Alvaro Rubio-Largo

List of Publications by Year in Descending Order

46 papers	271 citations	9 h-index	14 g-index
48 ext. papers	317 ext. citations	4 avg, IF	3.47 L-index

#	Paper	IF	Citations
46	Data-Driven Computational Intelligence for Scientific Programming. *Scientific Programming*, **2019**, 2019, 1-4	1.4	2
45	A Pattern-Based Development Approach for Interaction Flow Modeling Language. *Scientific Programming*, **2019**, 2019, 1-15	1.4	1
44	. *IEEE Transactions on Evolutionary Computation*, **2019**, 23, 156-169	15.6	6
43	A Short-Term Data Based Water Consumption Prediction Approach. *Energies*, **2019**, 12, 2359	3.1	8
42	A Parallel Multiobjective Metaheuristic for Multiple Sequence Alignment. *Journal of Computational Biology*, **2018**, 25, 1009-1022	1.7	2
41	Searching for common patterns on protein sequences by means of a parallel hybrid honey-bee mating optimization algorithm. *Parallel Computing*, **2018**, 76, 1-17	1	2
40	A Characteristic-Based Framework for Multiple Sequence Aligners. *IEEE Transactions on Cybernetics*, **2018**, 48, 41-51	10.2	9
39	Multiobjective characteristic-based framework for very-large multiple sequence alignment. *Applied Soft Computing Journal*, **2018**, 69, 719-736	7.5	0
38	Swarm intelligence for optimizing the parameters of multiple sequence aligners. *Swarm and Evolutionary Computation*, **2018**, 42, 16-28	9.8	4
37	A hybrid MPI/OpenMP parallel implementation of NSGA-II for finding patterns in protein sequences. *Journal of Supercomputing*, **2017**, 73, 2285-2312	2.5	1
36	Using biological knowledge for multiple sequence aligner decision making. *Information Sciences*, **2017**, 420, 278-298	7.7	1
35	Reducing Alignment Time Complexity of Ultra-Large Sets of Sequences. *Journal of Computational Biology*, **2017**, 24, 1144-1154	1.7	0
34	Parallel Multi-objective Optimization for High-Order Epistasis Detection. *Lecture Notes in Computer Science*, **2017**, 523-532	0.9	1
33	A Comparative Study of Different Motif Occurrence Models Applied to a Hybrid Multiobjective Shuffle Frog Leaping Algorithm. *Computer Journal*, **2016**, 59, 384-402	1.3	1
32	Hybrid multiobjective artificial bee colony for multiple sequence alignment. *Applied Soft Computing Journal*, **2016**, 41, 157-168	7.5	31
31	. *IEEE Transactions on Evolutionary Computation*, **2016**, 20, 499-514	15.6	31
30	Multiobjective optimization algorithms for motif discovery in DNA sequences. *Genetic Programming and Evolvable Machines*, **2015**, 16, 167-209	2	3

29	A Parallel Multiobjective Approach based on Honey Bees for Traffic Grooming in Optical Networks. *Computer Journal*, **2015**, 58, 2171-2191	1.3	1
28	Multiobjective evolutionary algorithm based on decomposition for 3-objective optimization problems with objectives in different scales. *Soft Computing*, **2015**, 19, 157-166	3.5	9
27	Parallel H4MSA for Multiple Sequence Alignment **2015**,		4
26	Multiobjective swarm intelligence for the traffic grooming problem. *Computational Optimization and Applications*, **2015**, 60, 479-511	1.4	1
25	Finding Patterns in Protein Sequences by Using a Hybrid Multiobjective Teaching Learning Based Optimization Algorithm. *IEEE/ACM Transactions on Computational Biology and Bioinformatics*, **2015**, 12, 656-66	3	16
24	Performance assessment of multiobjective approaches in optical Traffic Grooming. *Journal of Network and Computer Applications*, **2014**, 41, 319-350	7.9	1
23	An improved multiobjective approach inspired by the flashing behaviour of fireflies for Traffic Grooming in optical WDM networks. *Applied Soft Computing Journal*, **2014**, 21, 617-636	7.5	3
22	A multiobjective evolutionary algorithm based on decomposition with normal boundary intersection for traffic grooming in optical networks. *Information Sciences*, **2014**, 289, 91-116	7.7	13
21	Designing a fine-grained parallel differential evolution with Pareto tournaments for solving an optical networking problem. *Concurrency Computation Practice and Experience*, **2014**, 26, 1908-1934	1.4	
20	Parallelizing and optimizing a hybrid differential evolution with Pareto tournaments for discovering motifs in DNA sequences. *Journal of Supercomputing*, **2014**, 70, 880-905	2.5	3
19	Convergence analysis of some multiobjective evolutionary algorithms when discovering motifs. *Soft Computing*, **2014**, 18, 853-869	3.5	4
18	. *IEEE Transactions on Evolutionary Computation*, **2013**, 17, 457-473	15.6	21
17	MOEA/D for traffic grooming in WDM optical networks **2013**,		1
16	A multiobjective approach based on artificial bee colony for the static routing and wavelength assignment problem. *Soft Computing*, **2013**, 17, 199-211	3.5	13
15	Routing Low-Speed Traffic Requests onto High-Speed Lightpaths by Using a Multiobjective Firefly Algorithm. *Lecture Notes in Computer Science*, **2013**, 12-21	0.9	3
14	Applying MOEAs to solve the static Routing and Wavelength Assignment problem in optical WDM networks. *Engineering Applications of Artificial Intelligence*, **2013**, 26, 1602-1619	7.2	14
13	A Multiobjective Approach Based on the Law of Gravity and Mass Interactions for Optimizing Networks. *Lecture Notes in Computer Science*, **2013**, 13-24	0.9	2
12	A Parallel Two-Level Multiobjective Artificial Bee Colony Approach for Traffic Grooming. *Lecture Notes in Computer Science*, **2013**, 404-411	0.9	

11	**2012**,		2
10	MO-ABC/DE - Multiobjective Artificial Bee Colony with Differential Evolution for unconstrained multiobjective optimization **2012**,		4
9	A Comparative Study on Multiobjective Swarm Intelligence for the Routing and Wavelength Assignment Problem. *IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews*, **2012**, 42, 1644-1655		14
8	Solving the reporting cells problem by using a parallel team of evolutionary algorithms. *Logic Journal of the IGPL*, **2012**, 20, 722-731	1	8
7	Using a Multiobjective OpenMP+MPI DE for the Static RWA Problem. *Lecture Notes in Computer Science*, **2012**, 224-231	0.9	
6	A Multiobjective Gravitational Search Algorithm Applied to the Static Routing and Wavelength Assignment Problem. *Lecture Notes in Computer Science*, **2011**, 41-50	0.9	5
5	Tackling the Static RWA Problem by Using a Multiobjective Artificial Bee Colony Algorithm. *Lecture Notes in Computer Science*, **2011**, 364-371	0.9	4
4	Solving the Routing and Wavelength Assignment Problem in WDM Networks by Using a Multiobjective Variable Neighborhood Search Algorithm. *Advances in Intelligent and Soft Computing* , **2010**, 47-54		7
3	**2010**,		12
2	A Parallel Cooperative Evolutionary Strategy for Solving the Reporting Cells Problem. *Advances in Intelligent and Soft Computing*, **2010**, 71-78		1
1	Improving Optical WDM Networks by Using a Multi-core Version of Differential Evolution with Pareto Tournaments. *Advances in Intelligent and Soft Computing*, **2010**, 629-636		2