

Rafael Marti

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150
papers

4,383
citations

35
h-index

61
g-index

153
ext. papers

4,977
ext. citations

3.4
avg, IF

5.75
L-index

#	Paper	IF	Citations
150	Scatter Search and Local NLP Solvers: A Multistart Framework for Global Optimization. <i>INFORMS Journal on Computing</i> , 2007 , 19, 328-340	2.4	405
149	Principles of scatter search. <i>European Journal of Operational Research</i> , 2006 , 169, 359-372	5.6	268
148	GRASP and Path Relinking for 2-Layer Straight Line Crossing Minimization. <i>INFORMS Journal on Computing</i> , 1999 , 11, 44-52	2.4	228
147	GRASP and path relinking for the maximum diversity problem. <i>Computers and Operations Research</i> , 2010 , 37, 498-508	4.6	129
146	Scatter search for chemical and bio-process optimization. <i>Journal of Global Optimization</i> , 2007 , 37, 481-503	5.3	129
145	Experimental Testing of Advanced Scatter Search Designs for Global Optimization of Multimodal Functions. <i>Journal of Global Optimization</i> , 2005 , 33, 235-255	1.5	117
144	Heuristic solutions to the problem of routing school buses with multiple objectives. <i>Journal of the Operational Research Society</i> , 2002 , 53, 427-435	2	110
143	Multi-start methods for combinatorial optimization. <i>European Journal of Operational Research</i> , 2013 , 226, 1-8	5.6	95
142	An evolutionary method for complex-process optimization. <i>Computers and Operations Research</i> , 2010 , 37, 315-324	4.6	93
141	An Experimental Evaluation of a Scatter Search for the Linear Ordering Problem. <i>Journal of Global Optimization</i> , 2001 , 21, 397-414	1.5	87
140	Intensification and diversification with elite tabu search solutions for the linear ordering problem. <i>Computers and Operations Research</i> , 1999 , 26, 1217-1230	4.6	87
139	Tabu search and GRASP for the maximum diversity problem. <i>European Journal of Operational Research</i> , 2007 , 178, 71-84	5.6	84
138	Advanced Scatter Search for the Max-Cut Problem. <i>INFORMS Journal on Computing</i> , 2009 , 21, 26-38	2.4	74
137	GRASP and path relinking for the matrix bandwidth minimization. <i>European Journal of Operational Research</i> , 2004 , 153, 200-210	5.6	72
136	SSPMO: A Scatter Tabu Search Procedure for Non-Linear Multiobjective Optimization. <i>INFORMS Journal on Computing</i> , 2007 , 19, 91-100	2.4	69
135	Multi-Start Methods 2003 , 355-368		69
134	Reducing the bandwidth of a sparse matrix with tabu search. <i>European Journal of Operational Research</i> , 2001 , 135, 450-459	5.6	68

133	Tabu search for a multi-objective routing problem. <i>Journal of the Operational Research Society</i> , 2006 , 57, 29-37	2	66
132	The Linear Ordering Problem. <i>Applied Mathematical Sciences (Switzerland)</i> , 2011 ,	0.9	57
131	A branch and bound algorithm for the maximum diversity problem. <i>European Journal of Operational Research</i> , 2010 , 200, 36-44	5.6	53
130	Context-Independent Scatter and Tabu Search for Permutation Problems. <i>INFORMS Journal on Computing</i> , 2005 , 17, 111-122	2.4	53
129	Scatter Search and Path Relinking: Advances and Applications 2003 , 1-35		52
128	Scatter Search and Path-Relinking: Fundamentals, Advances, and Applications. <i>Profiles in Operations Research</i> , 2010 , 87-107	1	50
127	Multiobjective GRASP with Path Relinking. <i>European Journal of Operational Research</i> , 2015 , 240, 54-71	5.6	48
126	Tabu search with strategic oscillation for the maximally diverse grouping problem. <i>Journal of the Operational Research Society</i> , 2013 , 64, 724-734	2	47
125	Heuristics and metaheuristics for the maximum diversity problem. <i>Journal of Heuristics</i> , 2013 , 19, 591-615	5.9	46
124	Variable neighborhood search for the Vertex Separation Problem. <i>Computers and Operations Research</i> , 2012 , 39, 3247-3255	4.6	42
123	Greedy randomized adaptive search procedure with exterior path relinking for differential dispersion minimization. <i>Information Sciences</i> , 2015 , 296, 46-60	7.7	41
122	Scatter search for the cutwidth minimization problem. <i>Annals of Operations Research</i> , 2012 , 199, 285-304	3.2	41
121	GRASP with path relinking for the orienteering problem. <i>Journal of the Operational Research Society</i> , 2014 , 65, 1800-1813	2	40
120	Hybrid scatter tabu search for unconstrained global optimization. <i>Annals of Operations Research</i> , 2011 , 183, 95-123	3.2	37
119	Variable neighborhood search for the linear ordering problem. <i>Computers and Operations Research</i> , 2006 , 33, 3549-3565	4.6	37
118	A GRASP for Coloring Sparse Graphs. <i>Computational Optimization and Applications</i> , 2001 , 19, 165-178	1.4	37
117	GRASP for the uncapacitated r-allocation p-hub median problem. <i>Computers and Operations Research</i> , 2014 , 43, 50-60	4.6	36
116	Heuristics for the bi-objective path dissimilarity problem. <i>Computers and Operations Research</i> , 2009 , 36, 2905-2912	4.6	36

