Rafael Marti

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/1084351/publications.pdf

Version: 2024-02-01

149	5,660	94269	98622
papers	citations	37 h-index	67 g-index

153	153	153	3765
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A review of the role of heuristics in stochastic optimisation: from metaheuristics to learnheuristics. Annals of Operations Research, 2023, 320, 831-861.	2.6	31
2	A review on discrete diversity and dispersion maximization from an OR perspective. European Journal of Operational Research, 2022, 299, 795-813.	3.5	18
3	Maxâ€“min dispersion with capacity and cost for a practical location problem. Expert Systems With Applications, 2022, 200, 116899.	4.4	9
4	Scatter search for the minimum leaf spanning tree problem. Computers and Operations Research, 2022, , 105858.	2.4	0
5	Heuristics for the capacitated dispersion problem. International Transactions in Operational Research, 2021, 28, 119-141.	1.8	15
6	Measuring diversity. A review and an empirical analysis. European Journal of Operational Research, 2021, 289, 515-532.	3.5	21
7	The capacitated dispersion problem: an optimization model and a memetic algorithm. Memetic Computing, 2021, 13, 131-146.	2.7	14
8	Rejoinder on: Tabu search tutorial. A Graph Drawing Application. Top, 2021, 29, 363-371.	1.1	0
9	Tabu search tutorial. A Graph Drawing Application. Top, 2021, 29, 319-350.	1.1	7
10	GRASP and tabu search for the generalized dispersion problem. Expert Systems With Applications, 2021, 173, 114703.	4.4	10
11	A strategic oscillation simheuristic for the Time Capacitated Arc Routing Problem with stochastic demands. Computers and Operations Research, 2021, 133, 105377.	2.4	12
12	A parallel variable neighborhood search approach for the obnoxious pâ€median problem. International Transactions in Operational Research, 2020, 27, 336-360.	1.8	16
13	Tabu search for min-max edge crossing in graphs. Computers and Operations Research, 2020, 114, 104830.	2.4	8
14	Iterated greedy with variable neighborhood search for a multiobjective waste collection problem. Expert Systems With Applications, 2020, 145, 113101.	4.4	29
15	Adaptive memory programming for the dynamic bipartite drawing problem. Information Sciences, 2020, 517, 183-197.	4.0	7
16	Heuristic Solutions for a Class of Stochastic Uncapacitated p-Hub Median Problems. Transportation Science, 2019, 53, 1126-1149.	2.6	15
17	Heuristics for the Constrained Incremental Graph Drawing Problem. European Journal of Operational Research, 2019, 274, 710-729.	3.5	8
18	Intelligent Multi-Start Methods. Profiles in Operations Research, 2019, , 221-243.	0.3	3

#	Article	IF	Citations
19	Multi-objective memetic optimization for the bi-objective obnoxious p -median problem. Knowledge-Based Systems, 2018, 144, 88-101.	4.0	20
20	Models and solution methods for the uncapacitated râ€allocation pâ€hub equitable center problem. International Transactions in Operational Research, 2018, 25, 1241-1267.	1.8	8
21	Scatter search for the bi-criteria p-median p-dispersion problem. Progress in Artificial Intelligence, 2018, 7, 31-40.	1.5	4
22	Tabu search for the dynamic Bipartite Drawing Problem. Computers and Operations Research, 2018, 91, 1-12.	2.4	18
23	Linear Layout Problems. , 2018, , 1025-1049.		1
24	Diversity and Equity Models. , 2018, , 979-998.		6
25	Multi-start Methods. , 2018, , 155-175.		9
26	Scatter Search. , 2018, , 717-740.		2
27	Heuristics for the Bi-Objective Diversity Problem. Expert Systems With Applications, 2018, 108, 193-205.	4.4	9
28	Heuristics for the minâ€“max arc crossing problem in graphs. Expert Systems With Applications, 2018, 109, 100-113.	4.4	10
29	Metaheuristics for Business Analytics. EURO Advanced Tutorials on Operational Research, 2018, , .	0.6	2
30	Greedy Randomized Adaptive Search Procedures. EURO Advanced Tutorials on Operational Research, 2018, , 57-83.	0.6	1
31	Tabu Search. EURO Advanced Tutorials on Operational Research, 2018, , 85-103.	0.6	0
32	Heuristic solution approaches for the maximum minsum dispersion problem. Journal of Global Optimization, 2017, 67, 671-686.	1.1	15
33	Improving the performance of embedded systems with variable neighborhood search. Applied Soft Computing Journal, 2017, 53, 217-226.	4.1	6
34	Variable neighborhood descent for the incremental graph drawing. Electronic Notes in Discrete Mathematics, 2017, 58, 183-190.	0.4	2
35	Variable neighborhood scatter search for the incremental graph drawing problem. Computational Optimization and Applications, 2017, 68, 775-797.	0.9	12
36	Randomized heuristics for the Capacitated Clustering Problem. Information Sciences, 2017, 417, 154-168.	4.0	11

