Elena Fernandez

List of Publications by Citations

84 papers	2,309 citations	29 h-index	45 g-index
86 ext. papers	2,619 ext. citations	3.8 avg, IF	5.33 L-index

#	Paper	IF	Citations
84	A compact model and tight bounds for a combined location-routing problem. *Computers and Operations Research*, **2005**, 32, 407-428	4.6	120
83	Heuristic solutions to the problem of routing school buses with multiple objectives. *Journal of the Operational Research Society*, **2002**, 53, 427-435	2	110
82	The Tree of Hubs Location Problem. *European Journal of Operational Research*, **2010**, 202, 390-400	5.6	105
81	General network design: A unified view of combined location and network design problems. *European Journal of Operational Research*, **2012**, 219, 680-697	5.6	96
80	A Tabu search heuristic for the generalized assignment problem. *European Journal of Operational Research*, **2001**, 132, 22-38	5.6	94
79	A reactive GRASP for a commercial territory design problem with multiple balancing requirements. *Computers and Operations Research*, **2009**, 36, 755-776	4.6	82
78	Solving an urban waste collection problem using ants heuristics. *Computers and Operations Research*, **2008**, 35, 3020-3033	4.6	78
77	Heuristic and lower bound for a stochastic location-routing problem. *European Journal of Operational Research*, **2007**, 179, 940-955	5.6	64
76	Tight bounds from a path based formulation for the tree of hub location problem. *Computers and Operations Research*, **2009**, 36, 3117-3127	4.6	63
75	Branch and Price for Large-Scale Capacitated Hub Location Problems with Single Assignment. *INFORMS Journal on Computing*, **2011**, 23, 41-55	2.4	61
74	Lagrangean relaxation for the capacitated hub location problem with single assignment. *OR Spectrum*, **2009**, 31, 483-505	1.9	60
73	The multi-period incremental service facility location problem. *Computers and Operations Research*, **2009**, 36, 1356-1375	4.6	60
72	Reactive Grasp And Tabu Search Based Heuristics For The Single Source Capacitated Plant Location Problem. *Infor*, **1999**, 37, 194-225	0.5	58
71	Hybrid scatter search and path relinking for the capacitated p-median problem. *European Journal of Operational Research*, **2006**, 169, 570-585	5.6	57
70	Solving the Prize-collecting Rural Postman Problem. *European Journal of Operational Research*, **2009**, 196, 886-896	5.6	49
69	Multiperiod Location-Routing with Decoupled Time Scales. *European Journal of Operational Research*, **2012**, 217, 248-258	5.6	48
68	The Shared Customer Collaboration Vehicle Routing Problem. *European Journal of Operational Research*, **2018**, 265, 1078-1093	5.6	45

67	A Branch-and-Price algorithm for the Single Source Capacitated Plant Location Problem. *Journal of the Operational Research Society*, **2002**, 53, 728-740	2	45
66	Computational results from a new Lagrangean relaxation algorithm for the capacitated plant location problem. *European Journal of Operational Research*, **1991**, 53, 38-45	5.6	45
65	Privatized rural postman problems. *Computers and Operations Research*, **2006**, 33, 3432-3449	4.6	43
64	The dynamic multiperiod vehicle routing problem with probabilistic information. *Computers and Operations Research*, **2014**, 48, 31-39	4.6	42
63	Minimizing the maximum travel time in a combined model of facility location and network design. *Omega*, **2012**, 40, 847-860	7.2	39
62	Multiobjective solution of the uncapacitated plant location problem. *European Journal of Operational Research*, **2003**, 145, 509-529	5.6	39
61	The facility location problem with Bernoulli demands. *Omega*, **2011**, 39, 335-345	7.2	37
60	Fix-and-Relax-Coordination for a multi-period location□allocation problem under uncertainty. *Computers and Operations Research*, **2013**, 40, 2878-2892	4.6	36
59	The Flexible Periodic Vehicle Routing Problem. *Computers and Operations Research*, **2017**, 85, 58-70	4.6	35
58	A novel maximum dispersion territory design model arising in the implementation of the WEEE-directive. *Journal of the Operational Research Society*, **2010**, 61, 503-514	2	33
57	Mosaicking of Aerial Photographic Maps Via Seams Defined by Bottleneck Shortest Paths. *Operations Research*, **1998**, 46, 293-304	2.3	32
56	On the Collaboration Uncapacitated Arc Routing Problem. *Computers and Operations Research*, **2016**, 67, 120-131	4.6	31
55	The recoverable robust facility location problem. *Transportation Research Part B: Methodological*, **2015**, 79, 93-120	7.2	28
54	Hub network design problems with profits. *Transportation Research, Part E: Logistics and Transportation Review*, **2016**, 96, 40-59	9	28
53	Hub Location as the Minimization of a Supermodular Set Function. *Operations Research*, **2014**, 62, 557-570	2.3	28
52	GRASP for Seam Drawing in Mosaicking of Aerial Photographic Maps. *Journal of Heuristics*, **1999**, 5, 181-197	1.7	28
51	The Clustered Prize-Collecting Arc Routing Problem. *Transportation Science*, **2009**, 43, 287-300	4.4	27
50	A biased random-key genetic algorithm for the capacitated minimum spanning tree problem. *Computers and Operations Research*, **2015**, 57, 95-108	4.6	24

