

Jairo Rafael Montoya-Torres

List of Publications by Year in descending order

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Version: 2024-02-01

129
papers

2,417
citations

257101

24
h-index

233125

45
g-index

130
all docs

130
docs citations

130
times ranked

2165
citing authors

#	ARTICLE	IF	CITATIONS
1	Mapping research in logistics and supply chain management during COVID-19 pandemic. <i>International Journal of Logistics Research and Applications</i> , 2023, 26, 421-441.	5.6	41
2	Sustainable supply chain network design: a study of the Colombian dairy sector. <i>Annals of Operations Research</i> , 2023, 324, 573-599.	2.6	8
3	The location routing problem with facility sizing decisions. <i>International Transactions in Operational Research</i> , 2023, 30, 915-945.	1.8	5
4	Variable neighbourhood search for job scheduling with position-dependent deteriorating processing times. <i>Journal of the Operational Research Society</i> , 2023, 74, 873-887.	2.1	3
5	Sustainable local pickup and delivery: The case of Paris. <i>Research in Transportation Business and Management</i> , 2022, 45, 100692.	1.6	7
6	A systematic literature review for the tourist trip design problem: Extensions, solution techniques and future research lines. <i>Operations Research Perspectives</i> , 2022, 9, 100228.	1.2	14
7	Operational model for minimizing costs in agricultural production systems. <i>Computers and Electronics in Agriculture</i> , 2022, 197, 106932.	3.7	7
8	Supply Chain Management, Game-Changing Technologies, and Physical Internet: A Systematic Meta-Review of Literature. <i>IEEE Access</i> , 2022, 10, 61721-61743.	2.6	4
9	Green Fuzzy Tourist Trip Design Problem. <i>Advances in Operations Research</i> , 2022, 2022, 1-10.	0.2	1
10	Unmanned aerial vehicles/drones in vehicle routing problems: a literature review. <i>International Transactions in Operational Research</i> , 2021, 28, 1626-1657.	1.8	142
11	Simulation-optimization methods for designing and assessing resilient supply chain networks under uncertainty scenarios: A review. <i>Simulation Modelling Practice and Theory</i> , 2021, 106, 102166.	2.2	69
12	A gravitational model extended by institutional and cultural factors for Colombian foreign trade. <i>Management Science Letters</i> , 2021, 11, 2313-2322.	0.8	2
13	Big Data Analytics and Intelligent Transportation Systems. <i>IFAC-PapersOnLine</i> , 2021, 54, 216-220.	0.5	25
14	Combining Heuristics with Simulation and Fuzzy Logic to Solve a Flexible-Size Location Routing Problem under Uncertainty. <i>Algorithms</i> , 2021, 14, 45.	1.2	8
15	Modeling the Parallel Machine Scheduling Problem with Worker- and Position-Dependent Processing Times. <i>IFIP Advances in Information and Communication Technology</i> , 2021, , 351-359.	0.5	1
16	A Multicriteria Simheuristic Approach for Solving a Stochastic Permutation Flow Shop Scheduling Problem. <i>Algorithms</i> , 2021, 14, 210.	1.2	5
17	Tourist trip design with heterogeneous preferences, transport mode selection and environmental considerations. <i>Annals of Operations Research</i> , 2021, 305, 227-249.	2.6	20
18	Multi-Objective Fuzzy Tourist Trip Design Problem with Heterogeneous Preferences and Sustainable Itineraries. <i>Sustainability</i> , 2021, 13, 9771.	1.6	10

