Roberto Carballedo

List of Publications by Year
in descending order

34 papers	526 citations	933264 10 h-index	839398 18 g-index
37 all docs	37 docs citations	37 times ranked	593 citing authors

#	ARTICLE	IF	CITATIONS
1	An improved discrete bat algorithm for symmetric and asymmetric Traveling Salesman Problems. Engineering Applications of Artificial Intelligence, 2016, 48, 59-71.	4.3	261
2	Good practice proposal for the implementation, presentation, and comparison of metaheuristics for solving routing problems. Neurocomputing, 2018, 271, 2-8.	3.5	43
3	An Evolutionary Discrete Firefly Algorithm with Novel Operators for Solving the Vehicle Routing Problem with Time Windows. Studies in Computational Intelligence, 2016, , 21-41.	0.7	26
4	Skills Requirements for the European Machine Tool Sector Emerging from Its Digitalization. Metals, 2020, 10, 1665.	1.0	21
5	A multi-crossover and adaptive island based population algorithm for solving routing problems. Journal of Zhejiang University: Science C, 2013, 14, 815-821.	0.7	19
6	Crossover versus Mutation: A Comparative Analysis of the Evolutionary Strategy of Genetic Algorithms Applied to Combinatorial Optimization Problems. Scientific World Journal, The, 2014, 2014, 1-22.	0.8	16
7	Focusing on the Golden Ball Metaheuristic: An Extended Study on a Wider Set of Problems. Scientific World Journal, The, 2014, 2014, 1-17.	0.8	14
8	Ubiquitous Connected Train Based on Train-to-Ground and Intra-Wagon Communications Capable of Providing on Trip Customized Digital Services for Passengers. Sensors, 2014, 14, 8003-8025.	2.1	14
9	An Adaptive Multi-Crossover Population Algorithm for Solving Routing Problems. Studies in Computational Intelligence, 2014, , 113-124.	0.7	14
10	Smart Bandwidth Assignation in an Underlay Cellular Network for Internet of Vehicles. Sensors, 2017, 17, 2217.	2.1	13
11	On Efficiently Solving the Vehicle Routing Problem with Time Windows Using the Bat Algorithm with Random Reinsertion Operators. Studies in Computational Intelligence, 2018, , 69-89.	0.7	12
12	On the influence of using initialization functions on genetic algorithms solving combinatorial optimization problems: A first study on the TSP. , 2014, , .		11
13	Analysis of the suitability of using blind crossover operators in genetic algorithms for solving routing problems. , 2013, , .		10
14	Towards a Broadband Communications Manager to regulate train-to-earth communications. , 2010, , .		7
15	Discussion related to â€œWang, C.-H., & Lu, J.-Z. (2009). A hybrid genetic algorithm that optimizes capacitated vehicle routing problem. Expert Systems with Applications, 36(2), 2921â€"2936â€• Expert Systems With Applications, 2013, 40, 5425-5426.	4.4	7
16	Comparison between Golden Ball Meta-heuristic, Evolutionary Simulated Annealing and Tabu Search for the Traveling Salesman Problem. , 2016, , .		7
17	An Asymmetric Multiple Traveling Salesman Problem with Backhauls to solve a Dial-a-Ride problem. , 2015, , .		5
18	Wireless Communications Architecture for â€œTrain-to-Earthâ€•Communication in the Railway Industry. Lecture Notes in Computer Science, 2009, , 626-633.	1.0	5

#	Article	IF	Citations
19	Simultation Tool based on a Memetic Algorithm to Solve a Real Instance of a Dynamic TSP. , 2012, , .		3
20	A backup system based on a decentralized positioning system for managing the railway traffic in emergency situations. , 2010, , .		2
21	A study on the impact of heuristic initialization functions in a genetic algorithm solving the N-queens problem. , 2014, , .		2
22	Comments on â€œAlbayrak, M., & Allahverdy N. (2011). Development a new mutation operator to solve the Traveling Salesman Problem by aid of genetic algorithms. Expert Systems with Applications, 38(3), 1313â€"1320â€· A proposal of good practice. Expert Systems With Applications, 2014, 41, 1530-1531.	4.4	2
23	CS4VRU: Remote monitoring and warning system for Vulnerable Road. , 2016, , .		2
24	Wireless Technologies in the Railway: Train-to-Earth Wireless Communications. , 2012, , .		1
25	A Proposal of Good Practice in the Formulation and Comparison of Meta-heuristics for Solving Routing Problems. Advances in Intelligent Systems and Computing, 2014, , 31-40.	0.5	1
26	Towards a Train-to-Ground and Intra-wagon Communications Solution Capable of Providing on Trip Customized Digital Services for Passengers. Lecture Notes in Computer Science, 2013, , 334-341.	1.0	1
27	Continuous broadband communication system based on existing open source network tools for vehicular environments. , 2012, , .		0
28	A middleware for dynamic and adaptive vehicle-to-ground communications management. , 2013, , .		0
29	A study on the efficiency of neutral crossover operators in genetic algorithms applied to the bin packing problem. , 2014, , .		0
30	Poster: Efficient cluster-based resource allocation for co-existing vehicle and cellular users. , 2016, , .		0
31	A Location-Based Transactional Download Service of Contextualized Multimedia Content for Mobile Clients. Advances in Intelligent and Soft Computing, 2010, , 205-212.	0.2	0
32	A METAHEURISTICS BASED SIMULATION TOOL TO OPTIMIZE DEMAND RESPONSIVE TRANSPORTATION SYSTEMS. , 2011, , .		0
33	A Methodological Proposal to Eliminate Ambiguities in the Comparison of Vehicle Routing Problem Solving Techniques. , 2012, , .		0
34	Using TETRA Technology for Improving a Decentralized Positioning System for Trains and Trams. Communications in Computer and Information Science, 2014, , 273-283.	0.4	0