

# Carlos Romero LÃ³pez

## List of Publications by Year in descending order

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136  
papers

4,805  
citations

109137

35  
h-index

106150

65  
g-index

139  
all docs

139  
docs citations

139  
times ranked

2775  
citing authors

#	ARTICLE	IF	CITATIONS
1	Goal programming for decision making: An overview of the current state-of-the-art. European Journal of Operational Research, 1998, 111, 569-581.	3.5	503
2	Making forestry decisions with multiple criteria: A review and an assessment. Forest Ecology and Management, 2008, 255, 3222-3241.	1.4	273
3	Extended lexicographic goal programming: a unifying approach. Omega, 2001, 29, 63-71.	3.6	252
4	Measuring systems sustainability with multi-criteria methods: A critical review. European Journal of Operational Research, 2017, 258, 607-616.	3.5	225
5	A general structure of achievement function for a goal programming model. European Journal of Operational Research, 2004, 153, 675-686.	3.5	212
6	In search of a natural systems sustainability index. Ecological Economics, 2004, 49, 401-405.	2.9	153
7	Operations Research Models and the Management of Agricultural and Forestry Resources: A Review and Comparison. Interfaces, 2006, 36, 446-457.	1.6	135
8	On farmers' objectives: A multi-criteria approach. European Journal of Operational Research, 1997, 96, 64-71.	3.5	123
9	Goal programming, compromise programming and reference point method formulations: linkages and utility interpretations. Journal of the Operational Research Society, 1998, 49, 986-991.	2.1	97
10	Development and application of a multi-attribute sustainability function for Dutch dairy farming systems. Ecological Economics, 2006, 57, 640-658.	2.9	96
11	A survey of generalized goal programming (1970-1982). European Journal of Operational Research, 1986, 25, 183-191.	3.5	93
12	Multiple Criteria Decision Making and its Applications to Economic Problems. , 1998, , .		89
13	A non-interactive methodology to assess farmers' utility functions: An application to large farms in Andalusia, Spain. European Review of Agricultural Economics, 1998, 25, 92-102.	1.5	86
14	Forest management optimisation models when carbon captured is considered: a goal programming approach. Forest Ecology and Management, 2003, 174, 447-457.	1.4	85
15	Aggregation of partial ordinal rankings: an interval goal programming approach. Computers and Operations Research, 2001, 28, 827-834.	2.4	84
16	Natural resource management and the use of multiple criteria decision-making techniques: A review. European Review of Agricultural Economics, 1987, 14, 61-89.	1.5	80
17	Distance-based consensus methods: a goal programming approach. Omega, 1999, 27, 341-347.	3.6	73
18	Aggregation of preferences in an environmental economics context: a goal-programming approach. Omega, 2002, 30, 89-95.	3.6	71

#	ARTICLE	IF	CITATIONS
19	Operations Research challenges in forestry: 33 open problems. <i>Annals of Operations Research</i> , 2015, 232, 11.	2.6	71
20	A theorem connecting utility function optimization and compromise programming. <i>Operations Research Letters</i> , 1991, 10, 421-427.	0.5	67
21	Meta-goal programming. <i>European Journal of Operational Research</i> , 2002, 136, 422-429.	3.5	60
22	Forest management with multiple criteria and multiple stakeholders: An application to two public forests in Spain. <i>Scandinavian Journal of Forest Research</i> , 2009, 24, 87-93.	0.5	60
23	The application of the MCDM paradigm to the management of agricultural systems: Some basic considerations. <i>Agricultural Systems</i> , 1993, 41, 239-255.	3.2	58
24	Multiple-criteria decision-making techniques and their role in livestock ration formulation. <i>Agricultural Systems</i> , 1984, 15, 23-49.	3.2	56
25	GOAL PROGRAMMING AND MULTIPLE CRITERIA DECISION-MAKING IN FARM PLANNING: AN EXPOSITORY ANALYSIS. <i>Journal of Agricultural Economics</i> , 1984, 35, 177-190.	1.6	56
26	Sustainability of forest management plans: a discrete goal programming approach. <i>Journal of Environmental Management</i> , 2004, 71, 351-359.	3.8	56
27	Goal programming with penalty functions and livestock ration formulation. <i>Agricultural Systems</i> , 1987, 23, 117-132.	3.2	54
28	Multiple Objectives in Agricultural Planning: A Compromise Programming Application. <i>American Journal of Agricultural Economics</i> , 1987, 69, 78-86.	2.4	51
29	Bridging the Gap Between National and Ecosystem Accounting Application in Andalusian Forests, Spain. <i>Ecological Economics</i> , 2019, 157, 218-236.	2.9	50
30	Optimal forest rotation age when carbon captured is considered: theory and applications. <i>Journal of the Operational Research Society</i> , 1998, 49, 121-131.	2.1	49
31	A method for dealing with inconsistencies in pairwise comparisons. <i>European Journal of Operational Research</i> , 2004, 158, 351-361.	3.5	49
32	Computing compromise solutions: On the connections between compromise programming and composite programming. <i>Applied Mathematics and Computation</i> , 2008, 195, 1-10.	1.4	49
33	Operations research in the natural resource industry. <i>International Transactions in Operational Research</i> , 2012, 19, 39-62.	1.8	46
34	Inferring consensus weights from pairwise comparison matrices without suitable properties. <i>Annals of Operations Research</i> , 2007, 154, 123-132.	2.6	45
35	Aggregation of preferences in participatory forest planning with multiple criteria: an application to the urban forest in Lycksele, Sweden. <i>Canadian Journal of Forest Research</i> , 2009, 39, 1979-1992.	0.8	40
36	Participatory Goal Programming in Forest Management: An Application Integrating Several Ecosystem Services. <i>Forests</i> , 2014, 5, 3352-3371.	0.9	37

