

# Mariano Frutos

## List of Publications by Citations

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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	Industry 4.0: Smart Scheduling. <i>International Journal of Production Research</i> , <b>2019</b> , 57, 3802-3813	7.8	148
37	The Non-Permutation Flow-Shop scheduling problem: A literature review. <i>Omega</i> , <b>2018</b> , 77, 143-153	7.2	56
36	A memetic algorithm based on a NSGAII scheme for the flexible job-shop scheduling problem. <i>Annals of Operations Research</i> , <b>2010</b> , 181, 745-765	3.2	55
35	Production planning and scheduling in Cyber-Physical Production Systems: a review. <i>International Journal of Computer Integrated Manufacturing</i> , <b>2019</b> , 32, 385-395	4.3	53
34	A data-driven scheduling approach to smart manufacturing. <i>Journal of Industrial Information Integration</i> , <b>2019</b> , 15, 69-79	7	42
33	An Industry 4.0 approach to assembly line resequencing. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2019</b> , 105, 3619-3630	3.2	27
32	Strategic planning in a forest supply chain: a multigoal and multiproduct approach. <i>Canadian Journal of Forest Research</i> , <b>2017</b> , 47, 297-307	1.9	16
31	Visual attractiveness in routing problems: A review. <i>Computers and Operations Research</i> , <b>2019</b> , 103, 13-34	4.6	15
30	An application of the augmented $\epsilon$ -constraint method to design a municipal sorted waste collection system. <i>Decision Science Letters</i> , <b>2017</b> , 323-336	1.3	10
29	A non-permutation flowshop scheduling problem with lot streaming: A Mathematical model. <i>International Journal of Industrial Engineering Computations</i> , <b>2016</b> , 507-516	1.7	10
28	Application of a methodology to design a municipal waste pre-collection network in real scenarios. <i>Waste Management and Research</i> , <b>2020</b> , 38, 117-129	4	7
27	The Dominance Flow Shop Scheduling Problem. <i>Electronic Notes in Discrete Mathematics</i> , <b>2018</b> , 69, 21-28	0.3	7
26	Lot Streaming Flow Shop with a Heterogeneous Machine. <i>EMJ - Engineering Management Journal</i> , <b>2019</b> , 31, 113-126	1.9	6
25	A memetic algorithm for the integral OBP/OPP problem in a logistics distribution center. <i>Uncertain Supply Chain Management</i> , <b>2019</b> , 203-214	1.1	6
24	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> , <b>2019</b> , 1-16	1.7	5
23	Designing a Scheduling Logic Controller for Industry 4.0 Environments. <i>IFAC-PapersOnLine</i> , <b>2019</b> , 52, 2164-2169	0.7	5
22	Upstream logistic transport planning in the oil-industry: a case study. <i>International Journal of Industrial Engineering Computations</i> , <b>2020</b> , 221-234	1.7	4

21	Choice of a PISA selector in a hybrid algorithmic structure for the FJSSP. <i>Decision Science Letters</i> , <b>2015</b> , 4, 247-260	1.3	4
20	A Multi-objective Memetic Algorithm for the Job-Shop Scheduling Problem. <i>Operational Research</i> , <b>2013</b> , 13, 233-250	1.6	4
19	A Genetic Algorithm Approach to the Optimization of Capacitated Vehicle Routing Problems. <i>Advances in Computational Intelligence and Robotics Book Series</i> , <b>2016</b> , 209-235	0.4	4
18	Proposal and Comparative Study of Evolutionary Algorithms for Optimum Design of a Gear System. <i>IEEE Access</i> , <b>2020</b> , 8, 3482-3497	3.5	4
17	A Decision Support Tool for Urban Freight Transport Planning Based on a Multi-Objective Evolutionary Algorithm. <i>IEEE Access</i> , <b>2019</b> , 7, 156707-156721	3.5	3
16	Comparison of multiobjective evolutionary algorithms for operations scheduling under machine availability constraints. <i>Scientific World Journal, The</i> , <b>2013</b> , 2013, 418396	2.2	3
15	A New Approach to the Optimization of the CVRP through Genetic Algorithms. <i>American Journal of Operations Research</i> , <b>2012</b> , 02, 495-501	0.5	3
14	Critical paths of non-permutation and permutation flow shop scheduling problems. <i>International Journal of Industrial Engineering Computations</i> , <b>2020</b> , 281-298	1.7	3
13	TOPSIS Decision on Approximate Pareto Fronts by Using Evolutionary Algorithms: Application to an Engineering Design Problem. <i>Mathematics</i> , <b>2020</b> , 8, 2072	2.3	3
12	Integrating packing and distribution problems and optimization through mathematical programming. <i>Decision Science Letters</i> , <b>2016</b> , 317-326	1.3	2
11	A combinatorial analysis of the permutation and non-permutation flow shop scheduling problems. <i>European Journal of Operational Research</i> , <b>2021</b> , 289, 841-854	5.6	2
10	Business Ecosystem Approach to Industry 4.0 <b>2021</b> , 1-22		1
9	Bus Network Scheduling Problem: GRASP + EAs with PISA * Simulation. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 1272-1279	0.9	1
8	An alternative hybrid evolutionary technique focused on allocating machines and sequencing operations. <i>International Journal of Industrial Engineering Computations</i> , <b>2016</b> , 585-596	1.7	1
7	Solving Order Batching/Picking Problems with an Evolutionary Algorithm. <i>Communications in Computer and Information Science</i> , <b>2021</b> , 177-186	0.3	1
6	Stochastic forestry harvest planning under soil compaction conditions. <i>Journal of Environmental Management</i> , <b>2021</b> , 296, 113157	7.9	1
5	Order batching and order picking with 3D positioning of the articles: solution through a hybrid evolutionary algorithm. <i>Mathematical Biosciences and Engineering</i> , <b>2022</b> , 19, 5546-5563	2.1	1
4	Objective space division-based hybrid evolutionary algorithm for handling overlapping solutions in combinatorial problems.. <i>Mathematical Biosciences and Engineering</i> , <b>2022</b> , 19, 3369-3401	2.1	0

- 3 An Improved Hybrid Algorithm for Stochastic Bus-Network Design **2013**, 417-438
- 2 Blockchain Production Planning in Mass Personalized Environments. *Studies in Big Data*, **2022**, 271-291 0.9
- 1 A hybrid genetic algorithm for ROADEF05-like complex production problems. *DYNA (Colombia)*, **2015**, 82, 82-88 0.6