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19	Combining production and distribution in supply chains: The hybrid flow-shop vehicle routing problem. <i>Computers and Industrial Engineering</i> , 2021, 159, 107486.	3.4	14
20	The Sustainability Dimensions in Intelligent Urban Transportation: A Paradigm for Smart Cities. <i>Sustainability</i> , 2021, 13, 10653.	1.6	13
21	Location of Urban Logistics Spaces (ULS) for Two-Echelon Distribution Systems. <i>Axioms</i> , 2021, 10, 214.	0.9	6
22	Managing Disruptions in Supply Chains. <i>Studies in Computational Intelligence</i> , 2021, , 272-284.	0.7	2
23	An Optimization-Based System Dynamics Simulation for Sustainable Policy Design in WEEE Management Systems. <i>Sustainability</i> , 2021, 13, 11377.	1.6	4
24	A GRASP to solve the multi-constraints multi-modal team orienteering problem with time windows for groups with heterogeneous preferences. <i>Computers and Industrial Engineering</i> , 2021, 162, 107776.	3.4	18
25	Measuring environmental performance of urban freight transport systems: A case study. <i>Sustainable Cities and Society</i> , 2020, 52, 101844.	5.1	52
26	Towards the integration of lean principles and optimization for agricultural production systems: a conceptual review proposition. <i>Journal of the Science of Food and Agriculture</i> , 2020, 100, 453-464.	1.7	16
27	Designing a Sustainable Supply Chain Network. <i>Studies in Computational Intelligence</i> , 2020, , 15-26.	0.7	1
28	A unified typology of urban logistics spaces as interfaces for freight transport. <i>Supply Chain Forum</i> , 2020, 21, 274-289.	2.7	11
29	A planning model of crop maintenance operations inspired in lean manufacturing. <i>Computers and Electronics in Agriculture</i> , 2020, 179, 105852.	3.7	5
30	Using a hybrid heuristic to solve the balanced vehicle routing problem with loading constraints. <i>International Journal of Industrial Engineering Computations</i> , 2020, , 255-280.	0.4	6
31	A Simheuristic for the Stochastic Two-Echelon Capacitated Vehicle Routing Problem. , 2020, , .		2
32	A Simheuristic Algorithm for the Location Routing Problem with Facility Sizing Decisions and Stochastic Demands. , 2020, , .		1
33	Solving an Urban Goods Distribution Problem as the 2E-CVRP Model Using a MILP-based Decomposition Approach. <i>Communications in Computer and Information Science</i> , 2020, , 153-164.	0.4	0
34	A comparison of dispatching rules hybridised with Monte Carlo Simulation in stochastic permutation flow shop problem. <i>Journal of Simulation</i> , 2019, 13, 128-137.	1.0	4
35	A nonlinear optimization model for the balanced vehicle routing problem with loading constraints. <i>International Transactions in Operational Research</i> , 2019, 26, 794-835.	1.8	12
36	Flow shop scheduling problem with position-dependent processing times. <i>Computers and Operations Research</i> , 2019, 111, 325-345.	2.4	10

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37	Robust solutions in multi-objective stochastic permutation flow shop problem. Computers and Industrial Engineering, 2019, 137, 106026.	3.4	20
38	Simulation-based optimization approach for vehicle allocation in a private transport service: A case study. Management Science Letters, 2019, , 193-204.	0.8	3
39	Sustainability metrics for real case applications of the supply chain network design problem: A systematic literature review. Journal of Cleaner Production, 2019, 231, 600-618.	4.6	116
40	Improving effectiveness of parallel machine scheduling with earliness and tardiness costs: A case study. International Journal of Industrial Engineering Computations, 2019, , 375-392.	0.4	5
41	A simheuristic for bi-objective stochastic permutation flow shop scheduling problem. Journal of Project Management, 2019, , 57-80.	0.8	8
42	A decision support system for technician routing with time windows. Academia Revista Latinoamericana De Administracion, 2019, 32, 138-158.	0.6	3
43	A GRASPxILS for the Shared Customer Collaboration Vehicle Routing Problem. IFAC-PapersOnLine, 2019, 52, 2608-2613.	0.5	3
44	A literature-based assessment of human factors in shop scheduling problems. IFAC-PapersOnLine, 2019, 52, 49-54.	0.5	7
45	Short- and mid-term evaluation of the use of electric vehicles in urban freight transport collaborative networks: a case study. International Journal of Logistics Research and Applications, 2019, 22, 229-252.	5.6	45
46	The storage location assignment problem: A literature review. International Journal of Industrial Engineering Computations, 2019, , 199-224.	0.4	37
47	Consideration of triple bottom line objectives for sustainability in the optimization of vehicle routing and loading operations: a systematic literature review. Annals of Operations Research, 2019, 273, 311-375.	2.6	23
48	Measuring Environmental Impact of Collaborative Urban Transport Networks: A Case Study. Lecture Notes in Computer Science, 2019, , 53-66.	1.0	1
49	Comparison of Multi-Criteria Decision-Making Techniques for the Location of Multi-Modal Terminals in an Integrated Public Urban Transport System. Advances in Logistics, Operations, and Management Science Book Series, 2019, , 393-407.	0.3	1
50	Using OEE to evaluate the effectiveness of urban freight transportation systems: A case study. International Journal of Production Economics, 2018, 197, 232-242.	5.1	35
51	Environmental Assessment Using a Lean Based Tool. Studies in Computational Intelligence, 2018, , 41-50.	0.7	9
52	A comparison of mixed-integer linear programming models for workforce scheduling with position-dependent processing times. Engineering Optimization, 2018, 50, 917-932.	1.5	9
53	Accomm: adaptive system for supply network operational planning. International Journal of Web Information Systems, 2018, 14, 78-106.	1.3	0
54	A New Randomized Procedure to Solve the Location Routing Problem. Advances in Intelligent Systems and Computing, 2018, , 247-254.	0.5	0

