Carlos A Brizuela

List of Publications by Year
in descending order

64 papers	1,107 citations	566801 15 h-index	414034 32 g-index
65 all docs	65 docs citations	65 times ranked	1139 citing authors

#	Article	IF	Citations
1	Clustering-based multipopulation approaches in MOEA/D for many-objective problems. Computational Optimization and Applications, 2022, 81, 789-828.	0.9	3
2	A cooperative coevolutionary algorithm approach to the no-wait job shop scheduling problem. Expert Systems With Applications, 2022, 194, 116498.	4.4	7
3	Do deep learning models make a difference in the identification of antimicrobial peptides?. Briefings in Bioinformatics, 2022, 23, .	3.2	17
4	Alignment-Free Antimicrobial Peptide Predictors: Improving Performance by a Thorough Analysis of the Largest Available Data Set. Journal of Chemical Information and Modeling, 2021, 61, 3141-3157.	2.5	27
5	Improving Structure-Based Virtual Screening with Ensemble Docking and Machine Learning. Journal of Chemical Information and Modeling, 2021, 61, 5362-5376.	2.5	27
6	Smoothed Spherical Truncation based on Fuzzy Membership Functions: Application to the Molecular Encoding. Journal of Computational Chemistry, 2020, 41, 203-217.	1.5	4
7	Automatic construction of molecular similarity networks for visual graph mining in chemical space of bioactive peptides: an unsupervised learning approach. Scientific Reports, 2020, 10, 18074.	1.6	29
8	Relevant Features of Polypharmacologic Human-Target Antimicrobials Discovered by Machine-Learning Techniques. Pharmaceuticals, 2020, 13, 204.	1.7	1
9	An automatic representation of peptides for effective antimicrobial activity classification. Computational and Structural Biotechnology Journal, 2020, 18, 455-463.	1.9	8
10	An overview on evolutionary algorithms for manyâ€objective optimization problems. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2019, 9, e1267.	4.6	9
11	A combination of two simple decoding strategies for the no-wait job shop scheduling problem. , 2019, , .		2
12	Graph-based data integration from bioactive peptide databases of pharmaceutical interest: toward an organized collection enabling visual network analysis. Bioinformatics, 2019, 35, 4739-4747.	1.8	39
13	Molecular modeling simulation studies reveal new potential inhibitors against HPV E6 protein. PLoS ONE, 2019, 14, e0213028.	1.1	31
14	Heterologous Machine Learning for the Identification of Antimicrobial Activity in Human-Targeted Drugs. Molecules, 2019, 24, 1258.	1.7	12
15	Scoring of Side-Chain Packings: An Analysis of Weight Factors and Molecular Dynamics Structures. Journal of Chemical Information and Modeling, 2018, 58, 443-452.	2.5	0
16	Synthesis of a Scannable Pattern for 3D Cubic Antenna Arrays. IETE Technical Review (Institution of) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	2.1	3
17	Optimal selection of molecular descriptors for antimicrobial peptides classification: an evolutionary feature weighting approach. BMC Genomics, 2018, 19, 672.	1.2	36
18	The Maximum Uniform Message Distribution Problem. IEEE Access, 2018, 6, 28447-28466.	2.6	1

#	Article	IF	Citations
19	Protein side-chain packing problem: is there still room for improvement?. Briefings in Bioinformatics, 2017, 18, bbw079.	3.2	10
20	Feature weighting for antimicrobial peptides classification: A multi-objective evolutionary approach. , 2017, , .		3
21	Systematic Identification of Machine-Learning Models Aimed to Classify Critical Residues for Protein Function from Protein Structure. Molecules, 2017, 22, 1673.	1.7	8
22	An efficient genetic algorithm for setup time minimization in PCB assembly. International Journal of Advanced Manufacturing Technology, 2015, 77, 973-989.	1.5	4
23	Multi-objective routing and wavelength converter allocation under uncertain traffic. Optical Switching and Networking, 2015, 16, 1-20.	1.2	7
24	Impact of seasonal changes on fungal diversity of a semi-arid ecosystem revealed by 454 pyrosequencing. FEMS Microbiology Ecology, 2015, 91, .	1.3	60
25	Clustering Based Parallel Many-Objective Evolutionary Algorithms Using the Shape of the Objective Vectors. Lecture Notes in Computer Science, 2015, , 50-64.	1.0	3
26	A cascade evolutionary algorithm for the bodyguard allocation problem. Applied Soft Computing Journal, 2015, 37, 643-651.	4.1	1
27	Dimensionality Reduction in Many-objective Problems Combining PCA and Spectral Clustering. , 2015, , .		1
28	An Experimental Analysis of the Performance of SideChain Packing Algorithms. , 2015, , .		1
29	A Simple Extension to the CMASA Method for the Prediction of Catalytic Residues in the Presence of Single Point Mutations. PLoS ONE, 2014, 9, e108513.	1.1	2
30	A genetic algorithm for the routing of droplets in DMFB: Preliminary results. , 2014, , .		7
31	A survey on multi-objective evolutionary algorithms for many-objective problems. Computational Optimization and Applications, 2014, 58, 707.	0.9	196
32	Improving an evolutionary multi-objective algorithm for the biclustering of gene expression data. , 2013, , .		3
33	Improving the design of sequences for DNA computing: A multiobjective evolutionary approach. Applied Soft Computing Journal, 2013, 13, 4594-4607.	4.1	18
34	A multi-objective approach for routing and wavelength converter allocation under uncertainty. , 2013, , .		1
35	A comparison of NSGA-II, DEMO, and EM-MOPSO for the multi-objective design of concentric rings antenna arrays. Journal of Electromagnetic Waves and Applications, 2013, 27, 1100-1113.	1.0	28
36	Routing and wavelength converter allocation in WDM networks: a multi-objective evolutionary optimization approach. Photonic Network Communications, 2011, 22, 23-45.	1.4	15

