of Computers, Communications and Control, 2014, 4, 253.	1.8	7
30	Towards Automated Verification of P Systems Using Spin. , 2014, , 159-170.		1
31	Modelling and Analysis of E. coli Respiratory Chain. Emergence, Complexity and Computation, 2014, , 247-266.	0.3	0
32	3-Col problem modelling using simple kernel P systems. International Journal of Computer Mathematics, 2013, 90, 816-830.	1.8	38
33	Kernel P Systems: Applications and Implementations. Advances in Intelligent Systems and Computing, 2013, , 1081-1089.	0.6	10
34	Computational Properties of Two P Systems Solving the 3-colouring Problem. , 2012, , .		2
35	Learn and Test for Event-B â€“ A Rodin Plugin. Lecture Notes in Computer Science, 2012, , 361-364.	1.3	9
36	Model Learning and Test Generation for Event-B Decomposition. Lecture Notes in Computer Science, 2012, , 539-553.	1.3	5

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37	Learning finite cover automata from queries. Journal of Computer and System Sciences, 2012, 78, 221-244.	1.2	15
38	Evolutionary Design of a Simple Membrane System. Lecture Notes in Computer Science, 2012, , 203-214.	1.3	10
39	Formal Verification of P Systems with Active Membranes through Model Checking. Lecture Notes in Computer Science, 2012, , 215-225.	1.3	2
40	JSXM: A Tool for Automated Test Generation. Lecture Notes in Computer Science, 2012, , 352-366.	1.3	13
41	An Improved Test Generation Approach from Extended Finite State Machines Using Genetic Algorithms. Lecture Notes in Computer Science, 2012, , 293-307.	1.3	6
42	Towards Search-Based Testing for Event-B Models. , 2011, , .		0
43	An empirical evaluation of P system testing techniques. Natural Computing, 2011, 10, 151-165.	3.0	3
44	FORMAL VERIFICATION OF P SYSTEMS USING SPIN. International Journal of Foundations of Computer Science, 2011, 22, 133-142.	1.1	21
45	Using Genetic Algorithms and Model Checking for P Systems Automatic Design. Studies in Computational Intelligence, 2011, , 285-302.	0.9	5
46	Towards Automated Verification of P Systems Using Spin. International Journal of Natural Computing Research, 2011, 2, 1-12.	0.5	5
47	Test Data Generation for Event-B Models Using Genetic Algorithms. Communications in Computer and Information Science, 2011, , 76-90.	0.5	2
48	Test generation from P systems using model checking. The Journal of Logic and Algebraic Programming, 2010, 79, 350-362.	1.4	18
49	Bounded sequence testing from deterministic finite state machines. Theoretical Computer Science, 2010, 411, 1770-1784.	0.9	14
50	A particle swarm optimization based on P systems. , 2010, , .		10
51	Tuning P Systems for Solving the Broadcasting Problem. Lecture Notes in Computer Science, 2010, , 354-370.	1.3	3
52	An Improved Membrane Algorithm for Solving Time-Frequency Atom Decomposition. Lecture Notes in Computer Science, 2010, , 371-384.	1.3	14
53	Formal Verification and Testing Based on P Systems. Lecture Notes in Computer Science, 2010, , 54-65.	1.3	1
54	An Integrated Approach to P Systems Formal Verification. Lecture Notes in Computer Science, 2010, , 226-239.	1.3	8