#	Article	IF	Citations
37	GRASP with exterior path-relinking and restricted local search for the multidimensional two-way number partitioning problem. Computers and Operations Research, 2017, 78, 243-254.	2.4	9
38	Heuristics for the capacitated modular hub location problem. Computers and Operations Research, 2017, 86, 94-109.	2.4	33
39	A genetic algorithm for the minimum generating set problem. Applied Soft Computing Journal, 2016, 48, 254-264.	4.1	12
40	Scatter search for the bandpass problem. Journal of Global Optimization, 2016, 66, 769-790.	1.1	10
41	Advanced Greedy Randomized Adaptive Search Procedure for the Obnoxious p-Median problem. European Journal of Operational Research, 2016, 252, 432-442.	3.5	30
42	Strategic oscillation for the capacitated hub location problem with modular links. Journal of Heuristics, 2016, 22, 221-244.	1.1	21
43	Linear Layout Problems. , 2016, , 1-25.		1
44	Scatter search for the profile minimization problem. Networks, 2015, 65, 10-21.	1.6	15
45	Tabu search for the Maxâ€“Mean Dispersion Problem. Knowledge-Based Systems, 2015, 85, 256-264.	4.0	25
46	Scatter search for an uncapacitated p-hub median problem. Computers and Operations Research, 2015, 58, 53-66.	2.4	32
47	Metaheuristic procedures for the lexicographic bottleneck assembly line balancing problem. Journal of the Operational Research Society, 2015, 66, 1815-1825.	2.1	5
48	Tabu search and GRASP for the capacitated clustering problem. Computational Optimization and Applications, 2015, 62, 589-607.	0.9	17
49	Greedy randomized adaptive search procedure with exterior path relinking for differential dispersion minimization. Information Sciences, 2015, 296, 46-60.	4.0	48
50	Multiobjective GRASP with Path Relinking. European Journal of Operational Research, 2015, 240, 54-71.	3.5	54
51	Multi-start Methods. , 2015, , 1-21.		7
52	Improved heuristics for the regenerator location problem. International Transactions in Operational Research, 2014, 21, 541-558.	1.8	24
53	GRASP for the uncapacitated r-allocation p-hub median problem. Computers and Operations Research, 2014, 43, 50-60.	2.4	41
54	A black-box scatter search for optimization problems with integer variables. Journal of Global Optimization, 2014, 58, 497-516.	1.1	28