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37	Transitive approximation to pairwise comparison matrices by using interval goal programming. <i>Journal of the Operational Research Society</i> , 2003, 54, 532-538.	2.1	36
38	GOAL PROGRAMMING AND MULTIPLE CRITERIA DECISIONEMAKING IN FARM PLANNING: SOME EXTENSIONS. <i>Journal of Agricultural Economics</i> , 1985, 36, 171-185.	1.6	35
39	Goal programming in forest management: customising models for the decision-maker's preferences. <i>Scandinavian Journal of Forest Research</i> , 2013, 28, 166-173.	0.5	34
40	Managing forest biodiversity: a zero-one goal programming approach. <i>Agricultural Systems</i> , 2001, 68, 197-213.	3.2	33
41	Optimal harvest scheduling in Eucalyptus plantations under a sustainability perspective. <i>Forest Ecology and Management</i> , 2013, 291, 367-376.	1.4	33
42	Goal Programming. , 2003, , 489-500.		31
43	Risk programming for agricultural resource allocation: A multidimensional risk approach. <i>Annals of Operations Research</i> , 2000, 94, 57-68.	2.6	30
44	Characterization and explanation of the sustainability of the European wood manufacturing industries: A quantitative approach. <i>Expert Systems With Applications</i> , 2012, 39, 6618-6627.	4.4	30
45	Multi-Objective and Goal-Programming Approaches as a Distance Function Model. <i>Journal of the Operational Research Society</i> , 1985, 36, 249-251.	2.1	29
46	An Interactive Multigoal Programming Model for Determining Livestock Rations: an Application to Dairy Cows in Andalusia, Spain. <i>Journal of the Operational Research Society</i> , 1992, 43, 945-953.	2.1	29
47	Ranking of industrial forest plantations in terms of sustainability: A multicriteria approach. <i>Journal of Environmental Management</i> , 2016, 180, 123-132.	3.8	29
48	Making sustainability rankings using compromise programming. An application to European paper industry. <i>Silva Fennica</i> , 2011, 45, .	0.5	29
49	Interactive meta-goal programming. <i>European Journal of Operational Research</i> , 2006, 175, 135-154.	3.5	27
50	Weighting in compromise programming: A theorem on shadow prices. <i>Operations Research Letters</i> , 1993, 13, 325-329.	0.5	25
51	Utility optimization when the utility function is virtually unknown. <i>Theory and Decision</i> , 1994, 37, 233-243.	0.5	25
52	On the Monotonicity of the Compromise Set in Multicriteria Problems. <i>Journal of Optimization Theory and Applications</i> , 1999, 102, 69-82.	0.8	25
53	A Goal Programming Approach for a Joint Design of Macroeconomic and Environmental Policies: A Methodological Proposal and an Application to the Spanish Economy. <i>Environmental Management</i> , 2009, 43, 888-898.	1.2	24
54	Determining Optimum Fertilizer Combinations Through Goal Programming with Penalty Functions: An Application to Sugar Beet production in Spain. <i>Journal of the Operational Research Society</i> , 1988, 39, 61-70.	2.1	23

