

Rafael Enrique Caballero Fernandez

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.

79
papers

2,341
citations

27
h-index

46
g-index

79
ext. papers

2,662
ext. citations

4.4
avg, IF

5.06
L-index

#	Paper	IF	Citations
79	A Multiobjective Model for Analysis of the Relationships between Military Expenditures, Security, and Human Development in NATO Countries. <i>Mathematics</i> , 2021 , 9, 23	2.3	0
78	Eco-efficiency assessment of municipal solid waste services: Influence of exogenous variables. <i>Waste Management</i> , 2021 , 130, 136-146	8.6	11
77	Iterated greedy with variable neighborhood search for a multiobjective waste collection problem. <i>Expert Systems With Applications</i> , 2020 , 145, 113101	7.8	16
76	Evaluating the Eco-Efficiency of Wastewater Treatment Plants: Comparison of Optimistic and Pessimistic Approaches. <i>Sustainability</i> , 2020 , 12, 10580	3.6	3
75	A bi-objective solution approach to a real-world waste collection problem. <i>Journal of the Operational Research Society</i> , 2020 , 71, 183-194	2	5
74	Sustainable tourism tags to reward destination management. <i>Journal of Environmental Management</i> , 2019 , 250, 109458	7.9	24
73	Using multiobjective optimization models to establish healthy diets in Spain following Mediterranean standards. <i>Operational Research</i> , 2019 , 21, 1927	1.6	2
72	Measuring the wastewater treatment plants productivity change: Comparison of the Luenberger and Luenberger-Hicks-Moorsteen Productivity Indicators. <i>Journal of Cleaner Production</i> , 2019 , 229, 75-83	10.3	10
71	Multicriteria optimization approach to deploy humanitarian logistic operations integrally during floods. <i>International Transactions in Operational Research</i> , 2018 , 25, 1053-1079	2.9	11
70	Project portfolio selection and planning with fuzzy constraints. <i>Technological Forecasting and Social Change</i> , 2018 , 131, 117-129	9.5	46
69	Research and development project portfolio selection under uncertainty. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2018 , 9, 857-866	3.7	4
68	Measuring the eco-efficiency of wastewater treatment plants under data uncertainty. <i>Journal of Environmental Management</i> , 2018 , 226, 484-492	7.9	28
67	The multimodal and multiperiod urban transportation integrated timetable construction problem with demand uncertainty. <i>Journal of Industrial and Management Optimization</i> , 2018 , 14, 447-472	2	2
66	A dynamic sustainable tourism evaluation using multiple benchmarks. <i>Journal of Cleaner Production</i> , 2018 , 174, 1190-1203	10.3	27
65	Assessing changes in eco-productivity of wastewater treatment plants: The role of costs, pollutant removal efficiency, and greenhouse gas emissions. <i>Environmental Impact Assessment Review</i> , 2018 , 69, 24-31	5.3	32
64	The urban transport planning with uncertainty in demand and travel time: a comparison of two defuzzification methods. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2018 , 9, 843-856	3.7	20
63	Dynamic goal programming synthetic indicator: an application for water companies sustainability assessment. <i>Urban Water Journal</i> , 2018 , 15, 592-600	2.3	6

