Rafael Enrique Caballero FernÃ¡ndez

List of Publications by Year
in descending order

79 papers	3,021 citations	172207 29 h-index	174990 52 g-index
79 all docs	79 docs citations	79 times ranked	2825 citing authors

#	Article	IF	Citations
1	g-dominance: Reference point based dominance for multiobjective metaheuristics. European Journal of Operational Research, 2009, 197, 685-692.	3.5	234
2	Sustainable tourism indicators as planning tools in cultural destinations. Ecological Indicators, 2012, 18, 659-675.	2.6	183
3	Solving a comprehensive model for multiobjective project portfolio selection. Computers and Operations Research, 2010, 37, 630-639.	2.4	144
4	Assessing the sustainability of small wastewater treatment systems: A composite indicator approach. Science of the Total Environment, 2014, 497-498, 607-617.	3.9	139
5	Solving a multiobjective location routing problem with a metaheuristic based on tabu search. Application to a real case in Andalusia. European Journal of Operational Research, 2007, 177, 1751-1763.	3.5	133
6	How to use sustainability indicators for tourism planning: The case of rural tourism in Andalusia (Spain). Science of the Total Environment, 2011, 412-413, 28-45.	3.9	131
7	Composite indicator for the assessment of sustainability: The case of Cuban nature-based tourism destinations. Ecological Indicators, 2013, 29, 316-324.	2.6	101
8	Assessment of wastewater treatment alternatives for small communities: An analytic network process approach. Science of the Total Environment, 2015, 532, 676-687.	3.9	101
9	Solving a bi-objective Transportation Location Routing Problem by metaheuristic algorithms. European Journal of Operational Research, 2014, 234, 25-36.	3.5	96
10	Goal programming synthetic indicators: An application for sustainable tourism in Andalusian coastal counties. Ecological Economics, 2010, 69, 2158-2172.	2.9	95
11	Interactive design of personalised tourism routes. Tourism Management, 2012, 33, 926-940.	5.8	89
12	SSPMO: A Scatter Tabu Search Procedure for Non-Linear Multiobjective Optimization. INFORMS Journal on Computing, 2007, 19, 91-100.	1.0	74
13	Efficient Solution Concepts and Their Relations in Stochastic Multiobjective Programming. Journal of Optimization Theory and Applications, 2001, 110, 53-74.	0.8	66
14	Project portfolio selection and planning with fuzzy constraints. Technological Forecasting and Social Change, 2018, 131, 117-129.	6.2	63
15	Meta-goal programming. European Journal of Operational Research, 2002, 136, 422-429.	3.5	60
16	DEMORS: A hybrid multi-objective optimization algorithm using differential evolution and rough set theory for constrained problems. Computers and Operations Research, 2010, 37, 470-480.	2.4	60
17	Sustainable tourism composite indicators: a dynamic evaluation to manage changes in sustainability. Journal of Sustainable Tourism, 2016, 24, 1403-1424.	5.7	59
18	Stochastic approach versus multiobjective approach for obtaining efficient solutions in stochastic multiobjective programming problems. European Journal of Operational Research, 2004, 158, 633-648.	3.5	56

