Daniela Besozzi

List of Publications by Year in descending order

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56	1,250	17 h-index	32
papers	citations		g-index
60	60	60	1305
all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	USE-Net: Incorporating Squeeze-and-Excitation blocks into U-Net for prostate zonal segmentation of multi-institutional MRI datasets. Neurocomputing, 2019, 365, 31-43.	5.9	185
2	Fuzzy Self-Tuning PSO: A settings-free algorithm for global optimization. Swarm and Evolutionary Computation, 2018, 39, 70-85.	8.1	171
3	MedGA: A novel evolutionary method for image enhancement in medical imaging systems. Expert Systems With Applications, 2019, 119, 387-399.	7.6	85
4	Graphics processing units in bioinformatics, computational biology and systems biology. Briefings in Bioinformatics, 2017, 18, bbw058.	6.5	84
5	Computational Strategies for a System-Level Understanding of Metabolism. Metabolites, 2014, 4, 1034-1087.	2.9	54
6	Modeling and stochastic simulation of the Ras/cAMP/PKA pathway in the yeast Saccharomyces cerevisiae evidences a key regulatory function for intracellular guanine nucleotides pools. Journal of Biotechnology, 2008, 133, 377-385.	3.8	46
7	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
8	GPU-accelerated simulations of mass-action kinetics models with cupSODA. Journal of Supercomputing, 2014, 69, 17-24.	3.6	44
9	A novel framework for MR image segmentation and quantification by using MedGA. Computer Methods and Programs in Biomedicine, 2019, 176, 159-172.	4.7	43
10	Simpful: A User-Friendly Python Library for Fuzzy Logic. International Journal of Computational Intelligence Systems, 2020, 13, 1687.	2.7	32
11	Simulation of the Ras/cAMP/PKA pathway in budding yeast highlights the establishment of stable oscillatory states. Biotechnology Advances, 2012, 30, 99-107.	11.7	28
12	cuTauLeaping: A GPU-Powered Tau-Leaping Stochastic Simulator for Massive Parallel Analyses of Biological Systems. PLoS ONE, 2014, 9, e91963.	2.5	28
13	The impact of particles initialization in PSO: Parameter estimation as a case in point., 2015,,.		27
14	The role of feedback control mechanisms on the establishment of oscillatory regimes in the Ras/cAMP/PKA pathway in S. cerevisiae. Eurasip Journal on Bioinformatics and Systems Biology, 2012, 2012, 10.	1.4	26
15	GenHap: a novel computational method based on genetic algorithms for haplotype assembly. BMC Bioinformatics, 2019, 20, 172.	2.6	26
16	A Comparison of Genetic Algorithms and Particle Swarm Optimization for Parameter Estimation in Stochastic Biochemical Systems. Lecture Notes in Computer Science, 2009, , 116-127.	1.3	24
17	LASSIE: simulating large-scale models of biochemical systems on GPUs. BMC Bioinformatics, 2017, 18, 246.	2.6	22
18	Strategies for structuring interdisciplinary education in Systems Biology: an European perspective. Npj Systems Biology and Applications, 2016, 2, 16011.	3.0	21

