

# Elena 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.

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	The Heterogeneous Flexible Periodic Vehicle Routing Problem: Mathematical formulations and solution algorithms. <i>Computers and Operations Research</i> , <b>2022</b> , 141, 105662	4.6	0
83	New formulations and solutions for the strategic berth template problem. <i>European Journal of Operational Research</i> , <b>2021</b> , 298, 99-99	5.6	0
82	On the fuzzy maximal covering location problem. <i>European Journal of Operational Research</i> , <b>2020</b> , 283, 692-705	5.6	6
81	On carriers collaboration in hub location problems. <i>European Journal of Operational Research</i> , <b>2020</b> , 283, 476-490	5.6	12
80	Location routing problems on trees. <i>Discrete Applied Mathematics</i> , <b>2019</b> , 259, 1-18	1	1
79	The Steiner Traveling Salesman Problem and its extensions. <i>European Journal of Operational Research</i> , <b>2019</b> , 278, 615-628	5.6	2
78	New algorithmic framework for conditional value at risk: Application to stochastic fixed-charge transportation. <i>European Journal of Operational Research</i> , <b>2019</b> , 277, 215-226	5.6	11
77	Solving the optimum communication spanning tree problem. <i>European Journal of Operational Research</i> , <b>2019</b> , 273, 108-117	5.6	5
76	Exact Solution of Several Families of Location-Arc Routing Problems. <i>Transportation Science</i> , <b>2019</b> , 53, 1313-1333	4.4	6
75	Fixed-Charge Facility Location Problems <b>2019</b> , 67-98		1
74	Exact solution of hub network design problems with profits. <i>European Journal of Operational Research</i> , <b>2018</b> , 266, 57-71	5.6	19
73	A Branch-and-Cut Algorithm for the Multidepot Rural Postman Problem. <i>Transportation Science</i> , <b>2018</b> , 52, 353-369	4.4	11
72	The Shared Customer Collaboration Vehicle Routing Problem. <i>European Journal of Operational Research</i> , <b>2018</b> , 265, 1078-1093	5.6	45
71	A two-phase solution algorithm for the Flexible Periodic Vehicle Routing Problem. <i>Computers and Operations Research</i> , <b>2018</b> , 99, 27-37	4.6	8
70	The Generalized Arc Routing Problem. <i>Top</i> , <b>2017</b> , 25, 497-525	1.3	6
69	Minimum Spanning Trees with neighborhoods: Mathematical programming formulations and solution methods. <i>European Journal of Operational Research</i> , <b>2017</b> , 262, 863-878	5.6	4
68	A branch-and-price algorithm for the Aperiodic Multi-Period Service Scheduling Problem. <i>European Journal of Operational Research</i> , <b>2017</b> , 263, 805-814	5.6	2

67	The Flexible Periodic Vehicle Routing Problem. <i>Computers and Operations Research</i> , <b>2017</b> , 85, 58-70	4.6	35
66	Heuristic Solutions to the Facility Location Problem with General Bernoulli Demands. <i>INFORMS Journal on Computing</i> , <b>2017</b> , 29, 737-753	2.4	9
65	Analysis of Satellite Constellations for the Continuous Coverage of Ground Regions. <i>Journal of Spacecraft and Rockets</i> , <b>2017</b> , 54, 1294-1303	1.5	12
64	Multi-depot rural postman problems. <i>Top</i> , <b>2017</b> , 25, 340-372	1.3	8
63	Ordered Weighted Average optimization in Multiobjective Spanning Tree Problem. <i>European Journal of Operational Research</i> , <b>2017</b> , 260, 886-903	5.6	10
62	Hub network design problems with profits. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , <b>2016</b> , 96, 40-59	9	28
61	An Evaluation of Urban Consolidation Centers Through Continuous Analysis with Non-equal Market Share Companies. <i>Transportation Research Procedia</i> , <b>2016</b> , 12, 370-382	2.4	14
60	Scheduling policies for multi-period services. <i>European Journal of Operational Research</i> , <b>2016</b> , 251, 751-770	3.6	1
59	On the Collaboration Uncapacitated Arc Routing Problem. <i>Computers and Operations Research</i> , <b>2016</b> , 67, 120-131	4.6	31
58	A novel model for arc territory design: promoting Eulerian districts. <i>International Transactions in Operational Research</i> , <b>2016</b> , 23, 433-458	2.9	19
57	The recoverable robust facility location problem. <i>Transportation Research Part B: Methodological</i> , <b>2015</b> , 79, 93-120	7.2	28
56	Parking slot assignment for urban distribution: Models and formulations. <i>Omega</i> , <b>2015</b> , 57, 157-175	7.2	21
55	Fixed-Charge Facility Location Problems <b>2015</b> , 47-77		1
54	A biased random-key genetic algorithm for the capacitated minimum spanning tree problem. <i>Computers and Operations Research</i> , <b>2015</b> , 57, 95-108	4.6	24
53	The dynamic multiperiod vehicle routing problem with probabilistic information. <i>Computers and Operations Research</i> , <b>2014</b> , 48, 31-39	4.6	42
52	Ordered weighted average combinatorial optimization: Formulations and their properties. <i>Discrete Applied Mathematics</i> , <b>2014</b> , 169, 97-118	1	19
51	Hub Location as the Minimization of a Supermodular Set Function. <i>Operations Research</i> , <b>2014</b> , 62, 557-570	3.3	28
50	On discrete optimization with ordering. <i>Annals of Operations Research</i> , <b>2013</b> , 207, 83-96	3.2	9

