Paolo Milazzo

List of Publications by Year in descending order

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65 papers	630 citations	623188 14 h-index	713013 21 g-index
66 all docs	66 docs citations	66 times ranked	420 citing authors

#	Article	IF	Citations
1	Encoding Boolean networks into reaction systems for investigating causal dependencies in gene regulation. Theoretical Computer Science, 2021, 881, 3-24.	0.5	5
2	Characterization and computation of ancestors in reaction systems. Soft Computing, 2021, 25, 1683-1698.	2.1	1
3	Analysis of COVID-19 Data with PRISM: Parameter Estimation and SIR Modelling. Lecture Notes in Computer Science, 2021, , 123-133.	1.0	2
4	Exploiting Modularity of SOS Semantics to Define Quantitative Extensions of Reaction Systems. Lecture Notes in Computer Science, 2021, , 15-32.	1.0	3
5	A survey of gene regulatory networks modelling methods: from differential equations, to Boolean and qualitative bioinspired models. Journal of Membrane Computing, 2020, 2, 207-226.	1.0	33
6	Bayesian Sigmoid-Type Time Series Forecasting with Missing Data for Greenhouse Crops. Sensors, 2020, 20, 3246.	2.1	11
7	Prediction of Dynamical Properties of Biochemical Pathways with Graph Neural Networks. , 2020, , .		4
8	Studying Opacity of Reaction Systems through Formula Based Predictors*. Fundamenta Informaticae, 2019, 165, 303-319.	0.3	4
9	Formal modeling and analysis of safety-critical human multitasking. Innovations in Systems and Software Engineering, 2019, 15, 169-190.	1.6	14
10	Objective/MC: A high-level model checking language. Journal of Intelligent Information Systems, 2019, 52, 533-571.	2.8	0
11	Predictors for flat membrane systems. Theoretical Computer Science, 2018, 736, 79-102.	0.5	4
12	Generalized contexts for reaction systems: definition and study of dynamic causalities. Acta Informatica, 2018, 55, 227-267.	0.5	13
13	Modeling and Analysis of Human Memory Load in Multitasking Scenarios. , 2018, , .		3
14	Computing Preimages and Ancestors in Reaction Systems. Lecture Notes in Computer Science, 2018, , 23-35.	1.0	3
15	A Hybrid Automata model of social networking addiction. Journal of Logical and Algebraic Methods in Programming, 2018, 100, 215-229.	0.4	4
16	Multiset Patterns and Their Application toÂDynamic Causalities in Membrane Systems. Lecture Notes in Computer Science, 2018, , 54-73.	1.0	3
17	An Algorithm for Simulating Human Selective Attention. Lecture Notes in Computer Science, 2018, , 48-55.	1.0	5
18	An Executable Formal Framework for Safety-Critical Human Multitasking. Lecture Notes in Computer Science, 2018, , 54-69.	1.0	5

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19	Applications of P Systems in Population Biology and Ecology: The Cases of MPP and APP Systems. Lecture Notes in Computer Science, 2017, , 28-48.	1.0	0
20	Specialized Predictor for Reaction Systems with Context Properties. Fundamenta Informaticae, 2016, 147, 173-191.	0.3	18
21	Investigating dynamic causalities in reaction systems. Theoretical Computer Science, 2016, 623, 114-145.	0.5	33
22	Mathematical modeling of drug resistance due to KRAS mutation in colorectal cancer. Journal of Theoretical Biology, 2016, 389, 263-273.	0.8	31
23	Minimal probabilistic P systems for modelling ecological systems. Theoretical Computer Science, 2015, 608, 36-56.	0.5	12
24	Component identification in biochemical pathways. Theoretical Computer Science, 2015, 587, 104-124.	0.5	2
25	Attributed Probabilistic P Systems and Their Application to the Modelling of Social Interactions in Primates. Lecture Notes in Computer Science, 2015, , 176-191.	1.0	1
26	A Tool for the Modelling and Simulation of Ecological Systems Based on Grid Systems. Lecture Notes in Computer Science, 2015, , 198-212.	1.0	0
27	Identification of components in biochemical pathways: extensive application to SBML models. Natural Computing, 2014, 13, 351-365.	1.8	1
28	The role of deleterious mutations in the stability of hybridogenetic water frog complexes. BMC Evolutionary Biology, 2014, 14, 107.	3.2	8
29	Simulation of Spatial P system models. Theoretical Computer Science, 2014, 529, 11-45.	0.5	12
30	Compositional semantics and behavioural equivalences for reaction systems with restriction. Theoretical Computer Science, 2014, 551, 1-21.	0.5	11
31	P Systems with Endosomes. International Journal of Computers, Communications and Control, 2014, 4, 214.	1.2	1
32	Systolic Automata and P Systems. Lecture Notes in Computer Science, 2014, , 17-31.	1.0	0
33	Modelling Population Dynamics Using Grid Systems. Lecture Notes in Computer Science, 2014, , 172-189.	1.0	8
34	A Computational Formal Model of the Invasiveness of Eastern Species in European Water Frog Populations. Lecture Notes in Computer Science, 2014, , 329-344.	1.0	3
35	An Algorithm for the Identification of Components in Biochemical Pathways. Electronic Notes in Theoretical Computer Science, 2013, 299, 69-84.	0.9	2
36	Modular Verification of Qualitative Pathway Models with Fairness. Scientific Annals of Computer Science, 2013, 23, 75-117.	0.4	2