#	ARTICLE	IF	CITATIONS
55	Tabu search with strategic oscillation for the quadratic minimum spanning tree. IIE Transactions, 2014, 46, 414-428.	2.1	22
56	Strategic oscillation for the quadratic multiple knapsack problem. Computational Optimization and Applications, 2014, 58, 161-185.	0.9	23
57	GRASP with path relinking for the orienteering problem. Journal of the Operational Research Society, 2014, 65, 1800-1813.	2.1	56
58	GRASP with ejection chains for the dynamic memory allocation in embedded systems. Soft Computing, 2014, 18, 1515-1527.	2.1	8
59	Optimization procedures for the bipartite unconstrained 0-1 quadratic programming problem. Computers and Operations Research, 2014, 51, 123-129.	2.4	16
60	Heuristics and metaheuristics for the maximum diversity problem. Journal of Heuristics, 2013, 19, 591-615.	1.1	62
61	A hybrid metaheuristic for the cyclic antibandwidth problem. Knowledge-Based Systems, 2013, 54, 103-113.	4.0	25
62	Multi-start methods for combinatorial optimization. European Journal of Operational Research, 2013, 226, 1-8.	3.5	133
63	Designing effective improvement methods for scatter search: an experimental study on global optimization. Soft Computing, 2013, 17, 49-62.	2.1	12
64	GRASP and path relinking for the equitable dispersion problem. Computers and Operations Research, 2013, 40, 3091-3099.	2.4	36
65	Branch and bound for the cutwidth minimization problem. Computers and Operations Research, 2013, 40, 137-149.	2.4	20
66	Tabu search with strategic oscillation for the maximally diverse grouping problem. Journal of the Operational Research Society, 2013, 64, 724-734.	2.1	61
67	Scatter Search and Path Relinking. , 2013, , 1-21.		30
68	Scatter search for the cutwidth minimization problem. Annals of Operations Research, 2012, 199, 285-304.	2.6	45
69	Variable neighborhood search with ejection chains for the antibandwidth problem. Journal of Heuristics, 2012, 18, 919-938.	1.1	27
70	Variable neighborhood search for the Vertex Separation Problem. Computers and Operations Research, 2012, 39, 3247-3255.	2.4	48
71	Metaheuristics for the linear ordering problem with cumulative costs. European Journal of Operational Research, 2012, 216, 270-277.	3.5	20
72	A benchmark library and a comparison of heuristic methods for the linear ordering problem. Computational Optimization and Applications, 2012, 51, 1297-1317.	0.9	39

#	Article	IF	Citations
73	GRASP and path relinking hybridizations for the point matching-based image registration problem. Journal of Heuristics, 2012, 18, 169-192.	1.1	12
74	The Linear Ordering Problem. Applied Mathematical Sciences (Switzerland), 2011, , .	0.4	88
75	Scatter Search and Path Relinking. International Journal of Swarm Intelligence Research, 2011, 2, 1-21.	0.5	10
76	Tabu search for the linear ordering problem withÂcumulative costs. Computational Optimization and Applications, 2011, 48, 697-715.	0.9	20
77	Path relinking for large-scale global optimization. Soft Computing, 2011, 15, 2257-2273.	2.1	22
78	Adaptive memory programming for matrix bandwidth minimization. Annals of Operations Research, 2011, 183, 7-23.	2.6	13
79	Hybrid scatter tabu search for unconstrained global optimization. Annals of Operations Research, 2011, 183, 95-123.	2.6	44
80	GRASP with path relinking heuristics for the antibandwidth problem. Networks, 2011, 58, 171-189.	1.6	36
81	Scatter tabu search for multiobjective clustering problems. Journal of the Operational Research Society, 2011, 62, 2034-2046.	2.1	17
82	The Linear Ordering Polytope. Applied Mathematical Sciences (Switzerland), 2011, , 117-143.	0.4	6
83	Pseudo-Cut Strategies for Global Optimization. International Journal of Applied Metaheuristic Computing, 2011, 2, 1-12.	0.5	4
84	Elbow septic arthritis in children: clinical presentation and management. Journal of Pediatric Orthopaedics Part B, 2010, 19, 281-284.	0.3	18
85	Heuristics for the bandwidth colouring problem. International Journal of Metaheuristics, 2010, 1, 11.	0.1	12
86	Adaptive memory programming for constrained global optimization. Computers and Operations Research, 2010, 37, 1500-1509.	2.4	36
87	A branch and bound algorithm for the maximum diversity problem. European Journal of Operational Research, 2010, 200, 36-44.	3.5	71
88	GRASP and path relinking for the maxâ€“min diversity problem. Computers and Operations Research, 2010, 37, 498-508.	2.4	160
89	An evolutionary method for complex-process optimization. Computers and Operations Research, 2010, 37, 315-324.	2.4	111
90	Black box scatter search for general classes of binary optimization problems. Computers and Operations Research, 2010, 37, 1977-1986.	2.4	29

