

Mariano Frutos

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

38

papers

513

citations

10

h-index

22

g-index

40

ext. papers

639

ext. citations

2.5

avg, IF

4.78

L-index

#	Paper	IF	Citations
38	Objective space division-based hybrid evolutionary algorithm for handling overlapping solutions in combinatorial problems.. <i>Mathematical Biosciences and Engineering</i> , 2022 , 19, 3369-3401	2.1	0
37	Blockchain Production Planning in Mass Personalized Environments. <i>Studies in Big Data</i> , 2022 , 271-291	0.9	
36	Order batching and order picking with 3D positioning of the articles: solution through a hybrid evolutionary algorithm. <i>Mathematical Biosciences and Engineering</i> , 2022 , 19, 5546-5563	2.1	1
35	Business Ecosystem Approach to Industry 4.0 2021 , 1-22		1
34	A combinatorial analysis of the permutation and non-permutation flow shop scheduling problems. <i>European Journal of Operational Research</i> , 2021 , 289, 841-854	5.6	2
33	Solving Order Batching/Picking Problems with an Evolutionary Algorithm. <i>Communications in Computer and Information Science</i> , 2021 , 177-186	0.3	1
32	Stochastic forestry harvest planning under soil compaction conditions. <i>Journal of Environmental Management</i> , 2021 , 296, 113157	7.9	1
31	Upstream logistic transport planning in the oil-industry: a case study. <i>International Journal of Industrial Engineering Computations</i> , 2020 , 221-234	1.7	4
30	Application of a methodology to design a municipal waste pre-collection network in real scenarios. <i>Waste Management and Research</i> , 2020 , 38, 117-129	4	7
29	Critical paths of non-permutation and permutation flow shop scheduling problems. <i>International Journal of Industrial Engineering Computations</i> , 2020 , 281-298	1.7	3
28	Proposal and Comparative Study of Evolutionary Algorithms for Optimum Design of a Gear System. <i>IEEE Access</i> , 2020 , 8, 3482-3497	3.5	4
27	TOPSIS Decision on Approximate Pareto Fronts by Using Evolutionary Algorithms: Application to an Engineering Design Problem. <i>Mathematics</i> , 2020 , 8, 2072	2.3	3
26	Lot Streaming Flow Shop with a Heterogeneous Machine. <i>EMJ - Engineering Management Journal</i> , 2019 , 31, 113-126	1.9	6
25	An Industry 4.0 approach to assembly line resequencing. <i>International Journal of Advanced Manufacturing Technology</i> , 2019 , 105, 3619-3630	3.2	27
24	Production planning and scheduling in Cyber-Physical Production Systems: a review. <i>International Journal of Computer Integrated Manufacturing</i> , 2019 , 32, 385-395	4.3	53
23	A data-driven scheduling approach to smart manufacturing. <i>Journal of Industrial Information Integration</i> , 2019 , 15, 69-79	7	42
22	Solving a multi-objective manufacturing cell scheduling problem with the consideration of warehouses using a simulated annealing based procedure. <i>International Journal of Industrial Engineering Computations</i> , 2019 , 1-16	1.7	5

21	Industry 4.0: Smart Scheduling. <i>International Journal of Production Research</i> , 2019 , 57, 3802-3813	7.8	148
20	A Decision Support Tool for Urban Freight Transport Planning Based on a Multi-Objective Evolutionary Algorithm. <i>IEEE Access</i> , 2019 , 7, 156707-156721	3.5	3
19	Designing a Scheduling Logic Controller for Industry 4.0 Environments. <i>IFAC-PapersOnLine</i> , 2019 , 52, 2164-2169	0.7	5
18	A memetic algorithm for the integral OBP/OPP problem in a logistics distribution center. <i>Uncertain Supply Chain Management</i> , 2019 , 203-214	1.1	6
17	Visual attractiveness in routing problems: A review. <i>Computers and Operations Research</i> , 2019 , 103, 13-34	4.6	15
16	The Non-Permutation Flow-Shop scheduling problem: A literature review. <i>Omega</i> , 2018 , 77, 143-153	7.2	56
15	The Dominance Flow Shop Scheduling Problem. <i>Electronic Notes in Discrete Mathematics</i> , 2018 , 69, 21-28	0.3	7
14	An application of the augmented E-constraint method to design a municipal sorted waste collection system. <i>Decision Science Letters</i> , 2017 , 323-336	1.3	10
13	Strategic planning in a forest supply chain: a multigoal and multiproduct approach. <i>Canadian Journal of Forest Research</i> , 2017 , 47, 297-307	1.9	16
12	Integrating packing and distribution problems and optimization through mathematical programming. <i>Decision Science Letters</i> , 2016 , 317-326	1.3	2
11	A Genetic Algorithm Approach to the Optimization of Capacitated Vehicle Routing Problems. <i>Advances in Computational Intelligence and Robotics Book Series</i> , 2016 , 209-235	0.4	4
10	An alternative hybrid evolutionary technique focused on allocating machines and sequencing operations. <i>International Journal of Industrial Engineering Computations</i> , 2016 , 585-596	1.7	1
9	A non-permutation flowshop scheduling problem with lot streaming: A Mathematical model. <i>International Journal of Industrial Engineering Computations</i> , 2016 , 507-516	1.7	10
8	Choice of a PISA selector in a hybrid algorithmic structure for the FJSSP. <i>Decision Science Letters</i> , 2015 , 4, 247-260	1.3	4
7	A hybrid genetic algorithm for ROADEF05-like complex production problems. <i>DYNA (Colombia)</i> , 2015 , 82, 82-88	0.6	
6	A Multi-objective Memetic Algorithm for the Job-Shop Scheduling Problem. <i>Operational Research</i> , 2013 , 13, 233-250	1.6	4
5	An Improved Hybrid Algorithm for Stochastic Bus-Network Design 2013 , 417-438		
4	Comparison of multiobjective evolutionary algorithms for operations scheduling under machine availability constraints. <i>Scientific World Journal, The</i> , 2013 , 2013, 418396	2.2	3

3	A New Approach to the Optimization of the CVRP through Genetic Algorithms. <i>American Journal of Operations Research</i> , 2012 , 02, 495-501	0.5	3
2	A memetic algorithm based on a NSGAI scheme for the flexible job-shop scheduling problem. <i>Annals of Operations Research</i> , 2010 , 181, 745-765	3.2	55
1	Bus Network Scheduling Problem: GRASP + EAs with PISA * Simulation. <i>Lecture Notes in Computer Science</i> , 2009 , 1272-1279	0.9	1