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19	Bi-Objective Bus Routing: An Application to School Buses in Rural Areas. Transportation Science, 2013, 47, 397-411.	2.6	56
20	A forest planning problem solved via a linear fractional goal programming model. Forest Ecology and Management, 2006, 227, 79-88.	1.4	54
21	Eco-efficiency assessment of wastewater treatment plants using a weighted Russell directional distance model. Journal of Cleaner Production, 2016, 137, 1066-1075.	4.6	51
22	Assessing the sustainability of water companies: A synthetic indicator approach. Ecological Indicators, 2016, 61, 577-587.	2.6	51
23	Assessing the efficiency of wastewater treatment plants: A double-bootstrap approach. Journal of Cleaner Production, 2017, 164, 315-324.	4.6	48
24	Assessing changes in eco-productivity of wastewater treatment plants: The role of costs, pollutant removal efficiency, and greenhouse gas emissions. Environmental Impact Assessment Review, 2018, 69, 24-31.	4.4	46
25	Measuring the eco-efficiency of wastewater treatment plants under data uncertainty. Journal of Environmental Management, 2018, 226, 484-492.	3.8	43
26	A dynamic sustainable tourism evaluation using multiple benchmarks. Journal of Cleaner Production, 2018, 174, 1190-1203.	4.6	42
27	A multi-start algorithm for a balanced real-world Open Vehicle Routing Problem. European Journal of Operational Research, 2014, 238, 104-113.	3.5	41
28	Goal Programming: realistic targets for the near future. Journal of Multi-Criteria Decision Analysis, 2009, 16, 79-110.	1.0	35
29	Measuring the sustainability of Cuban tourism destinations considering stakeholders' perceptions. International Journal of Tourism Research, 2017, 19, 318-328.	2.1	33
30	Budgetary allocations and efficiency in the human resources policy of a university following multiple criteria. Economics of Education Review, 2004, 23, 67-74.	0.7	31
31	A new proposal for multi-objective optimization using differential evolution and rough sets theory. , 2006, , .		31
32	Sustainable tourism tags to reward destination management. Journal of Environmental Management, 2019, 250, 109458.	3.8	30
33	Iterated greedy with variable neighborhood search for a multiobjective waste collection problem. Expert Systems With Applications, 2020, 145, 113101.	4.4	29
34	Interactive meta-goal programming. European Journal of Operational Research, 2006, 175, 135-154.	3.5	27
35	The urban transport planning with uncertainty in demand and travel time: a comparison of two defuzzification methods. Journal of Ambient Intelligence and Humanized Computing, 2018, 9, 843-856.	3.3	27
36	Seeding the initial population of a multi-objective evolutionary algorithm using gradient-based information. , 2008, , .		26

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37	Analysis via goal programming of the minimum achievable stay in surgical waiting lists. Journal of the Operational Research Society, 2002, 53, 387-396.	2.1	25
38	Eco-efficiency assessment of municipal solid waste services: Influence of exogenous variables. Waste Management, 2021, 130, 136-146.	3.7	23
39	Multicriteria optimization approach to deploy humanitarian logistic operations integrally during floods. International Transactions in Operational Research, 2018, 25, 1053-1079.	1.8	22
40	Equivalent Information for Multiobjective Interactive Procedures. Management Science, 2007, 53, 125-134.	2.4	21
41	Restoration of efficiency in a goal programming problem with linear fractional criteria. European Journal of Operational Research, 2006, 172, 31-39.	3.5	20
42	Hierarchical generation of Pareto optimal solutions in large-scale multiobjective systems. Computers and Operations Research, 2002, 29, 1537-1558.	2.4	19
43	Scatter tabu search for multiobjective clustering problems. Journal of the Operational Research Society, 2011, 62, 2034-2046.	2.1	17
44	Efficient assignment of financial resources within a university system. Study of the University of Malaga. European Journal of Operational Research, 2001, 133, 298-309.	3.5	16
45	Lexicographic improvement of the target values in convex goal programming. European Journal of Operational Research, 1998, 107, 644-655.	3.5	15
46	The controlled estimation method in the multiobjective linear fractional problem. Computers and Operations Research, 2004, 31, 1821-1832.	2.4	15
47	Assessing the quality of service to customers provided by water utilities: A synthetic index approach. Ecological Indicators, 2017, 78, 214-220.	2.6	15
48	A multiobjective model for forest planning withÂadjacency constraints. Annals of Operations Research, 2011, 190, 75-92.	2.6	14
49	Efficiency in forest management: A multiobjective harvest scheduling model. Journal of Forest Economics, 2014, 20, 236-251.	0.1	14
50	Sustainability Ranking for Cuban Tourist Destinations Based on Composite Indexes. Social Indicators Research, 2016, 129, 425-444.	1.4	13
51	Measuring the wastewater treatment plants productivity change: Comparison of the Luenberger and Luenberger-Hicks-Moorsteen Productivity Indicators. Journal of Cleaner Production, 2019, 229, 75-83.	4.6	13
52	Using box indices in supporting comparison in multiobjective optimization. European Journal of Operational Research, 2009, 197, 17-24.	3.5	12
53	The challenge of optimizing expensive black boxes: a scatter search/rough set theory approach. Journal of the Operational Research Society, 2010, 61, 53-67.	2.1	12
54	A bi-objective solution approach to a real-world waste collection problem. Journal of the Operational Research Society, 2020, 71, 183-194.	2.1	12