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55	Modeling and simulation of customer dissatisfaction in waiting lines and its effects. <i>Simulation</i> , 2017, 93, 91-101.	1.1	2
56	Impact of the use of electric vehicles in collaborative urban transport networks: A case study. <i>Transportation Research, Part D: Transport and Environment</i> , 2017, 50, 40-54.	3.2	91
57	A biased randomised metaheuristic for the capacitated location routing problem. <i>International Transactions in Operational Research</i> , 2017, 24, 1079-1098.	1.8	49
58	Operations research as a decision-making tool in the health sector: A state of the art. <i>DYNA (Colombia)</i> , 2017, 84, 129.	0.2	5
59	Flow-shop scheduling problem under uncertainties: Review and trends. <i>International Journal of Industrial Engineering Computations</i> , 2017, , 399-426.	0.4	33
60	A GRASP meta-heuristic for the hybrid flowshop scheduling problem. <i>Journal of Decision Systems</i> , 2017, 26, 294-306.	2.2	9
61	A Multi-Case Approach for Informational Port Decision Making. , 2017, , 159-186.		0
62	Simulation analysis of a fabrication process of a tannery: Case study of a Latin American company. <i>Journal of Operations and Supply Chain Management</i> , 2017, 10, 06.	0.3	0
63	Assessing the Performance of Dispatching Policies for Hybrid Flowshop Manufacturing Systems. <i>IFAC-PapersOnLine</i> , 2016, 49, 109-113.	0.5	1
64	Sustainability in Production Systems: A Review of Optimization Methods Studying Social Responsibility Issues in Workforce Scheduling. <i>Studies in Computational Intelligence</i> , 2016, , 115-123.	0.7	1
65	A beam search heuristic for scheduling a single machine with release dates and sequence dependent setup times to minimize the makespan. <i>Computers and Operations Research</i> , 2016, 73, 132-140.	2.4	33
66	On the impact of collaborative strategies for goods delivery in city logistics. <i>Production Planning and Control</i> , 2016, 27, 443-455.	5.8	104
67	Scheduling of multiple projects with constrained resources and preemption. <i>International Journal of Operational Research</i> , 2016, 27, 127.	0.1	0
68	Stochastic flexible flow shop scheduling problem under quantitative and qualitative decision criteria. <i>Computers and Industrial Engineering</i> , 2016, 101, 128-144.	3.4	13
69	A simheuristic algorithm for Horizontal Cooperation in urban distribution: Application to a case study in COLOMBIA. , 2016, , .		6
70	Scheduling of multiple projects with constrained resources and preemption. <i>International Journal of Operational Research</i> , 2016, 27, 127.	0.1	0
71	Workforce scheduling with social responsibility considerations. , 2015, , .		2
72	Designing sustainable supply chains based on the Triple Bottom Line approach. , 2015, , .		7

