Sergio Santander-JimÃ©nez

List of Publications by Year
in descending order

43 papers	202 citations	1162367 8 h-index	1199166 12 g-index
46 all docs	46 docs citations	46 times ranked	147 citing authors

#	Article	IF	Citations
1	Inter-Algorithm Multiobjective Cooperation for Phylogenetic Reconstruction on Amino Acid Data. IEEE Transactions on Cybernetics, 2022, 52, 3577-3591.	6.2	1
2	Parallel multi-objective optimization approaches for protein encoding. Journal of Supercomputing, 2022, 78, 5118-5148.	2.4	1
3	Exploiting multi-level parallel metaheuristics and heterogeneous computing to boost phylogenetics. Future Generation Computer Systems, 2022, 127, 208-224.	4.9	2
4	PhyloMissForest: a random forest framework to construct phylogenetic trees with missing data. BMC Genomics, 2022, 23, 377.	1.2	1
5	HEDAcc: FPGA-based Accelerator for High-order Epistasis Detection. , 2021, , .		3
6	Retargeting Tensor Accelerators for Epistasis Detection. IEEE Transactions on Parallel and Distributed Systems, 2021, 32, 2160-2174.	4.0	10
7	Fourth-Order Exhaustive Epistasis Detection for the xPU Era. , 2021, , .		2
8	A multi-objective optimization procedure for solving the high-order epistasis detection problem. Expert Systems With Applications, 2020, 142, 113000.	4.4	4
9	Parallel evolutionary computation for multiobjective gene interaction analysis. Journal of Computational Science, 2020, 40, 101068.	1.5	2
10	Exploring the Binary Precision Capabilities of Tensor Cores for Epistasis Detection. , 2020, , .		8
11	GPU acceleration of Fitchâ€™s parsimony on protein data: from Kepler to Turing. Journal of Supercomputing, 2020, 76, 9827-9853.	2.4	1
12	Accelerating 3-Way Epistasis Detection with CPU+GPU Processing. Lecture Notes in Computer Science, 2020, , 106-126.	1.0	7
13	Comparative Analysis of Intra-Algorithm Parallel Multiobjective Evolutionary Algorithms: Taxonomy Implications on Bioinformatics Scenarios. IEEE Transactions on Parallel and Distributed Systems, 2019, 30, 63-78.	4.0	4
14	Multi-objective memetic meta-heuristic algorithm for encoding the same protein with multiple genes. Expert Systems With Applications, 2019, 136, 83-93.	4.4	5
15	Comparative assessment of GPGPU technologies to accelerate objective functions: A case study on parsimony. Journal of Parallel and Distributed Computing, 2019, 126, 67-81.	2.7	4
16	Multi-objective protein encoding: Redefinition of the problem, new problem-aware operators, and approach based on Variable Neighborhood Search. Information Sciences, 2019, 500, 173-189.	4.0	2
17	Parallel computing in bioinformatics: a view from high-performance, heterogeneous, and cloud computing. Journal of Supercomputing, 2019, 75, 3369-3373.	2.4	5
18	A multiobjective adaptive approach for the inference of evolutionary relationships in protein-based scenarios. Information Sciences, 2019, 485, 281-300.	4.0	5

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19	Multi-Objective Artificial Bee Colony for designing multiple genes encoding the same protein. Applied Soft Computing Journal, 2019, 74, 90-98.	4.1	8
20	Analysis of MOEA/D Approaches for Inferring Ancestral Relationships. Lecture Notes in Computer Science, 2019, , 168-180.	1.0	0
21	Phylogenetic Reconstructions Using an Indicator-Based Bat Algorithm for Multicore Processors. , 2018, , .		0
22	Analysis of Scheduling Policies in Metaheuristics for Evolutionary Biology. , 2018, , .		0
23	Multiobjective Frog-Leaping Optimization for the Study of Ancestral Relationships in Protein Data. IEEE Transactions on Evolutionary Computation, 2018, 22, 879-893.	7.5	8
24	Accelerating the phylogenetic parsimony function on heterogeneous systems. Concurrency Computation Practice and Experience, 2017, 29, e4046.	1.4	3
25	Asynchronous Non-Generational Model to Parallelize Metaheuristics: A Bioinformatics Case Study. IEEE Transactions on Parallel and Distributed Systems, 2017, 28, 1825-1838.	4.0	7
26	Parallelism-based approaches in computational biology: a view from diverse case studies. Cluster Computing, 2017, 20, 1865-1867.	3.5	1
27	Using mixed mode programming to parallelize an indicator-based evolutionary algorithm for inferring multiobjective phylogenetic histories. Soft Computing, 2017, 21, 5601-5620.	2.1	4
28	Improving Multiobjective Phylogenetic Searches by Using a Parallel $$varepsilon $$-Dominance Based Adaptation of the Firefly Algorithm. Lecture Notes in Computer Science, 2017, , 384-396.	1.0	0
29	Parallel Multi-objective Optimization for High-Order Epistasis Detection. Lecture Notes in Computer Science, 2017, , 523-532.	1.0	1
30	Performance evaluation of dominance-based and indicator-based multiobjective approaches for phylogenetic inference. Information Sciences, 2016, 330, 293-314.	4.0	18
31	Parallelismâ€based technologies in bioinformatics and biomedicine: a view from diverse perspectives. Concurrency Computation Practice and Experience, 2015, 27, 5473-5475.	1.4	0
32	A hybrid approach to parallelize a fast nonâ€dominated sorting genetic algorithm for phylogenetic inference. Concurrency Computation Practice and Experience, 2015, 27, 702-734.	1.4	13
33	On the design of shared memory approaches to parallelize a multiobjective bee-inspired proposal for phylogenetic reconstruction. Information Sciences, 2015, 324, 163-185.	4.0	8
34	Parallel Multiobjective Metaheuristics for Inferring Phylogenies on Multicore Clusters. IEEE Transactions on Parallel and Distributed Systems, 2015, 26, 1678-1692.	4.0	12
35	Applying OpenMP-based parallel implementations of NSGA-II and SPEA2 to study phylogenetic relationships. , 2014, , .		3
36	Performance analysis of Multiobjective Artificial Bee Colony implementations for phylogenetic reconstruction. , 2014, , .		1

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37	Applying a multiobjective metaheuristic inspired by honey bees to phylogenetic inference. BioSystems, 2013, 114, 39-55.	0.9	21
38	A Multiobjective Proposal Based on the Firefly Algorithm for Inferring Phylogenies. Lecture Notes in Computer Science, 2013, , 141-152.	1.0	8
39	A comparative study on distance methods applied to a multiobjective firefly algorithm for phylogenetic inference. , 2013, , .		4
40	Parallelizing a multiobjective swarm intelligence approach to phylogenetics using hybrid MPI/OpenMP schemes. , 2013, , .		0
41	Inferring Phylogenetic Trees Using a Multiobjective Artificial Bee Colony Algorithm. Lecture Notes in Computer Science, 2012, , 144-155.	1.0	2
42	Evaluating the Performance of a Parallel Multiobjective Artificial Bee Colony Algorithm for Inferring Phylogenies on Multicore Architectures. , 2012, , .		2
43	Comparing Different Operators and Models to Improve a Multiobjective Artificial Bee Colony Algorithm for Inferring Phylogenies. Lecture Notes in Computer Science, 2012, , 187-200.	1.0	2