62	Measuring the sustainability of Cuban tourism destinations considering stakeholders' perceptions. <i>International Journal of Tourism Research</i> , 2017 , 19, 318-328	3.7	21
61	Assessing the quality of service to customers provided by water utilities: A synthetic index approach. <i>Ecological Indicators</i> , 2017 , 78, 214-220	5.8	13
60	Assessing the efficiency of wastewater treatment plants: A double-bootstrap approach. <i>Journal of Cleaner Production</i> , 2017 , 164, 315-324	10.3	36
59	Sustainability Ranking for Cuban Tourist Destinations Based on Composite Indexes. <i>Social Indicators Research</i> , 2016 , 129, 425-444	2.7	12
58	Assessing the sustainability of water companies: A synthetic indicator approach. <i>Ecological Indicators</i> , 2016 , 61, 577-587	5.8	36
57	Sustainable tourism composite indicators: a dynamic evaluation to manage changes in sustainability. <i>Journal of Sustainable Tourism</i> , 2016 , 24, 1403-1424	5.7	40
56	Eco-efficiency assessment of wastewater treatment plants using a weighted Russell directional distance model. <i>Journal of Cleaner Production</i> , 2016 , 137, 1066-1075	10.3	42
55	Multiple criteria decision making and economics: an introduction. <i>Annals of Operations Research</i> , 2016 , 245, 1-5	3.2	7
54	Assessment of wastewater treatment alternatives for small communities: An analytic network process approach. <i>Science of the Total Environment</i> , 2015 , 532, 676-87	10.2	84
53	Cross entropy for multiobjective combinatorial optimization problems with linear relaxations. <i>European Journal of Operational Research</i> , 2015 , 243, 362-368	5.6	6
52	Efficiency in forest management: A multiobjective harvest scheduling model. <i>Journal of Forest Economics</i> , 2014 , 20, 236-251	1.1	12
51	Assessing the sustainability of small wastewater treatment systems: a composite indicator approach. <i>Science of the Total Environment</i> , 2014 , 497-498, 607-617	10.2	121
50	A multi-start algorithm for a balanced real-world Open Vehicle Routing Problem. <i>European Journal of Operational Research</i> , 2014 , 238, 104-113	5.6	29
49	Solving a bi-objective Transportation Location Routing Problem by metaheuristic algorithms. <i>European Journal of Operational Research</i> , 2014 , 234, 25-36	5.6	73
48	Bi-Objective Bus Routing: An Application to School Buses in Rural Areas. <i>Transportation Science</i> , 2013 , 47, 397-411	4.4	45
47	Composite indicator for the assessment of sustainability: The case of Cuban nature-based tourism destinations. <i>Ecological Indicators</i> , 2013 , 29, 316-324	5.8	79
46	Interactive design of personalised tourism routes. <i>Tourism Management</i> , 2012 , 33, 926-940	10.8	69
45	Sustainable tourism indicators as planning tools in cultural destinations. <i>Ecological Indicators</i> , 2012 , 18, 659-675	5.8	130

44	A Declarative Embedding of XQuery in a Functional-Logic Language. <i>Lecture Notes in Computer Science</i> , 2012 , 42-56	0.9	
43	How to use sustainability indicators for tourism planning: the case of rural tourism in Andalusia (Spain). <i>Science of the Total Environment</i> , 2011 , 412-413, 28-45	10.2	92
42	A multiobjective model for forest planning with adjacency constraints. <i>Annals of Operations Research</i> , 2011 , 190, 75-92	3.2	11
41	Improving the efficiency of ϵ -dominance based grids. <i>Information Sciences</i> , 2011 , 181, 3101-3129	7.7	8
40	Scatter tabu search for multiobjective clustering problems. <i>Journal of the Operational Research Society</i> , 2011 , 62, 2034-2046	2	14
39	XQuery in the Functional-Logic Language Toy. <i>Lecture Notes in Computer Science</i> , 2011 , 35-51	0.9	2
38	Integrating XPath with the Functional-Logic Language Toy. <i>Lecture Notes in Computer Science</i> , 2011 , 1456-1459	0.159	2
37	The challenge of optimizing expensive black boxes: a scatter search/rough set theory approach. <i>Journal of the Operational Research Society</i> , 2010 , 61, 53-67	2	9
36	Planning federal public investment in Mexico using multiobjective decision making. <i>Journal of the Operational Research Society</i> , 2010 , 61, 1328-1339	2	3
35	Goal programming synthetic indicators: An application for sustainable tourism in Andalusian coastal counties. <i>Ecological Economics</i> , 2010 , 69, 2158-2172	5.6	77
34	DEMORS: A hybrid multi-objective optimization algorithm using differential evolution and rough set theory for constrained problems. <i>Computers and Operations Research</i> , 2010 , 37, 470-480	4.6	52
33	Solving a comprehensive model for multiobjective project portfolio selection. <i>Computers and Operations Research</i> , 2010 , 37, 630-639	4.6	120
32	Using a Gradient Based Method to Seed an EMO Algorithm. <i>Lecture Notes in Economics and Mathematical Systems</i> , 2010 , 327-337	0.4	
31	A DECOMPOSITION-COORDINATION METHOD FOR COMPLEX MULTI-OBJECTIVE SYSTEMS. <i>Asia-Pacific Journal of Operational Research</i> , 2009 , 26, 735-757	0.8	4
30	Goal Programming: realistic targets for the near future. <i>Journal of Multi-Criteria Decision Analysis</i> , 2009 , 16, 79-110	1.9	31
29	g -dominance: Reference point based dominance for multiobjective metaheuristics. <i>European Journal of Operational Research</i> , 2009 , 197, 685-692	5.6	174
28	Using box indices in supporting comparison in multiobjective optimization. <i>European Journal of Operational Research</i> , 2009 , 197, 17-24	5.6	9
27	Sawing planning using a multicriteria approach. <i>Journal of Industrial and Management Optimization</i> , 2009 , 5, 303-317	2	5