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55	The design of socially optimal decisions in a consensus scenario. <i>Omega</i> , 2011, 39, 179-185.	3.6	23
56	Multicriteria decision analysis and environmental economics: An approximation. <i>European Journal of Operational Research</i> , 1997, 96, 81-89.	3.5	22
57	Using compromise programming for macroeconomic policy making in a general equilibrium framework: theory and application to the Spanish economy. <i>Journal of the Operational Research Society</i> , 2008, 59, 875-883.	2.1	22
58	Corporate social responsibility in portfolio selection: A "goal games" against nature approach. <i>Computers and Industrial Engineering</i> , 2014, 75, 260-265.	3.4	21
59	Using quantitative techniques to evaluate and explain the sustainability of forest plantations. <i>Canadian Journal of Forest Research</i> , 2016, 46, 1157-1166.	0.8	21
60	Relaxation of nutrient requirements on livestock rations through interactive multigoal programming. <i>Agricultural Systems</i> , 1994, 45, 443-453.	3.2	20
61	Participatory decision-making in land use planning: An application in Costa Rica. <i>Ecological Economics</i> , 2007, 63, 740-748.	2.9	20
62	A note "Effects of five sided penalty functions in goal programming. <i>Omega</i> , 1984, 12, 333.	3.6	19
63	Generating well-behaved utility functions for compromise programming. <i>Journal of Optimization Theory and Applications</i> , 1996, 91, 643-649.	0.8	19
64	An analytical framework for aggregating multiattribute utility functions. <i>Journal of the Operational Research Society</i> , 2006, 57, 1241-1247.	2.1	19
65	Bentham, Marx and Rawls ethical principles: In search for a compromise. <i>Omega</i> , 2016, 62, 47-51.	3.6	18
66	The optimal rotation of a flammable forest stand when both carbon sequestration and timber are valued: a multi-criteria approach. <i>Natural Hazards</i> , 2014, 72, 375-387.	1.6	17
67	Naive Weighting in Non-Preemptive Goal Programming. <i>Journal of the Operational Research Society</i> , 1985, 36, 647-648.	2.1	16
68	COMPROMISE "RISK PROGRAMMING FOR AGRICULTURAL RESOURCE ALLOCATION PROBLEMS: AN ILLUSTRATION. <i>Journal of Agricultural Economics</i> , 1988, 39, 271-276.	1.6	16
69	Valuation of environmental goods: A shadow value perspective. <i>Ecological Economics</i> , 2008, 64, 517-520.	2.9	16
70	A Note on Diet Planning in the Third World by Linear and Goal Programming. <i>Journal of the Operational Research Society</i> , 1984, 35, 555-558.	2.1	15
71	Redundancy in lexicographic goal programming: An empirical approach. <i>European Journal of Operational Research</i> , 1989, 41, 347-354.	3.5	15
72	How to combine inconsistent ordinal and cardinal preferences: A satisficing modelling approach. <i>Computers and Industrial Engineering</i> , 2014, 67, 168-172.	3.4	14