#	Article	IF	Citations
19	Computational Intelligence for Parameter Estimation of Biochemical Systems. , 2018, , .		21
20	Estimating reaction constants in stochastic biological systems with a multi-swarm PSO running on GPUs. , 2012, , .		19
21	Proactive Particles in Swarm Optimization: A self-tuning algorithm based on Fuzzy Logic., 2015,,.		18
22	GPU-powered model analysis with PySB/cupSODA. Bioinformatics, 2017, 33, 3492-3494.	4.1	17
23	Analysis of single-cell RNA sequencing data based on autoencoders. BMC Bioinformatics, 2021, 22, 309.	2.6	15
24	Surfing on Fitness Landscapes: A Boost on Optimization by Fourier Surrogate Modeling. Entropy, 2020, 22, 285.	2.2	14
25	cupSODA: A CUDA-Powered Simulator of Mass-Action Kinetics. Lecture Notes in Computer Science, 2013, , 344-357.	1.3	13
26	Coupling Mechanistic Approaches and Fuzzy Logic to Model and Simulate Complex Systems. IEEE Transactions on Fuzzy Systems, 2020, 28, 1748-1759.	9.8	13
27	Massive Exploration of Perturbed Conditions of the Blood Coagulation Cascade through GPU Parallelization. BioMed Research International, 2014, 2014, 1-20.	1.9	10
28	Fuzzy modeling and global optimization to predict novel therapeutic targets in cancer cells. Bioinformatics, 2020, 36, 2181-2188.	4.1	10
29	ACDC: Automated Cell Detection and Counting for Time-Lapse Fluorescence Microscopy. Applied Sciences (Switzerland), 2020, 10, 6187.	2.5	9
30	Modeling cell proliferation in human acute myeloid leukemia xenografts. Bioinformatics, 2019, 35, 3378-3386.	4.1	8
31	BioSimWare: A Software for the Modeling, Simulation and Analysis of Biological Systems. Lecture Notes in Computer Science, 2010, , 119-143.	1.3	7
32	In vivo and in silico analysis of PCNA ubiquitylation in the activation of the Post Replication Repair pathway in S. cerevisiae. BMC Systems Biology, 2013, 7, 24.	3.0	7
33	The Multi-Level Mechanism of Action of a Pan-Ras Inhibitor Explains its Antiproliferative Activity on Cetuximab-Resistant Cancer Cells. Frontiers in Molecular Biosciences, 2021, 8, 625979.	3.5	7
34	Cycles and communicating classes in membrane systems and molecular dynamics. Theoretical Computer Science, 2007, 372, 242-266.	0.9	6
35	Reaction-Based Models of Biochemical Networks. Lecture Notes in Computer Science, 2016, , 24-34.	1.3	6
36	SMGen: A Generator of Synthetic Models of Biochemical Reaction Networks. Symmetry, 2022, 14, 119.	2.2	6

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37	ginSODA: massive parallel integration of stiff ODE systems on GPUs. Journal of Supercomputing, 2019, 75, 7844-7856.	3.6	5
38	Computational Intelligence for Life Sciences. Fundamenta Informaticae, 2019, 171, 57-80.	0.4	5
39	Screening for Combination Cancer Therapies With Dynamic Fuzzy Modeling and Multi-Objective Optimization. Frontiers in Genetics, 2021, 12, 617935.	2.3	5
40	The Impact of Representation on the Optimization of Marker Panels for Single-cell RNA Data., 2021,,.		5
41	If You Can't Beat It, Squash It: Simplify Global Optimization by Evolving Dilation Functions. , 2021, , .		5
42	GPU-powered and settings-free parameter estimation of biochemical systems. , 2016, , .		4
43	Gillespie's Stochastic Simulation Algorithm on MIC coprocessors. Journal of Supercomputing, 2017, 73, 676-686.	3.6	4
44	ProCell: Investigating cell proliferation with Swarm Intelligence., 2019,,.		3
45	Which random is the best random? A study on sampling methods in Fourier surrogate modeling. , 2020,		3
46	Efficient and Settings-Free Calibration of Detailed Kinetic Metabolic Models with Enzyme Isoforms Characterization. Lecture Notes in Computer Science, 2020, , 187-202.	1.3	3
47	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
48	On the automatic calibration of fully analogical spiking neuromorphic chips. , 2020, , .		2
49	Selected papers from the 15th and 16th international conference on Computational Intelligence Methods for Bioinformatics and Biostatistics. BMC Bioinformatics, 2021, 22, 90.	2.6	1
50	FiCoS: A fine-grained and coarse-grained GPU-powered deterministic simulator for biochemical networks. PLoS Computational Biology, 2021, 17, e1009410.	3.2	1
51	An Experimental and Computational Protocol to Study Cell Proliferation in Human Acute Myeloid Leukemia Xenografts. Methods in Molecular Biology, 2021, 2185, 241-258.	0.9	1
52	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
53	HyperBeta: characterizing the structural dynamics of proteins and self-assembling peptides. Scientific Reports, 2021, 11, 7783.	3.3	0
54	Editorial: Network-Oriented Approaches to Anticancer Drug Response. Frontiers in Bioengineering and Biotechnology, 2021, 9, 692369.	4.1	0

#	Article	IF	CITATIONS
55	A comparison of multi-objective optimization algorithms to identify drug target combinations. , 2021, , .		O
56	Fourier Surrogate Models of Dilated Fitness Landscapes in Systems Biology : or how we learned to torture optimization problems until they confess. , 2020, , .		0