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73	Non-Collaborative versus Collaborative Last-Mile Delivery in Urban Systems with Stochastic Demands. <i>Procedia CIRP</i> , 2015, 30, 263-268.	1.0	48
74	Multicriteria Optimization in a Typical Multi-Isle Warehouse with Multiple Racks. <i>Communications in Computer and Information Science</i> , 2015, , 35-48.	0.4	0
75	Making real progress toward more sustainable societies using decision support models and tools: introduction to the special volume. <i>Journal of Cleaner Production</i> , 2015, 105, 1-13.	4.6	67
76	Simulation-optimization approach for the stochastic location-routing problem. <i>Journal of Simulation</i> , 2015, 9, 296-311.	1.0	17
77	Multi-criteria approaches for urban passenger transport systems: a literature review. <i>Annals of Operations Research</i> , 2015, 226, 69-87.	2.6	114
78	A literature review on the vehicle routing problem with multiple depots. <i>Computers and Industrial Engineering</i> , 2015, 79, 115-129.	3.4	334
79	Computational Intelligence to Support Cooperative Seaport Decision-Making in Environmental and Ecological Sustainability. <i>Lecture Notes in Computer Science</i> , 2015, , 510-525.	1.0	0
80	Conceptual Framework for Agent-Based Modeling of Customer-Oriented Supply Networks. <i>IFIP Advances in Information and Communication Technology</i> , 2015, , 223-234.	0.5	0
81	Mathematical Programming Modeling and Resolution of the Location-Routing Problem in Urban Logistics. <i>Ingenieria Y Universidad</i> , 2014, 18, 271.	0.5	13
82	Design of multi-product / multi-period closed-loop reverse logistics network using a genetic algorithm. , 2014, , .		3
83	Collaboration and information sharing in dyadic supply chains: A literature review over the period 2000â€“2012. <i>Estudios Gerenciales</i> , 2014, 30, 343-354.	0.5	74
84	A Methodology to Anticipate the Activity Level of Collaborative Networks: The Case of Urban Consolidation. <i>Supply Chain Forum</i> , 2014, 15, 70-82.	2.7	14
85	Solving the heterogeneous vehicle routing problem with time windows and multiple products via a bacterial meta-heuristic. <i>International Journal of Advanced Operations Management</i> , 2014, 6, 81.	0.3	6
86	Modelling reverse logistics practices: a case study of recycled tyres in Colombia. <i>Latin American J of Management for Sustainable Development</i> , 2014, 1, 58.	0.0	7
87	University Course Scheduling and Classroom Assignment. <i>Ingenieria Y Universidad</i> , 2014, 18, .	0.5	2
88	Designing Supply Chains Using Optimization. , 2014, , 726-736.		0
89	Mathematical Model for Designing Supply Chains. , 2014, , 1494-1502.		0
90	Modeling reverse logistics process in the agro-industrial sector: The case of the palm oil supply chain. <i>Applied Mathematical Modelling</i> , 2013, 37, 9652-9664.	2.2	62

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91	State of the Art and Future Trends of Optimality and Adaptability Articulated Mechanisms for Manufacturing Control Systems. , 2013, , .		3
92	A simulation-based algorithm for the integrated location and routing problem in urban logistics. , 2013, , .		11
93	Decision-support models and tools for helping to make real progress to more sustainable societies. Journal of Cleaner Production, 2013, 59, 3-4.	4.6	4
94	A two-pheromone trail ant colony systemâ€”tabu search approach for the heterogeneous vehicle routing problem with time windows and multiple products. Journal of Heuristics, 2013, 19, 233-252.	1.1	30
95	Multi-criteria Decision Making for Locating Multimodal Transfer Nodes in Passenger Transport Systems. , 2013, , .		2
96	Coupling ant colony optimization and discrete-event simulation to solve a stochastic location-routing problem. , 2013, , .		8
97	A modelling framework of reverse logistics practices in the Colombian plastic sector. International Journal of Industrial and Systems Engineering, 2013, 13, 364.	0.1	13
98	Performance measurement of sustainable supply chains. International Journal of Productivity and Performance Management, 2013, 62, .	2.2	4
99	Solving a Bi-Criteria Hybrid Flowshop Scheduling Problem Occurring in Apparel Manufacturing. , 2013, , 214-234.		1
100	Deterministic machine scheduling with release times and sequence-dependent setups using random-insertion heuristics. International Journal of Advanced Operations Management, 2012, 4, 4.	0.3	8
101	Ant colony optimization algorithm to minimize makespan and number of tardy jobs in flexible flowshop systems. , 2012, , .		2
102	A Case Study of Group Decision Method for Environmental Foresight and Water Resources Planning Using a Fuzzy Approach. Group Decision and Negotiation, 2012, 21, 205-232.	2.0	7
103	Vehicle routing with fuzzy time windows using a genetic algorithm. , 2011, , .		3
104	Solving a Bi-Criteria Hybrid Flowshop Scheduling Problem Occurring in Apparel Manufacturing. International Journal of Information Systems and Supply Chain Management, 2011, 4, 42-60.	0.6	7
105	Applying GRASP to solve the multi-item three-echelon uncapacitated facility location problem. Journal of the Operational Research Society, 2011, 62, 397-406.	2.1	6
106	Integer linear programming formulation of the vehicle positioning problem in automated manufacturing systems. Journal of Intelligent Manufacturing, 2011, 22, 545-552.	4.4	3
107	Ant colony optimization algorithm for a Bi-criteria 2-stage hybrid flowshop scheduling problem. Journal of Intelligent Manufacturing, 2011, 22, 815-822.	4.4	26
108	Editorial: Intelligent optimization for manufacturing operations. Journal of Intelligent Manufacturing, 2011, 22, 765-766.	4.4	0