115	GRASP with path relinking heuristics for the antibandwidth problem. <i>Networks</i> , 2011 , 58, 171-189	1.6	34
114	Scatter Search Wellsprings and Challenges. <i>European Journal of Operational Research</i> , 2006 , 169, 351-358	5.6	34
113	Improved scatter search for the global optimization of computationally expensive dynamic models. <i>Journal of Global Optimization</i> , 2009 , 43, 175-190	1.5	33
112	Hybrid heuristics for the maximum diversity problem. <i>Computational Optimization and Applications</i> , 2009 , 44, 411-426	1.4	32
111	A branch and bound algorithm for the matrix bandwidth minimization. <i>European Journal of Operational Research</i> , 2008 , 186, 513-528	5.6	32
110	A benchmark library and a comparison of heuristic methods for the linear ordering problem. <i>Computational Optimization and Applications</i> , 2012 , 51, 1297-1317	1.4	30
109	Scatter search for an uncapacitated p-hub median problem. <i>Computers and Operations Research</i> , 2015 , 58, 53-66	4.6	29
108	Tabu Search 2006 , 53-69		29
107	GRASP and path relinking for the equitable dispersion problem. <i>Computers and Operations Research</i> , 2013 , 40, 3091-3099	4.6	28
106	Adaptive memory programming for constrained global optimization. <i>Computers and Operations Research</i> , 2010 , 37, 1500-1509	4.6	28
105	GRASP for Seam Drawing in Mosaicking of Aerial Photographic Maps. <i>Journal of Heuristics</i> , 1999 , 5, 181-197	1.9	28
104	Scatter Search for the Point-Matching Problem in 3D Image Registration. <i>INFORMS Journal on Computing</i> , 2008 , 20, 55-68	2.4	27
103	A GRASP heuristic for the mixed Chinese postman problem. <i>European Journal of Operational Research</i> , 2002 , 142, 70-80	5.6	26
102	Neural network prediction in a system for optimizing simulations. <i>IIE Transactions</i> , 2002 , 34, 273-282		26
101	A branch and bound algorithm for minimizing the number of crossing arcs in bipartite graphs. <i>European Journal of Operational Research</i> , 1996 , 90, 303-319	5.6	26
100	A black-box scatter search for optimization problems with integer variables. <i>Journal of Global Optimization</i> , 2014 , 58, 497-516	1.5	25
99	Arc crossing minimization in hierarchical digraphs with tabu search. <i>Computers and Operations Research</i> , 1997 , 24, 1175-1186	4.6	24
98	Advanced Greedy Randomized Adaptive Search Procedure for the Obnoxious p-Median problem. <i>European Journal of Operational Research</i> , 2016 , 252, 432-442	5.6	23