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73	Multiple Criteria Decision-Making in Forest Planning: Recent Results and Current Challenges. , 2007, , 473-488.		14
74	Forest management optimisation models and habitat diversity: a goal programming approach. Journal of the Operational Research Society, 2002, 53, 1175-1184.	2.1	12
75	Formulating generalised "goal games" against nature: An illustration from decision-making under uncertainty in agriculture. Applied Mathematics and Computation, 2006, 175, 486-496.	1.4	11
76	Aggregation of ordinal and cardinal preferences: a framework based on distance functions. Journal of Multi-Criteria Decision Analysis, 2008, 15, 79-85.	1.0	11
77	A critical survey of optimization methods in industrial forest plantations management. Scientia Agricola, 2018, 75, 239-245.	0.6	11
78	A Note on Distributive Equity and Social Efficiency. Journal of Agricultural Economics, 2001, 52, 110-112.	1.6	10
79	Agricultural sustainable management: a normative approach based on goal programming. Journal of the Operational Research Society, 2009, 60, 534-543.	2.1	10
80	Multiple criteria decision making and economics: an introduction. Annals of Operations Research, 2016, 245, 1-5.	2.6	10
81	Bi-criteria utility functions: Analytical considerations and implications in the short-run labour market. European Journal of Operational Research, 2000, 122, 91-100.	3.5	9
82	Preface to the Special Issue on Multiple Criteria Decision Making: Current Challenges and Future Trends. International Transactions in Operational Research, 2018, 25, 759-761.	1.8	9
83	A multi-criteria approach for assigning weights in voting systems. Soft Computing, 2019, 23, 8181-8186.	2.1	9
84	Sustainability as a Multi-Criteria Concept: New Developments and Applications. Sustainability, 2020, 12, 7527.	1.6	9
85	Goal Programming via Multidimensional Scaling Applied to Senegalese Subsistence Farming: Comment. American Journal of Agricultural Economics, 1983, 65, 829-831.	2.4	8
86	Satisficing Logic And Goal Programming: Towards An Axiomatic Link. Infor, 2004, 42, 157-161.	0.5	8
87	Advances and New Orientations in Goal Programming. Multiple Criteria Decision Making, 2019, , 231-246.	0.6	8
88	The Sustainable Management of Land and Fisheries Resources Using Multicriteria Techniques: A Meta-Analysis. Land, 2020, 9, 380.	1.2	8
89	Economic optimization by compromise programming: The joint production model. Journal of Multi-Criteria Decision Analysis, 1993, 2, 65-72.	1.0	7
90	Integrating Strategic and Tactical Forest-Management Models within a Multicriteria Context. Forest Science, 2019, 65, 178-188.	0.5	7

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91	Multifunctional natural forest silviculture economics revised: Challenges in meeting landownersâ€™ and society's wants. A review. Forest Systems, 2017, 26, eR01S.	0.1	7
92	Carry on with redundancy in lexicographic goal programming. European Journal of Operational Research, 1994, 78, 441-442.	3.5	6
93	Combined Use of Goal Programming and the Analytic Hierarchy Process in Forest Management. Managing Forest Ecosystems, 2001, , 81-95.	0.4	6
94	Goal Programming: From Constrained Regression to Bounded Rationality Theories. Applied Optimization, 2010, , 311-328.	0.4	6
95	Properties underlying a preference aggregator based on satisficing logic. International Transactions in Operational Research, 2015, 22, 205-215.	1.8	6
96	Determination of the optimal externality: Efficiency versus equity. European Journal of Operational Research, 1999, 113, 183-192.	3.5	5
97	A method for obtaining transitive approximations of a binary relation. Annals of Operations Research, 2008, 163, 197-208.	2.6	5
98	In Search of a European Paper Industry Ranking in Terms of Sustainability by Using Binary Goal Programming. Lecture Notes in Economics and Mathematical Systems, 2010, , 141-149.	0.3	4
99	Portfolio Selection: A Compromise Programming Solution. , 0, .		4
100	Short communication. Economics of natural resources: in search of a unified theoretical framework. Spanish Journal of Agricultural Research, 2012, 10, 29.	0.3	4
101	How can ports act to reduce underwater noise from shipping? Identifying effective management frameworks. Marine Pollution Bulletin, 2022, 174, 113136.	2.3	4
102	GOAL PROGRAMMING AND MULTIPLE CRITERIA DECISIONâ€MAKING IN FARM PLANNING: AN EXPOSITORY ANALYSISâ€A REPLY. Journal of Agricultural Economics, 1985, 36, 425-427.	1.6	3
103	An Introductory Overview of Goal Programming (GP) and some Related Multiple Criteria Decision Making (MCDM) Approaches11Readers with a basic knowledge of MCDM can skip this chapter and go on directly to Chapter 2.. , 1991, , 1-12.		3
104	Goal Programming and Multiple Criteria Decision Making: Some Reflections. Lecture Notes in Economics and Mathematical Systems, 1997, , 192-198.	0.3	3
105	An optimum location and size model for a food-processing plant in continuous space. Agricultural Systems, 1986, 22, 71-79.	3.2	2
106	Determining Optimum Fertilizer Combinations Through Goal Programming with Penalty Functions: An Application to Sugar Beet Production in Spain. Journal of the Operational Research Society, 1988, 39, 61.	2.1	2
107	An Interactive Multigoal Programming Model for Determining Livestock Rations: An Application to Dairy Cows in Andalusia, Spain. Journal of the Operational Research Society, 1992, 43, 945.	2.1	2
108	Comments on properties of the minmax solutions in goal programming â€a reply. European Journal of Operational Research, 2001, 131, 685-686.	3.5	2