49	The capacity and distance constrained plant location problem. *Computers and Operations Research*, **2009**, 36, 597-611	4.6	24
48	Lagrangean duals and exact solution to the capacitated p-center problem. *European Journal of Operational Research*, **2010**, 201, 71-81	5.6	23
47	Exact solutions to a class of stochastic generalized assignment problems. *European Journal of Operational Research*, **2006**, 173, 465-487	5.6	23
46	The Windy Clustered Prize-Collecting Arc-Routing Problem. *Transportation Science*, **2011**, 45, 317-334	4.4	22
45	Parking slot assignment for urban distribution: Models and formulations. *Omega*, **2015**, 57, 157-175	7.2	21
44	On the Undirected Rural Postman Problem: Tight Bounds Based on a New Formulation. *Operations Research*, **2003**, 51, 281-291	2.3	21
43	Exact solution of hub network design problems with profits. *European Journal of Operational Research*, **2018**, 266, 57-71	5.6	19
42	Ordered weighted average combinatorial optimization: Formulations and their properties. *Discrete Applied Mathematics*, **2014**, 169, 97-118	1	19
41	A novel model for arc territory design: promoting Eulerian districts. *International Transactions in Operational Research*, **2016**, 23, 433-458	2.9	19
40	The maximum dispersion problem. *Omega*, **2013**, 41, 721-730	7.2	16
39	A computational comparison of several formulations for the multi-period incremental service facility location problem. *Top*, **2010**, 18, 62-80	1.3	15
38	An Evaluation of Urban Consolidation Centers Through Continuous Analysis with Non-equal Market Share Companies. *Transportation Research Procedia*, **2016**, 12, 370-382	2.4	14
37	Analysis of Satellite Constellations for the Continuous Coverage of Ground Regions. *Journal of Spacecraft and Rockets*, **2017**, 54, 1294-1303	1.5	12
36	On carriers collaboration in hub location problems. *European Journal of Operational Research*, **2020**, 283, 476-490	5.6	12
35	New algorithmic framework for conditional value at risk: Application to stochastic fixed-charge transportation. *European Journal of Operational Research*, **2019**, 277, 215-226	5.6	11
34	A Branch-and-Cut Algorithm for the Multidepot Rural Postman Problem. *Transportation Science*, **2018**, 52, 353-369	4.4	11
33	Ordered Weighted Average optimization in Multiobjective Spanning Tree Problem. *European Journal of Operational Research*, **2017**, 260, 886-903	5.6	10
32	A computational comparison of several models for the exact solution of the capacity and distance constrained plant location problem. *Computers and Operations Research*, **2011**, 38, 1109-1116	4.6	10

