

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	A literature review on the vehicle routing problem with multiple depots. Computers and Industrial Engineering, 2015, 79, 115-129.	3.4	334
2	Unmanned aerial vehicles/drones in vehicle routing problems: a literature review. International Transactions in Operational Research, 2021, 28, 1626-1657.	1.8	142
3	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
4	Multi-criteria approaches for urban passenger transport systems: a literature review. Annals of Operations Research, 2015, 226, 69-87.	2.6	114
5	On the impact of collaborative strategies for goods delivery in city logistics. Production Planning and Control, 2016, 27, 443-455.	5.8	104
6	Impact of the use of electric vehicles in collaborative urban transport networks: A case study. Transportation Research, Part D: Transport and Environment, 2017, 50, 40-54.	3.2	91
7	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
8	Collaboration and information sharing in dyadic supply chains: A literature review over the period 2000-2012. Estudios Gerenciales, 2014, 30, 343-354.	0.5	74
9	Simulation-optimization methods for designing and assessing resilient supply chain networks under uncertainty scenarios: A review. Simulation Modelling Practice and Theory, 2021, 106, 102166.	2.2	69
10	Making real progress toward more sustainable societies using decision support models and tools: introduction to the special volume. Journal of Cleaner Production, 2015, 105, 1-13.	4.6	67
11	Modeling reverse logistics process in the agro-industrial sector: The case of the palm oil supply chain. Applied Mathematical Modelling, 2013, 37, 9652-9664.	2.2	62
12	Scheduling jobs on a k-stage flexible flow-shop. Annals of Operations Research, 2008, 164, 29-40.	2.6	53
13	Measuring environmental performance of urban freight transport systems: A case study. Sustainable Cities and Society, 2020, 52, 101844.	5.1	52
14	A biased-randomized metaheuristic for the capacitated location routing problem. International Transactions in Operational Research, 2017, 24, 1079-1098.	1.8	49
15	Non-Collaborative versus Collaborative Last-Mile Delivery in Urban Systems with Stochastic Demands. Procedia CIRP, 2015, 30, 263-268.	1.0	48
16	Project scheduling with limited resources using a genetic algorithm. International Journal of Project Management, 2010, 28, 619-628.	2.7	45
17	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
18	Mapping research in logistics and supply chain management during COVID-19 pandemic. International Journal of Logistics Research and Applications, 2023, 26, 421-441.	5.6	41

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19	The storage location assignment problem: A literature review. <i>International Journal of Industrial Engineering Computations</i> , 2019, , 199-224.	0.4	37
20	Using OEE to evaluate the effectiveness of urban freight transportation systems: A case study. <i>International Journal of Production Economics</i> , 2018, 197, 232-242.	5.1	35
21	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
22	Flow-shop scheduling problem under uncertainties: Review and trends. <i>International Journal of Industrial Engineering Computations</i> , 2017, , 399-426.	0.4	33
23	A two-phormone trail ant colony systemâ€™tabu search approach for the heterogeneous vehicle routing problem with time windows and multiple products. <i>Journal of Heuristics</i> , 2013, 19, 233-252.	1.1	30
24	Ant colony optimization algorithm for a Bi-criteria 2-stage hybrid flowshop scheduling problem. <i>Journal of Intelligent Manufacturing</i> , 2011, 22, 815-822.	4.4	26
25	Big Data Analytics and Intelligent Transportation Systems. <i>IFAC-PapersOnLine</i> , 2021, 54, 216-220.	0.5	25
26	Consideration of triple bottom line objectives for sustainability in the optimization of vehicle routing and loading operations: a systematic literature review. <i>Annals of Operations Research</i> , 2019, 273, 311-375.	2.6	23
27	Robust solutions in multi-objective stochastic permutation flow shop problem. <i>Computers and Industrial Engineering</i> , 2019, 137, 106026.	3.4	20
28	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
29	Analyzing the Impact of Coordinated Decisions within a Three-Echelon Supply Chain. <i>International Journal of Information Systems and Supply Chain Management</i> , 2009, 2, 1-15.	0.6	19
30	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
31	Simulation-optimization approach for the stochastic location-routing problem. <i>Journal of Simulation</i> , 2015, 9, 296-311.	1.0	17
32	Manufacturing performance evaluation in wafer semiconductor factories. <i>International Journal of Productivity and Performance Management</i> , 2006, 55, 300-310.	2.2	16
33	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
34	Measuring the Impact of Supplier-Customer Information Sharing on Production Scheduling. <i>International Journal of Information Systems and Supply Chain Management</i> , 2009, 2, 48-61.	0.6	15
35	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
36	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