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55	Testing Based on P Systems â€“ An Overview. Lecture Notes in Computer Science, 2010, , 3-6.	1.3	1
56	Automated Model Design Using Genetic Algorithms and Model Checking. , 2009, , .		5
57	Test Selection for Hierarchical and Communicating Finite State Machines. Computer Journal, 2009, 52, 334-347.	2.4	5
58	Finite state based testing of P systems. Natural Computing, 2009, 8, 833-846.	3.0	14
59	Testing Non-deterministic Stream X-machine Models and P systems. Electronic Notes in Theoretical Computer Science, 2009, 227, 113-126.	0.9	16
60	Solving satisfiability problems with membrane algorithms. , 2009, , .		12
61	On Testing P Systems. Lecture Notes in Computer Science, 2009, , 204-216.	1.3	7
62	Testing a deterministic implementation against a non-controllable non-deterministic stream X-machine. Formal Aspects of Computing, 2008, 20, 597-617.	1.8	4
63	Testing data processing-oriented systems from stream X-machine models. Theoretical Computer Science, 2008, 403, 176-191.	0.9	15
64	A Comparative Landscape Analysis of Fitness Functions for Search-Based Testing. , 2008, , .		5
65	Search-based Testing using State-based Fitness. , 2008, , .		2
66	Functional Search-based Testing from State Machines. , 2008, , .		33
67	State-based Testing is Functional Testing. , 2007, , .		1
68	Automatic State-Based Test Generation Using Genetic Algorithms. , 2007, , .		42
69	W-method for Hierarchical and Communicating Finite State Machines. , 2007, , .		3
70	Class Testing from State Diagrams Using Stream X-Machine Based Methods. Proceedings / Australian Software Engineering Conference, 2007, , .	0.0	1
71	State-based Testing is Functional Testing. , 2007, , .		0
72	Testing against a non-controllable stream X-machine using state counting. Theoretical Computer Science, 2006, 353, 291-316.	0.9	25

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73	Testing methods for X-machines: a review. Formal Aspects of Computing, 2006, 18, 3-30.	1.8	32
74	Bounded Sequence Testing from Non-deterministic Finite State Machines. Lecture Notes in Computer Science, 2006, , 55-70.	1.3	4
75	Using State Diagrams to Generate Unit Tests for Object-Oriented Systems. Lecture Notes in Computer Science, 2005, , 214-217.	1.3	0
76	On the Minimality of Finite Automata and Stream X-machines for Finite Languages. Computer Journal, 2005, 48, 157-167.	2.4	4
77	Complete deterministic stream X-machine testing. Formal Aspects of Computing, 2004, 16, 374-386.	1.8	16
78	Complete Test Generation for Extreme Programming. Lecture Notes in Computer Science, 2004, , 274-277.	1.3	1
79	Testing (Stream) X-machines. Applicable Algebra in Engineering, Communications and Computing, 2003, 14, 217-237.	0.5	2
80	On the Minimality of Stream X-machines. Computer Journal, 2003, 46, 295-306.	2.4	7
81	Eilenberg P Systems. Lecture Notes in Computer Science, 2003, , 43-57.	1.3	6
82	Testing Non-Deterministic X-Machines. Topics in Computer Mathematics, 2003, , 151-162.	0.0	0
83	Testing Conditions for Communicating Stream X-machine Systems. Formal Aspects of Computing, 2002, 13, 431-446.	1.8	16
84	An Integrated Refinement and Testing Method for Stream X-machines. Applicable Algebra in Engineering, Communications and Computing, 2002, 13, 67-91.	0.5	10
85	Testing Collaborative Agents Defined as Stream X-Machines with Distributed Grammars. Lecture Notes in Computer Science, 2001, , 296-305.	1.3	2
86	Generating Test Sets from Non-Deterministic Stream X-Machines. Formal Aspects of Computing, 2000, 12, 443-458.	1.8	33
87	Specification and testing using generalized machines: a presentation and a case study. Software Testing Verification and Reliability, 1998, 8, 61-81.	2.0	29
88	A method for refining and testing generalised machine specifications. International Journal of Computer Mathematics, 1998, 68, 197-219.	1.8	18
89	Correct Systems. Applied Computing, 1998, , .	0.3	64
90	An integration testing method that is proved to find all faults. International Journal of Computer Mathematics, 1997, 63, 159-178.	1.8	80

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91	Complete Functional Testing of Safety Critical Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1995, 28, 199-204.	0.4	11
92	Using an X-Machine to Model a Video Cassette Recorder. Current Issues in Electronic Modeling, 1995, , 141-160.	0.0	14