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	A survey on multi-objective evolutionary algorithms for many-objective problems. Computational Optimization and Applications, 2014, 58, 707.	0.9	196
2	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
3	A multi-objective approach in the linear antenna array design. AEU - International Journal of Electronics and Communications, 2005, 59, 205-212.	1.7	74
4	Impact of seasonal changes on fungal diversity of a semi-arid ecosystem revealed by 454 pyrosequencing. FEMS Microbiology Ecology, 2015, 91, .	1.3	60
5	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
6	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
7	Optimal selection of molecular descriptors for antimicrobial peptides classification: an evolutionary feature weighting approach. BMC Genomics, 2018, 19, 672.	1.2	36
8	Molecular modeling simulation studies reveal new potential inhibitors against HPV E6 protein. PLoS ONE, 2019, 14, e0213028.	1.1	31
9	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
10	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
11	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
12	Improving Structure-Based Virtual Screening with Ensemble Docking and Machine Learning. Journal of Chemical Information and Modeling, 2021, 61, 5362-5376.	2.5	27
13	Design of electronically steerable linear arrays with evolutionary algorithms. Applied Soft Computing Journal, 2008, 8, 46-54.	4.1	24
14	Evolutionary Learning of Dynamic Naive Bayesian Classifiers. Journal of Automated Reasoning, 2010, 45, 21-37.	1.1	20
15	Evolutionary multi€objective design of non€uniform circular phased arrays. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2008, 27, 551-566.	0.5	19
16	Improving the design of sequences for DNA computing: A multiobjective evolutionary approach. Applied Soft Computing Journal, 2013, 13, 4594-4607.	4.1	18
17	A trade-off curve computation for linear antenna arrays using an evolutionary multi-objective approach. Soft Computing, 2006, 10, 125-131.	2.1	17
18	Do deep learning models make a difference in the identification of antimicrobial peptides?. Briefings in Bioinformatics, 2022, 23, .	3.2	17

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19	Idle regulation in non-clairvoyant scheduling of parallel jobs. Discrete Applied Mathematics, 2009, 157, 364-376.	0.5	16
20	Routing and wavelength converter allocation in WDM networks: a multi-objective evolutionary optimization approach. Photonic Network Communications, 2011, 22, 23-45.	1.4	15
21	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
22	Heterologous Machine Learning for the Identification of Antimicrobial Activity in Human-Targeted Drugs. Molecules, 2019, 24, 1258.	1.7	12
23	Protein side-chain packing problem: is there still room for improvement?. Briefings in Bioinformatics, 2017, 18, bbw079.	3.2	10
24	An overview on evolutionary algorithms for manyâ€objective optimization problems. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2019, 9, e1267.	4.6	9
25	Systematic Identification of Machine-Learning Models Aimed to Classify Critical Residues for Protein Function from Protein Structure. Molecules, 2017, 22, 1673.	1.7	8
26	An automatic representation of peptides for effective antimicrobial activity classification. Computational and Structural Biotechnology Journal, 2020, 18, 455-463.	1.9	8
27	Experimental Genetic Operators Analysis for the Multi-objective Permutation Flowshop. Lecture Notes in Computer Science, 2003, , 578-592.	1.0	8
28	Parallel multiple sequence alignment with local phylogeny search by simulated annealing. , 2006, , .		7
29	A genetic algorithm for the routing of droplets in DMFB: Preliminary results. , 2014, , .		7
30	Multi-objective routing and wavelength converter allocation under uncertain traffic. Optical Switching and Networking, 2015, 16, 1-20.	1.2	7
31	An Improved Genetic Algorithm for the Sequencing by Hybridization Problem. Lecture Notes in Computer Science, 2004, , 11-20.	1.0	7
32	A cooperative coevolutionary algorithm approach to the no-wait job shop scheduling problem. Expert Systems With Applications, 2022, 194, 116498.	4.4	7
33	Multi-objective Go with the Winners Algorithm: A Preliminary Study. Lecture Notes in Computer Science, 2005, , 206-220.	1.0	5
34	Sequencing by hybridization: an enhanced crossover operator forÂaÂhybrid genetic algorithm. Journal of Heuristics, 2007, 13, 209-225.	1.1	5
35	An Enhanced MOGWW for the bi-objective Quadratic Assignment Problem. International Journal of Computational Intelligence Systems, 2011, 4, 530-549.	1.6	5
36	An experimental comparison of two approximation algorithms for the shortest common superstring problem. , 0, , .		4

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37	An efficient genetic algorithm for setup time minimization in PCB assembly. International Journal of Advanced Manufacturing Technology, 2015, 77, 973-989.	1.5	4
38	Smoothed Spherical Truncation based on Fuzzy Membership Functions: Application to the Molecular Encoding. Journal of Computational Chemistry, 2020, 41, 203-217.	1.5	4
39	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
40	An experimental study of the multi-objective Go with the Winners algorithm on the biobjective QAP with correlated flow matrices. , 2007, , .		3
41	Wavelength Converter Allocation in Optical Networks: An Evolutionary Multi-objective Optimization Approach. , 2009, , .		3
42	Improving an evolutionary multi-objective algorithm for the biclustering of gene expression data. , 2013, , .		3
43	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
44	Feature weighting for antimicrobial peptides classification: A multi-objective evolutionary approach. , 2017, , .		3
45	Synthesis of a Scannable Pattern for 3D Cubic Antenna Arrays. IETE Technical Review (Institution of) Tj ETQq1 1 0.784314 rgBT /Over	2.1	3
46	Clustering-based multipopulation approaches in MOEA/D for many-objective problems. Computational Optimization and Applications, 2022, 81, 789-828.	0.9	3
47	Robustness and diversity in genetic algorithms for a complex combinatorial optimization problem. International Journal of Systems Science, 2001, 32, 1161-1168.	3.7	2
48	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
49	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
50	A combination of two simple decoding strategies for the no-wait job shop scheduling problem. , 2019, , .		2
51	Optimal wavelength converter allocation. , 2009, , .		1
52	A multi-objective approach for routing and wavelength converter allocation under uncertainty. , 2013, , .		1
53	A cascade evolutionary algorithm for the bodyguard allocation problem. Applied Soft Computing Journal, 2015, 37, 643-651.	4.1	1
54	Dimensionality Reduction in Many-objective Problems Combining PCA and Spectral Clustering. , 2015, , .		1

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55	An Experimental Analysis of the Performance of SideChain Packing Algorithms. , 2015, , .		1
56	The Maximum Uniform Message Distribution Problem. IEEE Access, 2018, 6, 28447-28466.	2.6	1
57	Relevant Features of Polypharmacologic Human-Target Antimicrobials Discovered by Machine-Learning Techniques. Pharmaceuticals, 2020, 13, 204.	1.7	1
58	ILS-Perturbation Based on Local Optima Structure for the QAP Problem. Lecture Notes in Computer Science, 2006, , 404-414.	1.0	1
59	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
60	A Genetic Algorithm for the Shortest Common Superstring Problem. Lecture Notes in Computer Science, 2004, , 1305-1306.	1.0	1
61	A Genetic Algorithm for the Shortest Common Superstring Problem. Lecture Notes in Computer Science, 2004, , 851-860.	1.0	0
62	A team of genetic algorithms for the multiple sequence alignment problem: preliminary results. , 2007, , .		0
63	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
64	An Enhanced MOGWW for the bi-objective Quadratic Assignment Problem. International Journal of Computational Intelligence Systems, 2011, 4, 530.	1.6	0