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37	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
38	A modelling framework of reverse logistics practices in the Colombian plastic sector. <i>International Journal of Industrial and Systems Engineering</i> , 2013, 13, 364.	0.1	13
39	Mathematical Programming Modeling and Resolution of the Location-Routing Problem in Urban Logistics. <i>Ingenieria Y Universidad</i> , 2014, 18, 271.	0.5	13
40	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
41	The Sustainability Dimensions in Intelligent Urban Transportation: A Paradigm for Smart Cities. <i>Sustainability</i> , 2021, 13, 10653.	1.6	13
42	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
43	A simulation-based algorithm for the integrated location and routing problem in urban logistics. , 2013, , .		11
44	A unified typology of urban logistics spaces as interfaces for freight transport. <i>Supply Chain Forum</i> , 2020, 21, 274-289.	2.7	11
45	Global Bacteria Optimization Meta-Heuristic Algorithm for Jobshop Scheduling. <i>International Journal of Operations Research and Information Systems</i> , 2010, 1, 47-58.	1.0	11
46	Flow shop scheduling problem with position-dependent processing times. <i>Computers and Operations Research</i> , 2019, 111, 325-345.	2.4	10
47	Multi-Objective Fuzzy Tourist Trip Design Problem with Heterogeneous Preferences and Sustainable Itineraries. <i>Sustainability</i> , 2021, 13, 9771.	1.6	10
48	Environmental Assessment Using a Lean Based Tool. <i>Studies in Computational Intelligence</i> , 2018, , 41-50.	0.7	9
49	A comparison of mixed-integer linear programming models for workforce scheduling with position-dependent processing times. <i>Engineering Optimization</i> , 2018, 50, 917-932.	1.5	9
50	A GRASP meta-heuristic for the hybrid flowshop scheduling problem. <i>Journal of Decision Systems</i> , 2017, 26, 294-306.	2.2	9
51	Deterministic machine scheduling with release times and sequence-dependent setups using random-insertion heuristics. <i>International Journal of Advanced Operations Management</i> , 2012, 4, 4.	0.3	8
52	Coupling ant colony optimization and discrete-event simulation to solve a stochastic location-routing problem. , 2013, , .		8
53	A simheuristic for bi-objective stochastic permutation flow shop scheduling problem. <i>Journal of Project Management</i> , 2019, , 57-80.	0.8	8
54	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

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55	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
56	Simulation-optimization using a reinforcement learning approach. , 2008, , .		7
57	Machine scheduling with sequence-dependent setup times using a randomized search heuristic. , 2009, , .		7
58	Applying GRASP meta-heuristic to solve the single-item two-echelon uncapacitated facility location problem. <i>International Journal of Applied Decision Sciences</i> , 2010, 3, 297.	0.2	7
59	Solving a Bi-Criteria Hybrid Flowshop Scheduling Problem Occurring in Apparel Manufacturing. <i>International Journal of Information Systems and Supply Chain Management</i> , 2011, 4, 42-60.	0.6	7
60	A Case Study of Group Decision Method for Environmental Foresight and Water Resources Planning Using a Fuzzy Approach. <i>Group Decision and Negotiation</i> , 2012, 21, 205-232.	2.0	7
61	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
62	Designing sustainable supply chains based on the Triple Bottom Line approach. , 2015, , .		7
63	A literature-based assessment of human factors in shop scheduling problems. <i>IFAC-PapersOnLine</i> , 2019, 52, 49-54.	0.5	7
64	Sustainable local pickup and delivery: The case of Paris. <i>Research in Transportation Business and Management</i> , 2022, 45, 100692.	1.6	7
65	Solving the Capacitated Vehicle Routing Problem with maximum traveling distance and service time requirements: An approach based on Monte Carlo simulation. , 2009, , .		7
66	Operational model for minimizing costs in agricultural production systems. <i>Computers and Electronics in Agriculture</i> , 2022, 197, 106932.	3.7	7
67	Applying GRASP to solve the multi-item three-echelon uncapacitated facility location problem. <i>Journal of the Operational Research Society</i> , 2011, 62, 397-406.	2.1	6
68	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
69	A simheuristic algorithm for Horizontal Cooperation in urban distribution: Application to a case study in COLOMBIA. , 2016, , .		6
70	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
71	Location of Urban Logistics Spaces (ULS) for Two-Echelon Distribution Systems. <i>Axioms</i> , 2021, 10, 214.	0.9	6
72	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