26	Seeding the initial population of a multi-objective evolutionary algorithm using gradient-based information 2008 ,		19
25	On the Use of Projected Gradients for Constrained Multiobjective Optimization Problems. <i>Lecture Notes in Computer Science</i> , 2008 , 712-721	0.9	2
24	Rough Sets Theory for Multi-Objective Optimization Problems. <i>Studies in Computational Intelligence</i> , 2008 , 81-98	0.8	3
23	Solving a multiobjective location routing problem with a metaheuristic based on tabu search. Application to a real case in Andalusia. <i>European Journal of Operational Research</i> , 2007 , 177, 1751-1763	5.6	112
22	Alternative techniques to solve hard multi-objective optimization problems 2007 ,		7
21	SSPMO: A Scatter Tabu Search Procedure for Non-Linear Multiobjective Optimization. <i>INFORMS Journal on Computing</i> , 2007 , 19, 91-100	2.4	69
20	Equivalent Information for Multiobjective Interactive Procedures. <i>Management Science</i> , 2007 , 53, 125-134	3.9	20
19	A forest planning problem solved via a linear fractional goal programming model. <i>Forest Ecology and Management</i> , 2006 , 227, 79-88	3.9	47
18	A new proposal for multi-objective optimization using differential evolution and rough sets theory 2006 ,		24
17	Restoration of efficiency in a goal programming problem with linear fractional criteria. <i>European Journal of Operational Research</i> , 2006 , 172, 31-39	5.6	17
16	Interactive meta-goal programming. <i>European Journal of Operational Research</i> , 2006 , 175, 135-154	5.6	20
15	MOPEN: A computational package for Linear Multiobjective and Goal Programming problems. <i>Decision Support Systems</i> , 2005 , 41, 160-175	5.6	8
14	Stochastic approach versus multiobjective approach for obtaining efficient solutions in stochastic multiobjective programming problems. <i>European Journal of Operational Research</i> , 2004 , 158, 633-648	5.6	48
13	The controlled estimation method in the multiobjective linear fractional problem. <i>Computers and Operations Research</i> , 2004 , 31, 1821-1832	4.6	13
12	Budgetary allocations and efficiency in the human resources policy of a university following multiple criteria. <i>Economics of Education Review</i> , 2004 , 23, 67-74	1.9	24
11	Analysis and comparisons of some solution concepts for stochastic programming problems. <i>Top</i> , 2002 , 10, 101-123	1.3	5
10	Meta-goal programming. <i>European Journal of Operational Research</i> , 2002 , 136, 422-429	5.6	47
9	Hierarchical generation of Pareto optimal solutions in large-scale multiobjective systems. <i>Computers and Operations Research</i> , 2002 , 29, 1537-1558	4.6	17

8	Analysis via goal programming of the minimum achievable stay in surgical waiting lists. <i>Journal of the Operational Research Society</i> , 2002 , 53, 387-396	2	20
7	Efficient assignment of financial resources within a university system. Study of the University of Malaga. <i>European Journal of Operational Research</i> , 2001 , 133, 298-309	5.6	15
6	Efficient Solution Concepts and Their Relations in Stochastic Multiobjective Programming. <i>Journal of Optimization Theory and Applications</i> , 2001 , 110, 53-74	1.6	59
5	Portfolio Selection Via Goal Programming. <i>Contributions To Management Science</i> , 2000 , 79-92	0.4	
4	A Functional-Logic Perspective of Parsing. <i>Lecture Notes in Computer Science</i> , 1999 , 85-99	0.9	9
3	Goal programming with dynamic goals. <i>Journal of Multi-Criteria Decision Analysis</i> , 1998 , 7, 217-229	1.9	5
2	Lexicographic improvement of the target values in convex goal programming. <i>European Journal of Operational Research</i> , 1998 , 107, 644-655	5.6	15
1	A metaheuristic procedure for multiobjective location routing		1