

# Paolo Milazzo

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Tumour suppression by immune system through stochastic oscillations. <i>Journal of Theoretical Biology</i> , 2010, 265, 336-345.	0.8	56
2	Spatial P systems. <i>Natural Computing</i> , 2011, 10, 3-16.	1.8	38
3	Investigating dynamic causalities in reaction systems. <i>Theoretical Computer Science</i> , 2016, 623, 114-145.	0.5	33
4	A survey of gene regulatory networks modelling methods: from differential equations, to Boolean and qualitative bioinspired models. <i>Journal of Membrane Computing</i> , 2020, 2, 207-226.	1.0	33
5	Mathematical modeling of drug resistance due to KRAS mutation in colorectal cancer. <i>Journal of Theoretical Biology</i> , 2016, 389, 263-273.	0.8	31
6	Bisimulations in calculi modelling membranes. <i>Formal Aspects of Computing</i> , 2008, 20, 351-377.	1.4	26
7	The Calculus of Looping Sequences. , 2008, , 387-423.		26
8	Spatial Calculus of Looping Sequences. <i>Theoretical Computer Science</i> , 2011, 412, 5976-6001.	0.5	25
9	Compositional semantics and behavioral equivalences for P Systems. <i>Theoretical Computer Science</i> , 2008, 395, 77-100.	0.5	23
10	Design and verification of long-running transactions in a timed framework. <i>Science of Computer Programming</i> , 2008, 73, 76-94.	1.5	18
11	Specialized Predictor for Reaction Systems with Context Properties. <i>Fundamenta Informaticae</i> , 2016, 147, 173-191.	0.3	18
12	Stochastic Calculus of Looping Sequences for the Modelling and Simulation of Cellular Pathways. <i>Lecture Notes in Computer Science</i> , 2008, , 86-113.	1.0	16
13	AN OVERVIEW ON OPERATIONAL SEMANTICS IN MEMBRANE COMPUTING. <i>International Journal of Foundations of Computer Science</i> , 2011, 22, 119-131.	0.8	15
14	Probabilistic model checking of biological systems with uncertain kinetic rates. <i>Theoretical Computer Science</i> , 2012, 419, 2-16.	0.5	15
15	Bisimulation Congruences in the Calculus of Looping Sequences. <i>Lecture Notes in Computer Science</i> , 2006, , 93-107.	1.0	15
16	Compositional semantics of spiking neural P systems. <i>The Journal of Logic and Algebraic Programming</i> , 2010, 79, 304-316.	1.4	14
17	Formal modeling and analysis of safety-critical human multitasking. <i>Innovations in Systems and Software Engineering</i> , 2019, 15, 169-190.	1.6	14
18	Maximally Parallel Probabilistic Semantics for Multiset Rewriting. <i>Fundamenta Informaticae</i> , 2011, 112, 1-17.	0.3	13

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19	Generalized contexts for reaction systems: definition and study of dynamic causalities. Acta Informatica, 2018, 55, 227-267.	0.5	13
20	Simulation of Spatial P system models. Theoretical Computer Science, 2014, 529, 11-45.	0.5	12
21	Minimal probabilistic P systems for modelling ecological systems. Theoretical Computer Science, 2015, 608, 36-56.	0.5	12
22	Compositional semantics and behavioural equivalences for reaction systems with restriction. Theoretical Computer Science, 2014, 551, 1-21.	0.5	11
23	Bayesian Sigmoid-Type Time Series Forecasting with Missing Data for Greenhouse Crops. Sensors, 2020, 20, 3246.	2.1	11
24	Foundational aspects of multiscale modeling of biological systems with process algebras. Theoretical Computer Science, 2012, 431, 96-116.	0.5	10
25	The role of deleterious mutations in the stability of hybridogenetic water frog complexes. BMC Evolutionary Biology, 2014, 14, 107.	3.2	8
26	Modelling Population Dynamics Using Grid Systems. Lecture Notes in Computer Science, 2014, , 172-189.	1.0	8
27	Spatial Calculus of Looping Sequences. Electronic Notes in Theoretical Computer Science, 2009, 229, 21-39.	0.9	7
28	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
29	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
30	P Systems with Transport and Diffusion Membrane Channels. Fundamenta Informaticae, 2009, 93, 17-31.	0.3	5
31	Encoding Boolean networks into reaction systems for investigating causal dependencies in gene regulation. Theoretical Computer Science, 2021, 881, 3-24.	0.5	5
32	An Algorithm for Simulating Human Selective Attention. Lecture Notes in Computer Science, 2018, , 48-55.	1.0	5
33	An Executable Formal Framework for Safety-Critical Human Multitasking. Lecture Notes in Computer Science, 2018, , 54-69.	1.0	5
34	BoPi & #8212; A Distributed Machine for Experimenting Web Services Technologies. , 0, , .		4
35	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
36	Modular Verification of Interactive Systems with an Application to Biology. Electronic Notes in Theoretical Computer Science, 2010, 268, 61-75.	0.9	4