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73	Improving effectiveness of parallel machine scheduling with earliness and tardiness costs: A case study. <i>International Journal of Industrial Engineering Computations</i> , 2019, , 375-392.	0.4	5
74	A planning model of crop maintenance operations inspired in lean manufacturing. <i>Computers and Electronics in Agriculture</i> , 2020, 179, 105852.	3.7	5
75	A Multicriteria Simheuristic Approach for Solving a Stochastic Permutation Flow Shop Scheduling Problem. <i>Algorithms</i> , 2021, 14, 210.	1.2	5
76	The location routing problem with facility sizing decisions. <i>International Transactions in Operational Research</i> , 2023, 30, 915-945.	1.8	5
77	Title is missing!. <i>Journal of Global Optimization</i> , 2003, 27, 97-103.	1.1	4
78	Using randomization to solve the deterministic single and multiple vehicle routing problem with service time constraints. , 2009, , .		4
79	Decision-support models and tools for helping to make real progress to more sustainable societies. <i>Journal of Cleaner Production</i> , 2013, 59, 3-4.	4.6	4
80	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
81	Performance measurement of sustainable supply chains. <i>International Journal of Productivity and Performance Management</i> , 2013, 62, .	2.2	4
82	Global Bacteria Optimization Meta-Heuristic. , 0, , 178-194.		4
83	An Optimization-Based System Dynamics Simulation for Sustainable Policy Design in WEEE Management Systems. <i>Sustainability</i> , 2021, 13, 11377.	1.6	4
84	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
85	On the analysis of strategic and operational issues of reverse logistics practices in Colombia: Presentation of some case studies. , 2009, , .		3
86	Vehicle routing with fuzzy time windows using a genetic algorithm. , 2011, , .		3
87	Integer linear programming formulation of the vehicle positioning problem in automated manufacturing systems. <i>Journal of Intelligent Manufacturing</i> , 2011, 22, 545-552.	4.4	3
88	State of the Art and Future Trends of Optimality and Adaptability Articulated Mechanisms for Manufacturing Control Systems. , 2013, , .		3
89	Design of multi-product / multi-period closed-loop reverse logistics network using a genetic algorithm. , 2014, , .		3
90	Simulation-based optimization approach for vehicle allocation in a private transport service: A case study. <i>Management Science Letters</i> , 2019, , 193-204.	0.8	3