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37	A Compositional Semantics of Reaction Systems with Restriction. Lecture Notes in Computer Science, 2013, , 330-339.	1.0	3
38	On Conditions for Modular Verification in Systems of Synchronising Components. Fundamenta Informaticae, 2012, 120, 259-274.	0.3	3
39	Probabilistic model checking of biological systems with uncertain kinetic rates. Theoretical Computer Science, 2012, 419, 2-16.	0.5	15
40	Foundational aspects of multiscale modeling of biological systems with process algebras. Theoretical Computer Science, 2012, 431, 96-116.	0.5	10
41	Maximally Parallel Probabilistic Semantics for Multiset Rewriting. Fundamenta Informaticae, 2011, 112, 1-17.	0.3	13
42	Spatial Calculus of Looping Sequences. Theoretical Computer Science, 2011, 412, 5976-6001.	0.5	25
43	Spatial P systems. Natural Computing, 2011, 10, 3-16.	1.8	38
44	AN OVERVIEW ON OPERATIONAL SEMANTICS IN MEMBRANE COMPUTING. International Journal of Foundations of Computer Science, 2011, 22, 119-131.	0.8	15
45	Compositional semantics of spiking neural P systems. The Journal of Logic and Algebraic Programming, 2010, 79, 304-316.	1.4	14
46	Tumour suppression by immune system through stochastic oscillations. Journal of Theoretical Biology, 2010, 265, 336-345.	0.8	56
47	Modular Verification of Interactive Systems with an Application to Biology. Electronic Notes in Theoretical Computer Science, 2010, 268, 61-75.	0.9	4
48	A Formalism for the Description of Protein Interaction Dedicated to Jerzy Tiuryn on the Occasion of his 60th Birthday. Fundamenta Informaticae, 2010, 103, 1-29.	0.3	7
49	Membrane Systems Working in Generating and Accepting Modes: Expressiveness and Encodings. Lecture Notes in Computer Science, 2010, , 103-118.	1.0	1
50	P Systems with Transport and Diffusion Membrane Channels. Fundamenta Informaticae, 2009, 93, 17-31.	0.3	5
51	A METHODOLOGY FOR THE STOCHASTIC MODELING AND SIMULATION OF SYMPATRIC SPECIATION BY SEXUAL SELECTION. Journal of Biological Systems, 2009, 17, 349-376.	0.5	4
52	An intermediate language for the stochastic simulation of biological systems. Theoretical Computer Science, 2009, 410, 3085-3109.	0.5	3
53	Translating Stochastic CLS into Maude. Electronic Notes in Theoretical Computer Science, 2009, 227, 37-58.	0.9	3
54	Spatial Calculus of Looping Sequences. Electronic Notes in Theoretical Computer Science, 2009, 229, 21-39.	0.9	7

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55	Compositional semantics and behavioral equivalences for P Systems. Theoretical Computer Science, 2008, 395, 77-100.	0.5	23
56	Bisimulations in calculi modelling membranes. Formal Aspects of Computing, 2008, 20, 351-377.	1.4	26
57	Design and verification of long-running transactions in a timed framework. Science of Computer Programming, 2008, 73, 76-94.	1.5	18
58	The Calculus of Looping Sequences. , 2008, , 387-423.		26
59	Stochastic Calculus of Looping Sequences for the Modelling and Simulation of Cellular Pathways. Lecture Notes in Computer Science, 2008, , 86-113.	1.0	16
60	Bisimulation Congruences in the Calculus of Looping Sequences. Lecture Notes in Computer Science, 2006, , 93-107.	1.0	15
61	BoPi — A Distributed Machine for Experimenting Web Services Technologies. , 0, , .		4
62	Towards modular verification of pathways: fairness and assumptions. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 100, 63-81.	0.8	3
63	Application of a Semi-automatic Algorithm for Identification of Molecular Components in SBML Models. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 130, 43-52.	0.8	1
64	Aspects of multiscale modelling in a process algebra for biological systems. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 40, 54-69.	0.8	1
65	On the Interpretation of Delays in Delay Stochastic Simulation of Biological Systems. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 6, 17-29.	0.8	7