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109	Computing efficient financial strategies: An extended compromise programming approach. Applied Mathematics and Computation, 2011, 217, 7831-7837.	1.4	2
110	Optimum acceptability of telecommunications networks: a multi-criteria approach. Operational Research, 2020, 20, 1899-1911.	1.3	2
111	Multiple Criteria Decision Making: Some Connections with Economic Analysis. , 1994, , 223-232.		2
112	An analysis of the degree of circularity of the wood products industry in Europe. Journal of Industrial Ecology, 0, , .	2.8	2
113	A Note on Diet Planning in the Third World by Linear and Goal Programming. Journal of the Operational Research Society, 1984, 35, 555.	2.1	1
114	Goal Programming with Penalty Functions. , 1991, , 74-85.		1
115	Reply to Professor Ogryczak. Journal of the Operational Research Society, 2001, 52, 962-963.	2.1	1
116	Basic Aspects of the Multiple Criteria Decision Making Paradigm. Lecture Notes in Economics and Mathematical Systems, 2010, , 33-53.	0.3	1
117	Carbon Sequestration and Timber Production: A Bi-Criteria Optimisation Problem. Lecture Notes in Economics and Mathematical Systems, 1998, , 336-344.	0.3	1
118	OPTIMUM PREMIUM IN CROP DELIVERY*. Journal of Agricultural Economics, 1974, 25, 277-287.	1.6	0
119	On Misconceptions in Goal Programming. Journal of the Operational Research Society, 1991, 42, 927.	2.1	0
120	Assessment of benefits of environmental measures. Landscape and Urban Planning, 1993, 27, 50-51.	3.4	0
121	Final reply to comments of Professor Ogryczak. Journal of the Operational Research Society, 2001, 52, 964-965.	2.1	0
122	Reply to the comments of Ganjavi et al. Journal of the Operational Research Society, 2002, 53, 929-930.	2.1	0
123	Final reply to the comments of Professors Ganjavi et al. Journal of the Operational Research Society, 2002, 53, 931-931.	2.1	0
124	Compromise Policies: An Integration of Economic and Environmental Criteria. Lecture Notes in Economics and Mathematical Systems, 2010, , 101-111.	0.3	0
125	General Framework: Policy Making as a Problem with Multiple Criteria. Lecture Notes in Economics and Mathematical Systems, 2010, , 1-8.	0.3	0
126	Proposal for an Alternative Multicriteria Policy Approach Based on Welfare Functions. Lecture Notes in Economics and Mathematical Systems, 2010, , 125-133.	0.3	0



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127	Joint Design of Economic and Environmental Policies: A Simonian Satisficing Approach. Lecture Notes in Economics and Mathematical Systems, 2010, , 113-123.	0.3	0
128	Multicriteria Economic Policies: General Ideas and Some Previous Experiences. Lecture Notes in Economics and Mathematical Systems, 2010, , 55-78.	0.3	0
129	Dealing with the Sustainability Issue for Industrial Plantation Management. Managing Forest Ecosystems, 2014, , 393-413.	0.4	0
130	Good and Poor Modelling Practices in Goal Programming. , 1991, , 25-49.		0
131	Paretian Efficiency in Goal Programming (In collaboration with Tahir Rehman). , 1991, , 13-24.		0
132	Relationship between Goal Programming (GP), Multiobjective Programming (MOP) and Compromise Programming (CP). , 1991, , 86-94.		0
133	Naive Prioritization and Redundancy in LGP11This chapter is a slightly modified version of the paper: "Redundancy in Lexicographic Goal Programming: An Empirical Approach", published by Amador, F. and Romero, C. in the European Journal of Operational Research, Vol. 41, 1989, pp. 347-354.: (In) Tj ETQq1 1 0.784314 rgBT / Overlock		0
134	Dynamic Choices in Economics: A Compromise Approach. Lecture Notes in Economics and Mathematical Systems, 1996, , 11-24.	0.3	0
135	Work-leisure Trade-off in a Workers' Enterprise: A Decision Analysis Approach. , 1998, , 173-180.		0
136	Prologo. El profesor Enrique Ballesteros: un ilustrado en el siglo XX. Economia Agraria Y Recursos Naturales, 2015, 15, 5-10.	0.1	0