#	Article	IF	Citations
91	GRASP & evolutionary path relinking for medical image registration based on point matching. , 2010, , .		1
92	Scatter Search and Path-Relinking: Fundamentals, Advances, and Applications. Profiles in Operations Research, 2010, , 87-107.	0.3	63
93	Advanced Multi-start Methods. Profiles in Operations Research, 2010, , 265-281.	0.3	30
94	Advanced Scatter Search for the Max-Cut Problem. INFORMS Journal on Computing, 2009, 21, 26-38.	1.0	90
95	An Adaptive Memory Procedure for Continuous Optimization. , 2009, , .		3
96	Hybrid heuristics for the maximum diversity problem. Computational Optimization and Applications, 2009, 44, 411-426.	0.9	37
97	Improved scatter search for the global optimization of computationally expensive dynamic models. Journal of Global Optimization, 2009, 43, 175-190.	1.1	43
98	Hybridizing the cross-entropy method: An application to the max-cut problem. Computers and Operations Research, 2009, 36, 487-498.	2.4	25
99	Heuristics for the bi-objective path dissimilarity problem. Computers and Operations Research, 2009, 36, 2905-2912.	2.4	42
100	Adaptive memory programing for the robust capacitated international sourcing problem. Computers and Operations Research, 2008, 35, 797-806.	2.4	5
101	A branch and bound algorithm for the matrix bandwidth minimization. European Journal of Operational Research, 2008, 186, 513-528.	3.5	38
102	Scatter Search for the Point-Matching Problem in 3D Image Registration. INFORMS Journal on Computing, 2008, 20, 55-68.	1.0	28
103	GRASP and Path Relinking for the Two-Dimensional Two-Stage Cutting-Stock Problem. INFORMS Journal on Computing, 2007, 19, 261-272.	1.0	18
104	Scatter Search and Local NLP Solvers: A Multistart Framework for Global Optimization. INFORMS Journal on Computing, 2007, 19, 328-340.	1.0	537
105	SSPMO: A Scatter Tabu Search Procedure for Non-Linear Multiobjective Optimization. INFORMS Journal on Computing, 2007, 19, 91-100.	1.0	74
106	Tabu search and GRASP for the maximum diversity problem. European Journal of Operational Research, 2007, 178, 71-84.	3.5	105
107	Scatter search for chemical and bio-process optimization. Journal of Global Optimization, 2007, 37, 481-503.	1.1	147
108	Principles of scatter search. European Journal of Operational Research, 2006, 169, 359-372.	3.5	351

#	Article	IF	Citations
109	Variable neighborhood search for the linear ordering problem. Computers and Operations Research, 2006, 33, 3549-3565.	2.4	45
110	Scatter Searchâ€"Wellsprings and Challenges. European Journal of Operational Research, 2006, 169, 351-358.	3.5	39
111	Path relinking and GRG for artificial neural networks. European Journal of Operational Research, 2006, 169, 508-519.	3.5	15
112	Tabu search for a multi-objective routing problem. Journal of the Operational Research Society, 2006, 57, 29-37.	2.1	72
113	Tabu Search. , 2006, , 53-69.		34
114	Scatter Search. , 2006, , 139-152.		8
115	Experimental Testing of Advanced Scatter Search Designs for Global Optimization of Multimodal Functions. Journal of Global Optimization, 2005, 33, 235-255.	1.1	149
116	Approximating Unknown Mappings: An Experimental Evaluation. Journal of Heuristics, 2005, 11, 219-232.	1.1	3
117	Context-Independent Scatter and Tabu Search for Permutation Problems. INFORMS Journal on Computing, 2005, 17, 111-122.	1.0	63
118	A Multistart Scatter Search Heuristic for Smooth NLP and MINLP Problems. , 2005, , 25-57.		19
119	Scatter Search vs. Genetic Algorithms. , 2005, , 263-282.		23
120	3D Inter-subject Medical Image Registration by Scatter Search. Lecture Notes in Computer Science, 2005, , 90-103.	1.0	3
121	GRASP and path relinking for the matrix bandwidth minimization. European Journal of Operational Research, 2004, 153, 200-210.	3.5	85
122	Multilayer neural networks: an experimental evaluation of on-line training methods. Computers and Operations Research, 2004, 31, 1491-1513.	2.4	21
123	New Ideas and Applications of Scatter Search and Path Relinking. Studies in Fuzziness and Soft Computing, 2004, , 367-383.	0.6	5
124	Scatter Search and Path Relinking: Foundations and Advanced Designs. Studies in Fuzziness and Soft Computing, 2004, , 87-99.	0.6	32
125	Heuristics and meta-heuristics for 2-layer straight line crossing minimization. Discrete Applied Mathematics, 2003, 127, 665-678.	0.5	22
126	Scatter Search and Path Relinking: Advances and Applications. , 2003, , 1-35.		70