31	Lagrangean bounds for the optimum communication spanning tree problem. *Top*, **2010**, 18, 140-157	1.3	10
30	The stochastic generalised assignment problem with Bernoulli demands. *Top*, **2000**, 8, 165-190	1.3	10
29	Heuristic Solutions to the Facility Location Problem with General Bernoulli Demands. *INFORMS Journal on Computing*, **2017**, 29, 737-753	2.4	9
28	On discrete optimization with ordering. *Annals of Operations Research*, **2013**, 207, 83-96	3.2	9
27	Multi-depot rural postman problems. *Top*, **2017**, 25, 340-372	1.3	8
26	Thek-centrum shortest path problem. *Top*, **2006**, 14, 279-292	1.3	8
25	A two-phase solution algorithm for the Flexible Periodic Vehicle Routing Problem. *Computers and Operations Research*, **2018**, 99, 27-37	4.6	8
24	Empowering financial tradeoff with joint financial and supply chain planning models. *Mathematical and Computer Modelling*, **2007**, 46, 12-23		7
23	The Generalized Arc Routing Problem. *Top*, **2017**, 25, 497-525	1.3	6
22	Exact Solution of Several Families of Location-Arc Routing Problems. *Transportation Science*, **2019**, 53, 1313-1333	4.4	6
21	A Flow Formulation for the Optimum Communication Spanning Tree. *Electronic Notes in Discrete Mathematics*, **2013**, 41, 85-92	0.3	6
20	GRASP and Path Relinking for the Clustered Prize-collecting Arc Routing Problem. *Journal of Heuristics*, **2013**, 19, 343-371	1.9	6
19	GEVA: geometric variability-based approaches for identifying patterns in data. *Computational Statistics*, **2010**, 25, 241-255	1	6
18	On the fuzzy maximal covering location problem. *European Journal of Operational Research*, **2020**, 283, 692-705	5.6	6
17	Solving the optimum communication spanning tree problem. *European Journal of Operational Research*, **2019**, 273, 108-117	5.6	5
16	Minimum Spanning Trees with neighborhoods: Mathematical programming formulations and solution methods. *European Journal of Operational Research*, **2017**, 262, 863-878	5.6	4
15	Filtering Policies in Loss Queuing Network Location Problems. *Annals of Operations Research*, **2005**, 136, 259-283	3.2	4
14	Partial cover and complete cover inequalities. *Operations Research Letters*, **1994**, 15, 19-33	1	4

13	The Single Period Coverage Facility Location Problem: Lagrangean heuristic and column generation approaches. *Top*, **2010**, 18, 43-61	1.3	3
12	Design of an interactive spell checker: optimizing the list of offered words. *Decision Support Systems*, **2003**, 35, 385-397	5.6	3
11	A branch-and-price algorithm for the Aperiodic Multi-Period Service Scheduling Problem. *European Journal of Operational Research*, **2017**, 263, 805-814	5.6	2
10	The Steiner Traveling Salesman Problem and its extensions. *European Journal of Operational Research*, **2019**, 278, 615-628	5.6	2
9	Location routing problems on trees. *Discrete Applied Mathematics*, **2019**, 259, 1-18	1	1
8	Fixed-Charge Facility Location Problems **2015**, 47-77		1
7	Scheduling policies for multi-period services. *European Journal of Operational Research*, **2016**, 251, 751-776	3.6	1
6	CLUM: A cluster program for analyzing microarray data. *Russian Journal of Genetics*, **2008**, 44, 993-996	0.6	1
5	Fixed-Charge Facility Location Problems **2019**, 67-98		1
4	The Heterogeneous Flexible Periodic Vehicle Routing Problem: Mathematical formulations and solution algorithms. *Computers and Operations Research*, **2022**, 141, 105662	4.6	0
3	New formulations and solutions for the strategic berth template problem. *European Journal of Operational Research*, **2021**, 298, 99-99	5.6	0
2	Preface: Operations research and systems (ALIO/INFORMS Joint International Meeting). *Annals of Operations Research*, **2012**, 199, 1-2	3.2	
1	Even Cycles and Perfect Matching Problems with Side Constraints. *Journal of Combinatorial Optimization*, **2004**, 8, 381-396	0.9	