97	A hybrid metaheuristic for the cyclic antibandwidth problem. <i>Knowledge-Based Systems</i> , 2013 , 54, 103-113	7.3	22
96	Tabu search for the Max-Mean Dispersion Problem. <i>Knowledge-Based Systems</i> , 2015 , 85, 256-264	7.3	22
95	Variable neighborhood search with ejection chains for the antibandwidth problem. <i>Journal of Heuristics</i> , 2012 , 18, 919-938	1.9	22
94	The Rural Postman Problem on mixed graphs with turn penalties. <i>Computers and Operations Research</i> , 2002 , 29, 887-903	4.6	21
93	Advanced Multi-start Methods. <i>Profiles in Operations Research</i> , 2010 , 265-281	1	21
92	Black box scatter search for general classes of binary optimization problems. <i>Computers and Operations Research</i> , 2010 , 37, 1977-1986	4.6	20
91	Scatter Search vs. Genetic Algorithms 2005 , 263-282		20
90	Metaheuristics for the linear ordering problem with cumulative costs. <i>European Journal of Operational Research</i> , 2012 , 216, 270-277	5.6	19
89	Improved heuristics for the regenerator location problem. <i>International Transactions in Operational Research</i> , 2014 , 21, 541-558	2.9	19
88	Tabu search with strategic oscillation for the quadratic minimum spanning tree. <i>IIE Transactions</i> , 2014 , 46, 414-428		19
87	Path relinking for large-scale global optimization. <i>Soft Computing</i> , 2011 , 15, 2257-2273	3.5	19
86	Hybridizing the cross-entropy method: An application to the max-cut problem. <i>Computers and Operations Research</i> , 2009 , 36, 487-498	4.6	19
85	Heuristics and meta-heuristics for 2-layer straight line crossing minimization. <i>Discrete Applied Mathematics</i> , 2003 , 127, 665-678	1	19
84	Scatter Search and Path Relinking: Foundations and Advanced Designs. <i>Studies in Fuzziness and Soft Computing</i> , 2004 , 87-99	0.7	19
83	Heuristics for the capacitated modular hub location problem. <i>Computers and Operations Research</i> , 2017 , 86, 94-109	4.6	19
82	Strategic oscillation for the quadratic multiple knapsack problem. <i>Computational Optimization and Applications</i> , 2014 , 58, 161-185	1.4	18
81	Branch and bound for the cutwidth minimization problem. <i>Computers and Operations Research</i> , 2013 , 40, 137-149	4.6	18
80	Tabu search for the linear ordering problem with cumulative costs. <i>Computational Optimization and Applications</i> , 2011 , 48, 697-715	1.4	17

79	Heuristics for the Mixed Rural Postman Problem. <i>Computers and Operations Research</i> , 2000 , 27, 183-203	4.6	17
78	Tabu search and GRASP for the capacitated clustering problem. <i>Computational Optimization and Applications</i> , 2015 , 62, 589-607	1.4	16
77	Multi-objective memetic optimization for the bi-objective obnoxious p-median problem. <i>Knowledge-Based Systems</i> , 2018 , 144, 88-101	7.3	16
76	A tabu search algorithm for the bipartite drawing problem. <i>European Journal of Operational Research</i> , 1998 , 106, 558-569	5.6	16
75	Multilayer neural networks: an experimental evaluation of on-line training methods. <i>Computers and Operations Research</i> , 2004 , 31, 1491-1513	4.6	16
74	A Multistart Scatter Search Heuristic for Smooth NLP and MINLP Problems 2005 , 25-57		16
73	Iterated greedy with variable neighborhood search for a multiobjective waste collection problem. <i>Expert Systems With Applications</i> , 2020 , 145, 113101	7.8	16
72	Optimization procedures for the bipartite unconstrained 0-1 quadratic programming problem. <i>Computers and Operations Research</i> , 2014 , 51, 123-129	4.6	15
71	Scatter tabu search for multiobjective clustering problems. <i>Journal of the Operational Research Society</i> , 2011 , 62, 2034-2046	2	14
70	GRASP and Path Relinking for the Two-Dimensional Two-Stage Cutting-Stock Problem. <i>INFORMS Journal on Computing</i> , 2007 , 19, 261-272	2.4	14
69	A review of the role of heuristics in stochastic optimisation: from metaheuristics to learnheuristics. <i>Annals of Operations Research</i> , 1	3.2	14
68	Tabu search for the dynamic Bipartite Drawing Problem. <i>Computers and Operations Research</i> , 2018 , 91, 1-12	4.6	14
67	Scatter search for the profile minimization problem. <i>Networks</i> , 2015 , 65, 10-21	1.6	12
66	Elbow septic arthritis in children: clinical presentation and management. <i>Journal of Pediatric Orthopaedics Part B</i> , 2010 , 19, 281-4	1.4	12
65	Path relinking and GRG for artificial neural networks. <i>European Journal of Operational Research</i> , 2006 , 169, 508-519	5.6	12
64	Heuristic solution approaches for the maximum minsum dispersion problem. <i>Journal of Global Optimization</i> , 2017 , 67, 671-686	1.5	11
63	Strategic oscillation for the capacitated hub location problem with modular links. <i>Journal of Heuristics</i> , 2016 , 22, 221-244	1.9	11
62	GRASP and path relinking hybridizations for the point matching-based image registration problem. <i>Journal of Heuristics</i> , 2012 , 18, 169-192	1.9	11

