

# Simone Spolaor

## List of Publications by Year in descending order

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Version: 2024-02-01

32  
papers

299  
citations

1163117

8  
h-index

1058476

14  
g-index

37  
all docs

37  
docs citations

37  
times ranked

261  
citing authors

#	ARTICLE	IF	CITATIONS
1	SMGen: A Generator of Synthetic Models of Biochemical Reaction Networks. <i>Symmetry</i> , 2022, 14, 119.	2.2	6
2	Shaping and Dilating the Fitness Landscape for Parameter Estimation in Stochastic Biochemical Models. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 6671.	2.5	1
3	Screening for Combination Cancer Therapies With Dynamic Fuzzy Modeling and Multi-Objective Optimization. <i>Frontiers in Genetics</i> , 2021, 12, 617935.	2.3	5
4	The Impact of Representation on the Optimization of Marker Panels for Single-cell RNA Data. , 2021, , .		5
5	FiCoS: A fine-grained and coarse-grained GPU-powered deterministic simulator for biochemical networks. <i>PLoS Computational Biology</i> , 2021, 17, e1009410.	3.2	1
6	A comparison of multi-objective optimization algorithms to identify drug target combinations. , 2021, , .		0
7	Coupling Mechanistic Approaches and Fuzzy Logic to Model and Simulate Complex Systems. <i>IEEE Transactions on Fuzzy Systems</i> , 2020, 28, 1748-1759.	9.8	13
8	Fuzzy modeling and global optimization to predict novel therapeutic targets in cancer cells. <i>Bioinformatics</i> , 2020, 36, 2181-2188.	4.1	10
9	ACDC: Automated Cell Detection and Counting for Time-Lapse Fluorescence Microscopy. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 6187.	2.5	9
10	cuProCell: GPU-Accelerated Analysis of Cell Proliferation With Flow Cytometry Data. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2020, 24, 3173-3181.	6.3	2
11	On the automatic calibration of fully analogical spiking neuromorphic chips. , 2020, , .		2
12	pyFUME: a Python Package for Fuzzy Model Estimation. , 2020, , .		18
13	Which random is the best random? A study on sampling methods in Fourier surrogate modeling. , 2020, , .		3
14	Surfing on Fitness Landscapes: A Boost on Optimization by Fourier Surrogate Modeling. <i>Entropy</i> , 2020, 22, 285.	2.2	14
15	A Graph Theory Approach to Fuzzy Rule Base Simplification. <i>Communications in Computer and Information Science</i> , 2020, , 387-401.	0.5	9
16	Simpful: A User-Friendly Python Library for Fuzzy Logic. <i>International Journal of Computational Intelligence Systems</i> , 2020, 13, 1687.	2.7	32
17	Fourier Surrogate Models of Dilated Fitness Landscapes in Systems Biology : or how we learned to torture optimization problems until they confess. , 2020, , .		0
18	A Swarm Intelligence Approach to Avoid Local Optima in Fuzzy C-Means Clustering. , 2019, , .		18

#	ARTICLE	IF	CITATIONS
19	ProCell: Investigating cell proliferation with Swarm Intelligence. , 2019, , .		3
20	Biochemical parameter estimation vs. benchmark functions: A comparative study of optimization performance and representation design. Applied Soft Computing Journal, 2019, 81, 105494.	7.2	45
21	GenHap: a novel computational method based on genetic algorithms for haplotype assembly. BMC Bioinformatics, 2019, 20, 172.	2.6	26
22	Modeling cell proliferation in human acute myeloid leukemia xenografts. Bioinformatics, 2019, 35, 3378-3386.	4.1	8
23	High Performance Computing for Haplotyping: Models and Platforms. Lecture Notes in Computer Science, 2019, , 650-661.	1.3	1
24	A Novel Multi-objective Approach to Fuzzy Clustering. , 2019, , .		2
25	Computational Intelligence for Life Sciences. Fundamenta Informaticae, 2019, 171, 57-80.	0.4	5
26	Towards Human Cell Simulation. Lecture Notes in Computer Science, 2019, , 221-249.	1.3	6
27	Estimation of Kinetic Reaction Constants: Exploiting Reboot Strategies to Improve PSO's Performance. Lecture Notes in Computer Science, 2019, , 92-102.	1.3	0
28	Computational Intelligence for Parameter Estimation of Biochemical Systems. , 2018, , .		21
29	GPU-Powered Multi-Swarm Parameter Estimation of Biological Systems: A Master-Slave Approach. , 2018, , .		6
30	Efficient Simulation of Reaction Systems on Graphics Processing Units. Fundamenta Informaticae, 2017, 154, 307-321.	0.4	13
31	Reboot strategies in particle swarm optimization and their impact on parameter estimation of biochemical systems. , 2017, , .		11
32	Modeling Calcium Signaling in S. cerevisiae Highlights the Role and Regulation of the Calmodulin-Calcineurin Pathway in Response to Hypotonic Shock. Frontiers in Molecular Biosciences, 0, 9, .	3.5	1