49	A Flow Formulation for the Optimum Communication Spanning Tree. <i>Electronic Notes in Discrete Mathematics</i> , <b>2013</b> , 41, 85-92	0.3	6
48	Fix-and-Relax-Coordination for a multi-period location-allocation problem under uncertainty. <i>Computers and Operations Research</i> , <b>2013</b> , 40, 2878-2892	4.6	36
47	The maximum dispersion problem. <i>Omega</i> , <b>2013</b> , 41, 721-730	7.2	16
46	GRASP and Path Relinking for the Clustered Prize-collecting Arc Routing Problem. <i>Journal of Heuristics</i> , <b>2013</b> , 19, 343-371	1.9	6
45	Multiperiod Location-Routing with Decoupled Time Scales. <i>European Journal of Operational Research</i> , <b>2012</b> , 217, 248-258	5.6	48
44	General network design: A unified view of combined location and network design problems. <i>European Journal of Operational Research</i> , <b>2012</b> , 219, 680-697	5.6	96
43	Minimizing the maximum travel time in a combined model of facility location and network design. <i>Omega</i> , <b>2012</b> , 40, 847-860	7.2	39
42	Preface: Operations research and systems (ALIO/INFORMS Joint International Meeting). <i>Annals of Operations Research</i> , <b>2012</b> , 199, 1-2	3.2	
41	Branch and Price for Large-Scale Capacitated Hub Location Problems with Single Assignment. <i>INFORMS Journal on Computing</i> , <b>2011</b> , 23, 41-55	2.4	61
40	The facility location problem with Bernoulli demands. <i>Omega</i> , <b>2011</b> , 39, 335-345	7.2	37
39	A computational comparison of several models for the exact solution of the capacity and distance constrained plant location problem. <i>Computers and Operations Research</i> , <b>2011</b> , 38, 1109-1116	4.6	10
38	The Windy Clustered Prize-Collecting Arc-Routing Problem. <i>Transportation Science</i> , <b>2011</b> , 45, 317-334	4.4	22
37	A novel maximum dispersion territory design model arising in the implementation of the WEEE-directive. <i>Journal of the Operational Research Society</i> , <b>2010</b> , 61, 503-514	2	33
36	GEVA: geometric variability-based approaches for identifying patterns in data. <i>Computational Statistics</i> , <b>2010</b> , 25, 241-255	1	6
35	Lagrangian duals and exact solution to the capacitated p-center problem. <i>European Journal of Operational Research</i> , <b>2010</b> , 201, 71-81	5.6	23
34	The Single Period Coverage Facility Location Problem: Lagrangian heuristic and column generation approaches. <i>Top</i> , <b>2010</b> , 18, 43-61	1.3	3
33	A computational comparison of several formulations for the multi-period incremental service facility location problem. <i>Top</i> , <b>2010</b> , 18, 62-80	1.3	15
32	Lagrangian bounds for the optimum communication spanning tree problem. <i>Top</i> , <b>2010</b> , 18, 140-157	1.3	10