61	Designing effective improvement methods for scatter search: an experimental study on global optimization. <i>Soft Computing</i> , 2013 , 17, 49-62	3.5	11
60	A genetic algorithm for the minimum generating set problem. <i>Applied Soft Computing Journal</i> , 2016 , 48, 254-264	7.5	10
59	Scatter Search and Path Relinking. <i>International Journal of Swarm Intelligence Research</i> , 2011 , 2, 1-21	1.1	10
58	Adaptive memory programming for matrix bandwidth minimization. <i>Annals of Operations Research</i> , 2011 , 183, 7-23	3.2	10
57	Incremental bipartite drawing problem. <i>Computers and Operations Research</i> , 2001 , 28, 1287-1298	4.6	10
56	A tabu thresholding algorithm for arc crossing minimization in bipartite graphs. <i>Annals of Operations Research</i> , 1996 , 63, 233-251	3.2	10
55	Heuristic Solutions for a Class of Stochastic Uncapacitated p-Hub Median Problems. <i>Transportation Science</i> , 2019 , 53, 1126-1149	4.4	9
54	Variable neighborhood scatter search for the incremental graph drawing problem. <i>Computational Optimization and Applications</i> , 2017 , 68, 775-797	1.4	9
53	Randomized heuristics for the Capacitated Clustering Problem. <i>Information Sciences</i> , 2017 , 417, 154-168	7.7	9
52	Heuristics for the bandwidth colouring problem. <i>International Journal of Metaheuristics</i> , 2010 , 1, 11	0.8	9
51	GRASP with exterior path-relinking and restricted local search for the multidimensional two-way number partitioning problem. <i>Computers and Operations Research</i> , 2017 , 78, 243-254	4.6	8
50	A parallel variable neighborhood search approach for the obnoxious p-median problem. <i>International Transactions in Operational Research</i> , 2020 , 27, 336-360	2.9	8
49	Scatter search for the bandpass problem. <i>Journal of Global Optimization</i> , 2016 , 66, 769-790	1.5	7
48	GRASP with ejection chains for the dynamic memory allocation in embedded systems. <i>Soft Computing</i> , 2014 , 18, 1515-1527	3.5	7
47	Measuring diversity. A review and an empirical analysis. <i>European Journal of Operational Research</i> , 2021 , 289, 515-532	5.6	7
46	Improving the performance of embedded systems with variable neighborhood search. <i>Applied Soft Computing Journal</i> , 2017 , 53, 217-226	7.5	6
45	Models and solution methods for the uncapacitated r-allocation p-hub equitable center problem. <i>International Transactions in Operational Research</i> , 2018 , 25, 1241-1267	2.9	6
44	Neural network prediction in a system for optimizing simulations. <i>IIE Transactions</i> , 2002 , 34, 273-282		6