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91	A decision support system for technician routing with time windows. Academia Revista Latinoamericana De Administracion, 2019, 32, 138-158.	0.6	3
92	A GRASPxILS for the Shared Customer Collaboration Vehicle Routing Problem. IFAC-PapersOnLine, 2019, 52, 2608-2613.	0.5	3
93	Variable neighbourhood search for job scheduling with position-dependent deteriorating processing times. Journal of the Operational Research Society, 2023, 74, 873-887.	2.1	3
94	Internal transport in automated semiconductor manufacturing systems. 4or, 2007, 5, 93-97.	1.0	2
95	Ant colony optimization algorithm to minimize makespan and number of tardy jobs in flexible flowshop systems. , 2012, , .		2
96	Multi-criteria Decision Making for Locating Multimodal Transfer Nodes in Passenger Transport Systems. , 2013, , .		2
97	Workforce scheduling with social responsibility considerations. , 2015, , .		2
98	Modeling and simulation of customer dissatisfaction in waiting lines and its effects. Simulation, 2017, 93, 91-101.	1.1	2
99	A gravitational model extended by institutional and cultural factors for Colombian foreign trade. Management Science Letters, 2021, 11, 2313-2322.	0.8	2
100	Managing Disruptions in Supply Chains. Studies in Computational Intelligence, 2021, , 272-284.	0.7	2
101	University Course Scheduling and Classroom Assignment. Ingenieria Y Universidad, 2014, 18, .	0.5	2
102	A Simheuristic for the Stochastic Two-Echelon Capacitated Vehicle Routing Problem. , 2020, , .		2
103	Multi-criteria optimization evolving artificial ants as a computational intelligence technique. , 2009, , .		1
104	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
105	Assessing the Performance of Dispatching Policies for Hybrid Flowshop Manufacturing Systems. IFAC-PapersOnLine, 2016, 49, 109-113.	0.5	1
106	Sustainability in Production Systems: A Review of Optimization Methods Studying Social Responsibility Issues in Workforce Scheduling. Studies in Computational Intelligence, 2016, , 115-123.	0.7	1
107	Designing a Sustainable Supply Chain Network. Studies in Computational Intelligence, 2020, , 15-26.	0.7	1
108	Modeling the Parallel Machine Scheduling Problem with Worker- and Position-Dependent Processing Times. IFIP Advances in Information and Communication Technology, 2021, , 351-359.	0.5	1

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109	Measuring Environmental Impact of Collaborative Urban Transport Networks: A Case Study. Lecture Notes in Computer Science, 2019, , 53-66.	1.0	1
110	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
111	Solving a Bi-Criteria Hybrid Flowshop Scheduling Problem Occurring in Apparel Manufacturing. , 2013, , 214-234.		1
112	A Simheuristic Algorithm for the Location Routing Problem with Facility Sizing Decisions and Stochastic Demands. , 2020, , .		1
113	Green Fuzzy Tourist Trip Design Problem. Advances in Operations Research, 2022, 2022, 1-10.	0.2	1
114	Applied optimization in manufacturing and services (APPOPT-2008). Annals of Operations Research, 2010, 181, 767-768.	2.6	0
115	Editorial: Intelligent optimization for manufacturing operations. Journal of Intelligent Manufacturing, 2011, 22, 765-766.	4.4	0
116	Multicriteria Optimization in a Typical Multi-Isle Warehouse with Multiple Racks. Communications in Computer and Information Science, 2015, , 35-48.	0.4	0
117	Scheduling of multiple projects with constrained resources and preemption. International Journal of Operational Research, 2016, 27, 127.	0.1	0
118	Accomm: adaptive system for supply network operational planning. International Journal of Web Information Systems, 2018, 14, 78-106.	1.3	0
119	On the Analysis of Supplier-Manufacturer Information Sharing Strategies for Production Scheduling. , 2011, , 139-152.		0
120	Decision-Making Coordination within Three-Echelon Supply Chains. , 2011, , 93-107.		0
121	Designing Supply Chains Using Optimization. , 2014, , 726-736.		0
122	Mathematical Model for Designing Supply Chains. , 2014, , 1494-1502.		0
123	Computational Intelligence to Support Cooperative Seaport Decision-Making in Environmental and Ecological Sustainability. Lecture Notes in Computer Science, 2015, , 510-525.	1.0	0
124	Conceptual Framework for Agent-Based Modeling of Customer-Oriented Supply Networks. IFIP Advances in Information and Communication Technology, 2015, , 223-234.	0.5	0
125	Scheduling of multiple projects with constrained resources and preemption. International Journal of Operational Research, 2016, 27, 127.	0.1	0
126	A Multi-Case Approach for Informational Port Decision Making. , 2017, , 159-186.		0

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127	Simulation analysis of a fabrication process of a tannery: Case study of a Latin American company. Journal of Operations and Supply Chain Management, 2017, 10, 06.	0.3	0
128	A New Randomized Procedure to Solve the Location Routing Problem. Advances in Intelligent Systems and Computing, 2018, , 247-254.	0.5	0
129	Solving an Urban Goods Distribution Problem as the 2E-CVRP Model Using a MILP-based Decomposition Approach. Communications in Computer and Information Science, 2020, , 153-164.	0.4	0