Simone Spolaor

List of Publications by Year
in descending order

32	299	1163117 8	1058476 14
papers	citations	h-index	g-index

37	37	37	261
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	Simpful: A User-Friendly Python Library for Fuzzy Logic. International Journal of Computational Intelligence Systems, 2020, 13, 1687.	2.7	32
3	GenHap: a novel computational method based on genetic algorithms for haplotype assembly. BMC Bioinformatics, 2019, 20, 172.	2.6	26
4	Computational Intelligence for Parameter Estimation of Biochemical Systems. , 2018, , .		21
5	A Swarm Intelligence Approach to Avoid Local Optima in Fuzzy C-Means Clustering. , 2019, , .		18
6	pyFUME: a Python Package for Fuzzy Model Estimation. , 2020, , .		18
7	Surfing on Fitness Landscapes: A Boost on Optimization by Fourier Surrogate Modeling. Entropy, 2020, 22, 285.	2.2	14
8	Efficient Simulation of Reaction Systems on Graphics Processing Units. Fundamenta Informaticae, 2017, 154, 307-321.	0.4	13
9	Coupling Mechanistic Approaches and Fuzzy Logic to Model and Simulate Complex Systems. IEEE Transactions on Fuzzy Systems, 2020, 28, 1748-1759.	9.8	13
10	Reboot strategies in particle swarm optimization and their impact on parameter estimation of biochemical systems. , 2017, , .		11
11	Fuzzy modeling and global optimization to predict novel therapeutic targets in cancer cells. Bioinformatics, 2020, 36, 2181-2188.	4.1	10
12	ACDC: Automated Cell Detection and Counting for Time-Lapse Fluorescence Microscopy. Applied Sciences (Switzerland), 2020, 10, 6187.	2.5	9
13	A Graph Theory Approach to Fuzzy Rule Base Simplification. Communications in Computer and Information Science, 2020, , 387-401.	0.5	9
14	Modeling cell proliferation in human acute myeloid leukemia xenografts. Bioinformatics, 2019, 35, 3378-3386.	4.1	8
15	GPU-Powered Multi-Swarm Parameter Estimation of Biological Systems: A Master-Slave Approach. , 2018, , .		6
16	Towards Human Cell Simulation. Lecture Notes in Computer Science, 2019, , 221-249.	1.3	6
17	SMGen: A Generator of Synthetic Models of Biochemical Reaction Networks. Symmetry, 2022, 14, 119.	2.2	6
18	Computational Intelligence for Life Sciences. Fundamenta Informaticae, 2019, 171, 57-80.	0.4	5

#	Article	IF	Citations
19	Screening for Combination Cancer Therapies With Dynamic Fuzzy Modeling and Multi-Objective Optimization. Frontiers in Genetics, 2021, 12, 617935.	2.3	5
20	The Impact of Representation on the Optimization of Marker Panels for Single-cell RNA Data. , 2021, , .		5
21	ProCell: Investigating cell proliferation with Swarm Intelligence. , 2019, , .		3
22	Which random is the best random? A study on sampling methods in Fourier surrogate modeling. , 2020, , .		3
23	A Novel Multi-objective Approach to Fuzzy Clustering. , 2019, , .		2
24	cuProCell: GPU-Accelerated Analysis of Cell Proliferation With Flow Cytometry Data. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 3173-3181.	6.3	2
25	On the automatic calibration of fully analogical spiking neuromorphic chips. , 2020, , .		2
26	High Performance Computing for Haplotyping: Models and Platforms. Lecture Notes in Computer Science, 2019, , 650-661.	1.3	1
27	FiCoS: A fine-grained and coarse-grained GPU-powered deterministic simulator for biochemical networks. PLoS Computational Biology, 2021, 17, e1009410.	3.2	1
28	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
29	Shaping and Dilating the Fitness Landscape for Parameter Estimation in Stochastic Biochemical Models. Applied Sciences (Switzerland), 2022, 12, 6671.	2.5	1
30	A comparison of multi-objective optimization algorithms to identify drug target combinations. , 2021, , .		0
31	Estimation of Kinetic Reaction Constants: Exploiting Reboot Strategies to Improve PSOâ€™s Performance. Lecture Notes in Computer Science, 2019, , 92-102.	1.3	0
32	Fourier Surrogate Models of Dilated Fitness Landscapes in Systems Biology : or how we learned to torture optimization problems until they confess. , 2020, , .		0