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55	A Functional-Logic Perspective of Parsing. Lecture Notes in Computer Science, 1999, , 85-99.	1.0	11
56	Multiple criteria decision making and economics: an introduction. Annals of Operations Research, 2016, 245, 1-5.	2.6	10
57	Research and development project portfolio selection under uncertainty. Journal of Ambient Intelligence and Humanized Computing, 2018, 9, 857-866.	3.3	10
58	MOPEN: A computational package for Linear Multiobjective and Goal Programming problems. Decision Support Systems, 2005, 41, 160-175.	3.5	9
59	Dynamic goal programming synthetic indicator: an application for water companies sustainability assessment. Urban Water Journal, 2018, 15, 592-600.	1.0	9
60	Evaluating the Eco-Efficiency of Wastewater Treatment Plants: Comparison of Optimistic and Pessimistic Approaches. Sustainability, 2020, 12, 10580.	1.6	9
61	Goal programming with dynamic goals. Journal of Multi-Criteria Decision Analysis, 1998, 7, 217-229.	1.0	8
62	Alternative techniques to solve hard multi-objective optimization problems. , 2007, , .		8
63	Improving the efficiency of Ïµ-dominance based grids. Information Sciences, 2011, 181, 3101-3129.	4.0	8
64	Cross entropy for multiobjective combinatorial optimization problems with linear relaxations. European Journal of Operational Research, 2015, 243, 362-368.	3.5	7
65	Sawing planning using a multicriteria approach. Journal of Industrial and Management Optimization, 2009, 5, 303-317.	0.8	7
66	Analysis and comparisons of some solution concepts for stochastic programming problems. Top, 2002, 10, 101-123.	1.1	6
67	A DECOMPOSITION-COORDINATION METHOD FOR COMPLEX MULTI-OBJECTIVE SYSTEMS. Asia-Pacific Journal of Operational Research, 2009, 26, 735-757.	0.9	5
68	Planning federal public investment in Mexico using multiobjective decision making. Journal of the Operational Research Society, 2010, 61, 1328-1339.	2.1	5
69	The multimodal and multiperiod urban transportation integrated timetable construction problem with demand uncertainty. Journal of Industrial and Management Optimization, 2018, 14, 447-472.	0.8	5
70	On the Use of Projected Gradients for Constrained Multiobjective Optimization Problems. Lecture Notes in Computer Science, 2008, , 712-721.	1.0	4
71	Using multiobjective optimization models to establish healthy diets in Spain following Mediterranean standards. Operational Research, 2021, 21, 1927-1961.	1.3	4
72	Integrating XPath with the Functional-Logic Language Toy. Lecture Notes in Computer Science, 2011, , 145-159.	1.0	4

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73	Rough Sets Theory for Multi-Objective Optimization Problems. Studies in Computational Intelligence, 2008, , 81-98.	0.7	3
74	A Multiobjective Model for Analysis of the Relationships between Military Expenditures, Security, and Human Development in NATO Countries. Mathematics, 2021, 9, 23.	1.1	3
75	XQuery in the Functional-Logic Language Toy. Lecture Notes in Computer Science, 2011, , 35-51.	1.0	2
76	A metaheuristic procedure for multiobjective location routing. , 0, , .		1
77	Portfolio Selection Via Goal Programming. Contributions To Management Science, 2000, , 79-92.	0.4	0
78	Using a Gradient Based Method to Seed an EMO Algorithm. Lecture Notes in Economics and Mathematical Systems, 2010, , 327-337.	0.3	0
79	A Declarative Embedding of XQuery in a Functional-Logic Language. Lecture Notes in Computer Science, 2012, , 42-56.	1.0	0