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37	Predictors for flat membrane systems. Theoretical Computer Science, 2018, 736, 79-102.	0.5	4
38	A Hybrid Automata model of social networking addiction. Journal of Logical and Algebraic Methods in Programming, 2018, 100, 215-229.	0.4	4
39	Studying Opacity of Reaction Systems through Formula Based Predictors*. Fundamenta Informaticae, 2019, 165, 303-319.	0.3	4
40	Prediction of Dynamical Properties of Biochemical Pathways with Graph Neural Networks. , 2020, , .		4
41	An intermediate language for the stochastic simulation of biological systems. Theoretical Computer Science, 2009, 410, 3085-3109.	0.5	3
42	Translating Stochastic CLS into Maude. Electronic Notes in Theoretical Computer Science, 2009, 227, 37-58.	0.9	3
43	On Conditions for Modular Verification in Systems of Synchronising Components. Fundamenta Informaticae, 2012, 120, 259-274.	0.3	3
44	Modeling and Analysis of Human Memory Load in Multitasking Scenarios. , 2018, , .		3
45	Computing Preimages and Ancestors in Reaction Systems. Lecture Notes in Computer Science, 2018, , 23-35.	1.0	3
46	Multiset Patterns and Their Application to Dynamic Causalities in Membrane Systems. Lecture Notes in Computer Science, 2018, , 54-73.	1.0	3
47	Towards modular verification of pathways: fairness and assumptions. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 100, 63-81.	0.8	3
48	A Compositional Semantics of Reaction Systems with Restriction. Lecture Notes in Computer Science, 2013, , 330-339.	1.0	3
49	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
50	Exploiting Modularity of SOS Semantics to Define Quantitative Extensions of Reaction Systems. Lecture Notes in Computer Science, 2021, , 15-32.	1.0	3
51	An Algorithm for the Identification of Components in Biochemical Pathways. Electronic Notes in Theoretical Computer Science, 2013, 299, 69-84.	0.9	2
52	Component identification in biochemical pathways. Theoretical Computer Science, 2015, 587, 104-124.	0.5	2
53	Analysis of COVID-19 Data with PRISM: Parameter Estimation and SIR Modelling. Lecture Notes in Computer Science, 2021, , 123-133.	1.0	2
54	Modular Verification of Qualitative Pathway Models with Fairness. Scientific Annals of Computer Science, 2013, 23, 75-117.	0.4	2

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55	Identification of components in biochemical pathways: extensive application to SBML models. <i>Natural Computing</i> , 2014, 13, 351-365.	1.8	1
56	Characterization and computation of ancestors in reaction systems. <i>Soft Computing</i> , 2021, 25, 1683-1698.	2.1	1
57	Application of a Semi-automatic Algorithm for Identification of Molecular Components in SBML Models. <i>Electronic Proceedings in Theoretical Computer Science, EPTCS</i> , 0, 130, 43-52.	0.8	1
58	Aspects of multiscale modelling in a process algebra for biological systems. <i>Electronic Proceedings in Theoretical Computer Science, EPTCS</i> , 0, 40, 54-69.	0.8	1
59	P Systems with Endosomes. <i>International Journal of Computers, Communications and Control</i> , 2014, 4, 214.	1.2	1
60	Membrane Systems Working in Generating and Accepting Modes: Expressiveness and Encodings. <i>Lecture Notes in Computer Science</i> , 2010, , 103-118.	1.0	1
61	Attributed Probabilistic P Systems and Their Application to the Modelling of Social Interactions in Primates. <i>Lecture Notes in Computer Science</i> , 2015, , 176-191.	1.0	1
62	Objective/MC: A high-level model checking language. <i>Journal of Intelligent Information Systems</i> , 2019, 52, 533-571.	2.8	0
63	Systolic Automata and P Systems. <i>Lecture Notes in Computer Science</i> , 2014, , 17-31.	1.0	0
64	A Tool for the Modelling and Simulation of Ecological Systems Based on Grid Systems. <i>Lecture Notes in Computer Science</i> , 2015, , 198-212.	1.0	0
65	Applications of P Systems in Population Biology and Ecology: The Cases of MPP and APP Systems. <i>Lecture Notes in Computer Science</i> , 2017, , 28-48.	1.0	0