

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	An integration testing method that is proved to find all faults. International Journal of Computer Mathematics, 1997, 63, 159-178.	1.8	80
2	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
3	Correct Systems. Applied Computing, 1998, , .	0.3	64
4	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
5	Automatic State-Based Test Generation Using Genetic Algorithms. , 2007, , .		42
6	3-Col problem modelling using simple kernel P systems. International Journal of Computer Mathematics, 2013, 90, 816-830.	1.8	38
7	Generating Test Sets from Non-Deterministic Stream X-Machines. Formal Aspects of Computing, 2000, 12, 443-458.	1.8	33
8	Functional Search-based Testing from State Machines. , 2008, , .		33
9	Testing methods for X-machines: a review. Formal Aspects of Computing, 2006, 18, 3-30.	1.8	32
10	Specification and testing using generalized machines: a presentation and a case study. Software Testing Verification and Reliability, 1998, 8, 61-81.	2.0	29
11	Testing against a non-controllable stream X-machine using state counting. Theoretical Computer Science, 2006, 353, 291-316.	0.9	25
12	FORMAL VERIFICATION OF P SYSTEMS USING SPIN. International Journal of Foundations of Computer Science, 2011, 22, 133-142.	1.1	21
13	A method for refining and testing generalised machine specifications. International Journal of Computer Mathematics, 1998, 68, 197-219.	1.8	18
14	Test generation from P systems using model checking. The Journal of Logic and Algebraic Programming, 2010, 79, 350-362.	1.4	18
15	Qualitative and Quantitative Analysis of Systems and Synthetic Biology Constructs using P Systems. ACS Synthetic Biology, 2015, 4, 83-92.	3.8	18
16	Testing Conditions for Communicating Stream X-machine Systems. Formal Aspects of Computing, 2002, 13, 431-446.	1.8	16
17	Complete deterministic stream X-machine testing. Formal Aspects of Computing, 2004, 16, 374-386.	1.8	16
18	Testing Non-deterministic Stream X-machine Models and P systems. Electronic Notes in Theoretical Computer Science, 2009, 227, 113-126.	0.9	16

#	ARTICLE	IF	CITATIONS
19	Model Checking Kernel P Systems. Lecture Notes in Computer Science, 2014, , 151-172.	1.3	16
20	Testing data processing-oriented systems from stream X-machine models. Theoretical Computer Science, 2008, 403, 176-191.	0.9	15
21	Learning finite cover automata from queries. Journal of Computer and System Sciences, 2012, 78, 221-244.	1.2	15
22	Finite state based testing of P systems. Natural Computing, 2009, 8, 833-846.	3.0	14
23	Bounded sequence testing from deterministic finite state machines. Theoretical Computer Science, 2010, 411, 1770-1784.	0.9	14
24	Conventional Verification for Unconventional Computing: a Genetic XOR Gate Example. Fundamenta Informaticae, 2014, 134, 97-110.	0.4	14
25	Using an X-Machine to Model a Video Cassette Recorder. Current Issues in Electronic Modeling, 1995, , 141-160.	0.0	14
26	An Improved Membrane Algorithm for Solving Time-Frequency Atom Decomposition. Lecture Notes in Computer Science, 2010, , 371-384.	1.3	14
27	JXM: A Tool for Automated Test Generation. Lecture Notes in Computer Science, 2012, , 352-366.	1.3	13
28	QEAM: An Approximate Algorithm Using P Systems with Active Membranes. International Journal of Computers, Communications and Control, 2015, 10, 263.	1.8	13
29	Solving satisfiability problems with membrane algorithms. , 2009, , .		12
30	High Performance Simulations of Kernel P Systems. , 2014, , .		12
31	Kernel P systems: From modelling to verification and testing. Theoretical Computer Science, 2018, 724, 45-60.	0.9	12
32	Extended Simulation and Verification Platform for Kernel P Systems. Lecture Notes in Computer Science, 2014, , 158-178.	1.3	12
33	Complete Functional Testing of Safety Critical Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1995, 28, 199-204.	0.4	11
34	A unified integration and component testing approach from deterministic stream X-machine specifications. Formal Aspects of Computing, 2016, 28, 1-20.	1.8	11
35	An Integrated Model Checking Toolset for Kernel P Systems. Lecture Notes in Computer Science, 2015, , 153-170.	1.3	11
36	An Integrated Refinement and Testing Method for Stream X-machines. Applicable Algebra in Engineering, Communications and Computing, 2002, 13, 67-91.	0.5	10

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37	A particle swarm optimization based on P systems. , 2010, , .		10
38	Evolutionary Design of a Simple Membrane System. Lecture Notes in Computer Science, 2012, , 203-214.	1.3	10
39	Kernel P Systems: Applications and Implementations. Advances in Intelligent Systems and Computing, 2013, , 1081-1089.	0.6	10
40	Learn and Test for Event-B â€“ A Rodin Plugin. Lecture Notes in Computer Science, 2012, , 361-364.	1.3	9
41	Testing based on identifiable P Systems using cover automata and X-machines. Information Sciences, 2016, 372, 565-578.	6.9	9
42	A Kernel P Systems Survey. Lecture Notes in Computer Science, 2014, , 1-9.	1.3	9
43	kPWorkbench: A software suit for membrane systems. SoftwareX, 2020, 11, 100407.	2.6	8
44	An Integrated Approach to P Systems Formal Verification. Lecture Notes in Computer Science, 2010, , 226-239.	1.3	8
45	On the Minimality of Stream X-machines. Computer Journal, 2003, 46, 295-306.	2.4	7
46	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
47	Search-based testing in membrane computing. Journal of Membrane Computing, 2019, 1, 241-250.	1.8	7
48	Mutation Based Testing of P Systems. International Journal of Computers, Communications and Control, 2014, 4, 253.	1.8	7
49	On Testing P Systems. Lecture Notes in Computer Science, 2009, , 204-216.	1.3	7
50	Crowd formal modelling and simulation: The Sa'yee ritual. , 2014, , .		6
51	Model Learning and Test Generation Using Cover Automata. Computer Journal, 2015, 58, 1140-1159.	2.4	6
52	A Hybrid Test Generation Approach Based on Extended Finite State Machines. , 2016, , .		6
53	Eilenberg P Systems. Lecture Notes in Computer Science, 2003, , 43-57.	1.3	6
54	An Improved Test Generation Approach from Extended Finite State Machines Using Genetic Algorithms. Lecture Notes in Computer Science, 2012, , 293-307.	1.3	6