31	The Tree of Hubs Location Problem. <i>European Journal of Operational Research</i> , <b>2010</b> , 202, 390-400	5.6	105
30	The Clustered Prize-Collecting Arc Routing Problem. <i>Transportation Science</i> , <b>2009</b> , 43, 287-300	4.4	27
29	The capacity and distance constrained plant location problem. <i>Computers and Operations Research</i> , <b>2009</b> , 36, 597-611	4.6	24
28	Lagrangian relaxation for the capacitated hub location problem with single assignment. <i>OR Spectrum</i> , <b>2009</b> , 31, 483-505	1.9	60
27	Solving the Prize-collecting Rural Postman Problem. <i>European Journal of Operational Research</i> , <b>2009</b> , 196, 886-896	5.6	49
26	A reactive GRASP for a commercial territory design problem with multiple balancing requirements. <i>Computers and Operations Research</i> , <b>2009</b> , 36, 755-776	4.6	82
25	The multi-period incremental service facility location problem. <i>Computers and Operations Research</i> , <b>2009</b> , 36, 1356-1375	4.6	60
24	Tight bounds from a path based formulation for the tree of hub location problem. <i>Computers and Operations Research</i> , <b>2009</b> , 36, 3117-3127	4.6	63
23	Solving an urban waste collection problem using ants heuristics. <i>Computers and Operations Research</i> , <b>2008</b> , 35, 3020-3033	4.6	78
22	CLUM: A cluster program for analyzing microarray data. <i>Russian Journal of Genetics</i> , <b>2008</b> , 44, 993-996	0.6	1
21	Empowering financial tradeoff with joint financial and supply chain planning models. <i>Mathematical and Computer Modelling</i> , <b>2007</b> , 46, 12-23		7
20	Heuristic and lower bound for a stochastic location-routing problem. <i>European Journal of Operational Research</i> , <b>2007</b> , 179, 940-955	5.6	64
19	Privatized rural postman problems. <i>Computers and Operations Research</i> , <b>2006</b> , 33, 3432-3449	4.6	43
18	Hybrid scatter search and path relinking for the capacitated p-median problem. <i>European Journal of Operational Research</i> , <b>2006</b> , 169, 570-585	5.6	57
17	Thek-centrum shortest path problem. <i>Top</i> , <b>2006</b> , 14, 279-292	1.3	8
16	Exact solutions to a class of stochastic generalized assignment problems. <i>European Journal of Operational Research</i> , <b>2006</b> , 173, 465-487	5.6	23
15	Filtering Policies in Loss Queuing Network Location Problems. <i>Annals of Operations Research</i> , <b>2005</b> , 136, 259-283	3.2	4
14	A compact model and tight bounds for a combined location-routing problem. <i>Computers and Operations Research</i> , <b>2005</b> , 32, 407-428	4.6	120

13	Even Cycles and Perfect Matching Problems with Side Constraints. <i>Journal of Combinatorial Optimization</i> , <b>2004</b> , 8, 381-396	0.9	
12	On the Undirected Rural Postman Problem: Tight Bounds Based on a New Formulation. <i>Operations Research</i> , <b>2003</b> , 51, 281-291	2.3	21
11	Design of an interactive spell checker: optimizing the list of offered words. <i>Decision Support Systems</i> , <b>2003</b> , 35, 385-397	5.6	3
10	Multiobjective solution of the uncapacitated plant location problem. <i>European Journal of Operational Research</i> , <b>2003</b> , 145, 509-529	5.6	39
9	Heuristic solutions to the problem of routing school buses with multiple objectives. <i>Journal of the Operational Research Society</i> , <b>2002</b> , 53, 427-435	2	110
8	A Branch-and-Price algorithm for the Single Source Capacitated Plant Location Problem. <i>Journal of the Operational Research Society</i> , <b>2002</b> , 53, 728-740	2	45
7	A Tabu search heuristic for the generalized assignment problem. <i>European Journal of Operational Research</i> , <b>2001</b> , 132, 22-38	5.6	94
6	The stochastic generalised assignment problem with Bernoulli demands. <i>Top</i> , <b>2000</b> , 8, 165-190	1.3	10
5	GRASP for Seam Drawing in Mosaicking of Aerial Photographic Maps. <i>Journal of Heuristics</i> , <b>1999</b> , 5, 181-197	1.7	28
4	Reactive Grasp And Tabu Search Based Heuristics For The Single Source Capacitated Plant Location Problem. <i>Infor</i> , <b>1999</b> , 37, 194-225	0.5	58
3	Mosaicking of Aerial Photographic Maps Via Seams Defined by Bottleneck Shortest Paths. <i>Operations Research</i> , <b>1998</b> , 46, 293-304	2.3	32
2	Partial cover and complete cover inequalities. <i>Operations Research Letters</i> , <b>1994</b> , 15, 19-33	1	4
1	Computational results from a new Lagrangean relaxation algorithm for the capacitated plant location problem. <i>European Journal of Operational Research</i> , <b>1991</b> , 53, 38-45	5.6	45