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109	On the Analysis of Supplier-Manufacturer Information Sharing Strategies for Production Scheduling. , 2011, , 139-152.		0
110	Decision-Making Coordination within Three-Echelon Supply Chains. , 2011, , 93-107.		0
111	Project scheduling with limited resources using a genetic algorithm. International Journal of Project Management, 2010, 28, 619-628.	2.7	45
112	Applied optimization in manufacturing and services (APPOPT-2008). Annals of Operations Research, 2010, 181, 767-768.	2.6	0
113	Applying GRASP meta-heuristic to solve the single-item two-echelon uncapacitated facility location problem. International Journal of Applied Decision Sciences, 2010, 3, 297.	0.2	7
114	Global Bacteria Optimization Meta-Heuristic Algorithm for Jobshop Scheduling. International Journal of Operations Research and Information Systems, 2010, 1, 47-58.	1.0	11
115	Measuring the Impact of Supplier-Customer Information Sharing on Production Scheduling. International Journal of Information Systems and Supply Chain Management, 2009, 2, 48-61.	0.6	15
116	Multi-criteria optimization evolving artificial ants as a computational intelligence technique. , 2009, , .		1
117	Using randomization to solve the deterministic single and multiple vehicle routing problem with service time constraints. , 2009, , .		4
118	Machine scheduling with sequence-dependent setup times using a randomized search heuristic. , 2009, , .		7
119	On the analysis of strategic and operational issues of reverse logistics practices in Colombia: Presentation of some case studies. , 2009, , .		3
120	Implementing an integrated framework for internal logistics management in automated semiconductor manufacturing. International Journal of Logistics Systems and Management, 2009, 5, 418.	0.2	1
121	Solving the Capacitated Vehicle Routing Problem with maximum traveling distance and service time requirements: An approach based on Monte Carlo simulation. , 2009, , .		7
122	Analyzing the Impact of Coordinated Decisions within a Three-Echelon Supply Chain. International Journal of Information Systems and Supply Chain Management, 2009, 2, 1-15.	0.6	19
123	Scheduling jobs on a k-stage flexible flow-shop. Annals of Operations Research, 2008, 164, 29-40.	2.6	53
124	Simulation-optimization using a reinforcement learning approach. , 2008, , .		7
125	Internal transport in automated semiconductor manufacturing systems. 4or, 2007, 5, 93-97.	1.0	2
126	A literature survey on the design approaches and operational issues of automated wafer-transport systems for wafer fabs. Production Planning and Control, 2006, 17, 648-663.	5.8	75

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127	Manufacturing performance evaluation in wafer semiconductor factories. International Journal of Productivity and Performance Management, 2006, 55, 300-310.	2.2	16
128	Title is missing!. Journal of Global Optimization, 2003, 27, 97-103.	1.1	4
129	Global Bacteria Optimization Meta-Heuristic. , 0, , 178-194.		4