#	ARTICLE	IF	CITATIONS
55	A Comparative Landscape Analysis of Fitness Functions for Search-Based Testing. , 2008, , .		5
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	Model Learning and Test Generation for Event-B Decomposition. Lecture Notes in Computer Science, 2012, , 539-553.	1.3	5
59	Agent-Based High-Performance Simulation of Biological Systems on the GPU. , 2015, , .		5
60	A Test Suite Generation Approach Based on EFSMs Using a Multi-objective Genetic Algorithm. , 2017, , .		5
61	Modelling and Validating an Engineering Application in Kernel P Systems. Lecture Notes in Computer Science, 2018, , 183-195.	1.3	5
62	Using Genetic Algorithms and Model Checking for P Systems Automatic Design. Studies in Computational Intelligence, 2011, , 285-302.	0.9	5
63	Towards Automated Verification of P Systems Using Spin. International Journal of Natural Computing Research, 2011, 2, 1-12.	0.5	5
64	On the Minimality of Finite Automata and Stream X-machines for Finite Languages. Computer Journal, 2005, 48, 157-167.	2.4	4
65	Testing a deterministic implementation against a non-controllable non-deterministic stream X-machine. Formal Aspects of Computing, 2008, 20, 597-617.	1.8	4
66	Binary Analysis based on Symbolic Execution and Reversible x86 Instructions. Fundamenta Informaticae, 2017, 153, 105-124.	0.4	4
67	Bounded Sequence Testing from Non-deterministic Finite State Machines. Lecture Notes in Computer Science, 2006, , 55-70.	1.3	4
68	Kernel P Systems Modelling, Testing and Verification - Sorting Case Study. Lecture Notes in Computer Science, 2017, , 233-250.	1.3	4
69	W-method for Hierarchical and Communicating Finite State Machines. , 2007, , .		3
70	An empirical evaluation of P system testing techniques. Natural Computing, 2011, 10, 151-165.	3.0	3
71	Tuning P Systems for Solving the Broadcasting Problem. Lecture Notes in Computer Science, 2010, , 354-370.	1.3	3
72	Testing (Stream) X-machines. Applicable Algebra in Engineering, Communications and Computing, 2003, 14, 217-237.	0.5	2

#	ARTICLE	IF	CITATIONS
73	Search-based Testing using State-based Fitness. , 2008, , .		2
74	Computational Properties of Two P Systems Solving the 3-colouring Problem. , 2012, , .		2
75	Fundamental results for learning deterministic extended finite state machines from queries. Theoretical Computer Science, 2021, 862, 160-173.	0.9	2
76	Formal Verification of P Systems with Active Membranes through Model Checking. Lecture Notes in Computer Science, 2012, , 215-225.	1.3	2
77	Testing Collaborative Agents Defined as Stream X-Machines with Distributed Grammars. Lecture Notes in Computer Science, 2001, , 296-305.	1.3	2
78	Test Data Generation for Event-B Models Using Genetic Algorithms. Communications in Computer and Information Science, 2011, , 76-90.	0.5	2
79	State-based Testing is Functional Testing. , 2007, , .		1
80	Class Testing from State Diagrams Using Stream X-Machine Based Methods. Proceedings / Australian Software Engineering Conference, 2007, , .	0.0	1
81	Identifiable Kernel P Systems. Lecture Notes in Computer Science, 2018, , 130-141.	1.3	1
82	Complete Test Generation for Extreme Programming. Lecture Notes in Computer Science, 2004, , 274-277.	1.3	1
83	Formal Verification and Testing Based on P Systems. Lecture Notes in Computer Science, 2010, , 54-65.	1.3	1
84	Towards Automated Verification of P Systems Using Spin. , 2014, , 159-170.		1
85	Testing Based on P Systems – An Overview. Lecture Notes in Computer Science, 2010, , 3-6.	1.3	1
86	A model learning based testing approach for spiking neural P systems. Theoretical Computer Science, 2022, 924, 1-16.	0.9	1
87	Using State Diagrams to Generate Unit Tests for Object-Oriented Systems. Lecture Notes in Computer Science, 2005, , 214-217.	1.3	0
88	Towards Search-Based Testing for Event-B Models. , 2011, , .		0
89	Testing Identifiable Kernel P Systems Using an X-Machine Approach. Lecture Notes in Computer Science, 2019, , 142-159.	1.3	0
90	Testing Non-Deterministic X-Machines. Topics in Computer Mathematics, 2003, , 151-162.	0.0	0

#	ARTICLE	IF	CITATIONS
91	Modelling and Analysis of E. coli Respiratory Chain. Emergence, Complexity and Computation, 2014, , 247-266.	0.3	0
92	State-based Testing is Functional Testing. , 2007, , .		0