#	Article	IF	Citations
127	Multi-Start Methods. , 2003, , 355-368.		105
128	Tabu and Scatter Search for Artificial Neural Networks. Operations Research/ Computer Science Interfaces Series, 2003, , 79-96.	0.3	4
129	Neural network prediction in a system for optimizing simulations. IIE Transactions, 2002, 34, 273-282.	2.1	34
130	Heuristic solutions to the problem of routing school buses with multiple objectives. Journal of the Operational Research Society, 2002, 53, 427-435.	2.1	132
131	A GRASP heuristic for the mixed Chinese postman problem. European Journal of Operational Research, 2002, 142, 70-80.	3.5	30
132	The Rural Postman Problem on mixed graphs with turn penalties. Computers and Operations Research, 2002, 29, 887-903.	2.4	25
133	Neural network prediction in a system for optimizing simulations. IIE Transactions, 2002, 34, 273-282.	2.1	6
134	Arc crossing minimization in graphs with GRASP. IIE Transactions, 2001, 33, 913-919.	2.1	9
135	Incremental bipartite drawing problem. Computers and Operations Research, 2001, 28, 1287-1298.	2.4	12
136	Reducing the bandwidth of a sparse matrix with tabu search. European Journal of Operational Research, 2001, 135, 450-459.	3.5	84
137	Arc Crossing Minimization in Graphs with GRASP. IIE Transactions, 2001, 33, 913-919.	2.1	1
138	A GRASP for Coloring Sparse Graphs. Computational Optimization and Applications, 2001, 19, 165-178.	0.9	52
139	An Experimental Evaluation of a Scatter Search for the Linear Ordering Problem. Journal of Global Optimization, 2001, 21, 397-414.	1.1	111
140	Heuristics for the Mixed Rural Postman Problem. Computers and Operations Research, 2000, 27, 183-203.	2.4	27
141	GRASP and Path Relinking for 2-Layer Straight Line Crossing Minimization. INFORMS Journal on Computing, 1999, 11, 44-52.	1.0	264
142	Intensification and diversification with elite tabu search solutions for the linear ordering problem. Computers and Operations Research, 1999, 26, 1217-1230.	2.4	117
143	GRASP for Seam Drawing in Mosaicking of Aerial Photographic Maps. Journal of Heuristics, 1999, 5, 181-197.	1.1	32
144	A tabu search algorithm for the bipartite drawing problem. European Journal of Operational Research, 1998, 106, 558-569.	3.5	20

#	Article	IF	Citations
145	Arc crossing minimization in hierarchical digraphs with tabu search. Computers and Operations Research, 1997, 24, 1175-1186.	2.4	31
146	A tabu thresholding algorithm for arc crossing minimization in bipartite graphs. Annals of Operations Research, 1996, 63, 233-251.	2.6	15
147	A branch and bound algorithm for minimizing the number of crossing arcs in bipartite graphs. European Journal of Operational Research, 1996, 90, 303-319.	3.5	32
148	A heuristic algorithm for project scheduling with splitting allowed. Journal of Heuristics, 1996, 2, 87-104.	1.1	3
149	Pseudo-Cut Strategies for Global Optimization. , 0, , 188-198.		0