#	Article	IF	Citations
37	An Enhanced MOGWW for the bi-objective Quadratic Assignment Problem. International Journal of Computational Intelligence Systems, 2011, 4, 530-549.	1.6	5
38	An Enhanced MOGWW for the bi-objective Quadratic Assignment Problem. International Journal of Computational Intelligence Systems, 2011, 4, 530.	1.6	0
39	Evolutionary Learning of Dynamic Naive Bayesian Classifiers. Journal of Automated Reasoning, 2010, 45, 21-37.	1.1	20
40	Idle regulation in non-clairvoyant scheduling of parallel jobs. Discrete Applied Mathematics, 2009, 157, 364-376.	0.5	16
41	Optimal wavelength converter allocation. , 2009, , .		1
42	A comparative analysis of the performance of GA, PSO and DE for circular antenna arrays. Digest / IEEE Antennas and Propagation Society International Symposium, 2009, , .	0.0	14
43	Wavelength Converter Allocation in Optical Networks: An Evolutionary Multi-objective Optimization Approach. , 2009, , .		3
44	A COMPARISON OF GENETIC ALGORITHMS, PARTICLE SWARM OPTIMIZATION AND THE DIFFERENTIAL EVOLUTION METHOD FOR THE DESIGN OF SCANNABLE CIRCULAR ANTENNA ARRAYS. Progress in Electromagnetics Research B, 2009, 13, 171-186.	0.7	190
45	Design of electronically steerable linear arrays with evolutionary algorithms. Applied Soft Computing Journal, 2008, 8, 46-54.	4.1	24
46	Evolutionary multiâ€objective design of nonâ€uniform circular phased arrays. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2008, 27, 551-566.	0.5	19
47	A team of genetic algorithms for the multiple sequence alignment problem: preliminary results. , 2007, , .		0
48	An experimental study of the multi-objective Go with the Winners algorithm on the biobjective QAP with correlated flow matrices. , 2007, , .		3
49	Differential evolution algorithm applied to sidelobe level reduction on a planar array. AEU - International Journal of Electronics and Communications, 2007, 61, 286-290.	1.7	50
50	Sequencing by hybridization: an enhanced crossover operator forÂaÂhybrid genetic algorithm. Journal of Heuristics, 2007, 13, 209-225.	1.1	5
51	A trade-off curve computation for linear antenna arrays using an evolutionary multi-objective approach. Soft Computing, 2006, 10, 125-131.	2.1	17
52	Parallel multiple sequence alignment with local phylogeny search by simulated annealing. , 2006, , .		7
53	ILS-Perturbation Based on Local Optima Structure for the QAP Problem. Lecture Notes in Computer Science, 2006, , 404-414.	1.0	1
54	A multi-objective approach in the linear antenna array design. AEU - International Journal of Electronics and Communications, 2005, 59, 205-212.	1.7	74

#	Article	IF	Citations
55	Multi-objective Go with the Winners Algorithm: A Preliminary Study. Lecture Notes in Computer Science, 2005, , 206-220.	1.0	5
56	A Genetic Algorithm for the Shortest Common Superstring Problem. Lecture Notes in Computer Science, 2004, , 851-860.	1.0	0
57	FAIR SCHEDULING WITH DYNAMIC RESOURCE ALLOCATION IN CDMA/GPS SYSTEM FOR IP-MULTIMEDIA WIRELESS NETWORKS. Journal of Circuits, Systems and Computers, 2004, 13, 253-269.	1.0	2
58	An Improved Genetic Algorithm for the Sequencing by Hybridization Problem. Lecture Notes in Computer Science, 2004, , 11-20.	1.0	7
59	A Genetic Algorithm for the Shortest Common Superstring Problem. Lecture Notes in Computer Science, 2004, , 1305-1306.	1.0	1
60	An Experimental Comparison of Two Different Encoding Schemes for the Location of Base Stations in Cellular Networks. Lecture Notes in Computer Science, 2003, , 176-186.	1.0	1
61	Experimental Genetic Operators Analysis for the Multi-objective Permutation Flowshop. Lecture Notes in Computer Science, 2003, , 578-592.	1.0	8
62	Robustness and diversity in genetic algorithms for a complex combinatorial optimization problem. International Journal of Systems Science, 2001, 32, 1161-1168.	3.7	2
63	An experimental comparison of two approximation algorithms for the shortest common superstring problem. , 0, , .		4
64	Multiple circle detection in images: a simple evolutionary algorithm approach and a new benchmark of images. Pattern Analysis and Applications, 0, , 1.	3.1	4