43	Multi-start Methods 2015 , 1-21		5
42	The capacitated dispersion problem: an optimization model and a memetic algorithm. <i>Memetic Computing</i> , 2021 , 13, 131-146	3.4	5
41	Heuristics for the Bi-Objective Diversity Problem. <i>Expert Systems With Applications</i> , 2018 , 108, 193-205	7.8	5
40	A strategic oscillation simheuristic for the Time Capacitated Arc Routing Problem with stochastic demands. <i>Computers and Operations Research</i> , 2021 , 133, 105377	4.6	5
39	Heuristics for the min \times max arc crossing problem in graphs. <i>Expert Systems With Applications</i> , 2018 , 109, 100-113	7.8	4
38	Adaptive memory programming for the robust capacitated international sourcing problem. <i>Computers and Operations Research</i> , 2008 , 35, 797-806	4.6	4
37	Arc crossing minimization in graphs with GRASP. <i>IIE Transactions</i> , 2001 , 33, 913-919		4
36	Heuristics for the Constrained Incremental Graph Drawing Problem. <i>European Journal of Operational Research</i> , 2019 , 274, 710-729	5.6	4
35	Tabu search for min-max edge crossing in graphs. <i>Computers and Operations Research</i> , 2020 , 114, 104830	4.6	4
34	Heuristics for the capacitated dispersion problem. <i>International Transactions in Operational Research</i> , 2021 , 28, 119-141	2.9	4
33	Diversity and Equity Models 2018 , 979-998		4
32	Multi-start Methods 2018 , 155-175		4
31	Scatter Search 2006 , 139-152		4
30	Tabu and Scatter Search for Artificial Neural Networks. <i>Operations Research/ Computer Science Interfaces Series</i> , 2003 , 79-96	0.3	4
29	2009 ,		3
28	Approximating Unknown Mappings: An Experimental Evaluation. <i>Journal of Heuristics</i> , 2005 , 11, 219-232	1.9	3
27	A heuristic algorithm for project scheduling with splitting allowed. <i>Journal of Heuristics</i> , 1996 , 2, 87-104	1.9	3
26	New Ideas and Applications of Scatter Search and Path Relinking. <i>Studies in Fuzziness and Soft Computing</i> , 2004 , 367-383	0.7	3

25	GRASP and tabu search for the generalized dispersion problem. <i>Expert Systems With Applications</i> , 2021 , 173, 114703	7.8	3
24	Scatter search for the bi-criteria p-median p-dispersion problem. <i>Progress in Artificial Intelligence</i> , 2018 , 7, 31-40	4	3
23	A review on discrete diversity and dispersion maximization from an OR perspective. <i>European Journal of Operational Research</i> , 2021 ,	5.6	3
22	Metaheuristic procedures for the lexicographic bottleneck assembly line balancing problem. <i>Journal of the Operational Research Society</i> , 2015 , 66, 1815-1825	2	2
21	The Scatter Search Methodology 2011 ,		2
20	Pseudo-Cut Strategies for Global Optimization. <i>International Journal of Applied Metaheuristic Computing</i> , 2011 , 2, 1-12	0.8	2
19	The Linear Ordering Polytope. <i>Applied Mathematical Sciences (Switzerland)</i> , 2011 , 117-143	0.9	2
18	Tabu search tutorial. A Graph Drawing Application. <i>Top</i> , 2021 , 29, 319-350	1.3	2
17	Intelligent Multi-Start Methods. <i>Profiles in Operations Research</i> , 2019 , 221-243	1	2
16	Scatter Search 2018 , 717-740		2
15	3D Inter-subject Medical Image Registration by Scatter Search. <i>Lecture Notes in Computer Science</i> , 2005 , 90-103	0.9	2
14	Variable neighborhood descent for the incremental graph drawing. <i>Electronic Notes in Discrete Mathematics</i> , 2017 , 58, 183-190	0.3	1
13	GRASP & evolutionary path relinking for medical image registration based on point matching 2010 ,		1
12	Arc Crossing Minimization in Graphs with GRASP. <i>IIE Transactions</i> , 2001 , 33, 913-919		1
11	Linear Layout Problems 2016 , 1-25		1
10	Greedy Randomized Adaptive Search Procedures. <i>EURO Advanced Tutorials on Operational Research</i> , 2018 , 57-83	0.8	1
9	Maximin dispersion with capacity and cost for a practical location problem. <i>Expert Systems With Applications</i> , 2022 , 200, 116899	7.8	1
8	Adaptive memory programming for the dynamic bipartite drawing problem. <i>Information Sciences</i> , 2020 , 517, 183-197	7.7	0

7 Pseudo-Cut Strategies for Global Optimization 188-198

6 Tabu Search. *EURO Advanced Tutorials on Operational Research*, **2018**, 85-103 0.8

5 Black-Box Solvers. *EURO Advanced Tutorials on Operational Research*, **2018**, 105-136 0.8

4 Scatter Search and Path Relinking **2013**, 1-21

3 Rejoinder on: Tabu search tutorial. A Graph Drawing Application. *Top*, **2021**, 29, 363-371 1.3

2 Linear Layout Problems **2018**, 1025-1049

1 Scatter search for the minimum leaf spanning tree problem. *Computers and Operations Research*, **2022**, 105858 4.6