

Abraham Duarte

List of Publications by Citations

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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.

133
papers

1,925
citations

26
h-index

38
g-index

137
ext. papers

2,207
ext. citations

3.3
avg, IF

5.27
L-index

#	Paper	IF	Citations
133	GRASP and path relinking for the maximum diversity problem. <i>Computers and Operations Research</i> , 2010 , 37, 498-508	4.6	129
132	Tabu search and GRASP for the maximum diversity problem. <i>European Journal of Operational Research</i> , 2007 , 178, 71-84	5.6	84
131	Advanced Scatter Search for the Max-Cut Problem. <i>INFORMS Journal on Computing</i> , 2009 , 21, 26-38	2.4	74
130	Variable Formulation Search for the Cutwidth Minimization Problem. <i>Applied Soft Computing Journal</i> , 2013 , 13, 2242-2252	7.5	53
129	A branch and bound algorithm for the maximum diversity problem. <i>European Journal of Operational Research</i> , 2010 , 200, 36-44	5.6	53
128	Multiobjective GRASP with Path Relinking. <i>European Journal of Operational Research</i> , 2015 , 240, 54-71	5.6	48
127	Multi-objective variable neighborhood search: an application to combinatorial optimization problems. <i>Journal of Global Optimization</i> , 2015 , 63, 515-536	1.5	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	Variable Neighborhood Search strategies for the Order Batching Problem. <i>Computers and Operations Research</i> , 2017 , 78, 500-512	4.6	41
121	Scatter search for the cutwidth minimization problem. <i>Annals of Operations Research</i> , 2012 , 199, 285-304	3.2	41
120	General Variable Neighborhood Search for the Order Batching and Sequencing Problem. <i>European Journal of Operational Research</i> , 2017 , 263, 82-93	5.6	40
119	Segmentation Algorithms for Thermal Images. <i>Procedia Technology</i> , 2014 , 16, 1560-1569		40
118	GRASP with path relinking for the orienteering problem. <i>Journal of the Operational Research Society</i> , 2014 , 65, 1800-1813	2	40
117	Combining intensification and diversification strategies in VNS. An application to the Vertex Separation problem. <i>Computers and Operations Research</i> , 2014 , 52, 209-219	4.6	39

116	Hybrid scatter tabu search for unconstrained global optimization. <i>Annals of Operations Research</i> , 2011 , 183, 95-123	3.2	37
115	Heuristics for the bi-objective path dissimilarity problem. <i>Computers and Operations Research</i> , 2009 , 36, 2905-2912	4.6	36
114	Parallel variable neighbourhood search strategies for the cutwidth minimization problem. <i>IMA Journal of Management Mathematics</i> , 2016 , 27, 55-73	1.4	34
113	GRASP with path relinking heuristics for the antibandwidth problem. <i>Networks</i> , 2011 , 58, 171-189	1.6	34
112	Hybrid heuristics for the maximum diversity problem. <i>Computational Optimization and Applications</i> , 2009 , 44, 411-426	1.4	32
111	Improving image segmentation quality through effective region merging using a hierarchical social metaheuristic. <i>Pattern Recognition Letters</i> , 2006 , 27, 1239-1251	4.7	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	Adaptive memory programming for constrained global optimization. <i>Computers and Operations Research</i> , 2010 , 37, 1500-1509	4.6	28
108	Iterated Greedy algorithm for performing community detection in social networks. <i>Future Generation Computer Systems</i> , 2018 , 88, 785-791	7.5	27
107	A black-box scatter search for optimization problems with integer variables. <i>Journal of Global Optimization</i> , 2014 , 58, 497-516	1.5	25
106	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
105	Parallel variable neighborhood search for the minmax order batching problem. <i>International Transactions in Operational Research</i> , 2017 , 24, 635-662	2.9	22
104	A hybrid metaheuristic for the cyclic antibandwidth problem. <i>Knowledge-Based Systems</i> , 2013 , 54, 103-113	7.3	22
103	Tabu search for the Max-Mean Dispersion Problem. <i>Knowledge-Based Systems</i> , 2015 , 85, 256-264	7.3	22
102	Variable neighborhood search with ejection chains for the antibandwidth problem. <i>Journal of Heuristics</i> , 2012 , 18, 919-938	1.9	22
101	Variable Neighborhood Descent 2018 , 341-367		21
100	Advanced Multi-start Methods. <i>Profiles in Operations Research</i> , 2010 , 265-281	1	21
99	Black box scatter search for general classes of binary optimization problems. <i>Computers and Operations Research</i> , 2010 , 37, 1977-1986	4.6	20

98	Robust total energy demand estimation with a hybrid Variable Neighborhood Search [Extreme Learning Machine algorithm. <i>Energy Conversion and Management</i> , 2016 , 123, 445-452	10.6	19
97	Metaheuristics for the linear ordering problem with cumulative costs. <i>European Journal of Operational Research</i> , 2012 , 216, 270-277	5.6	19
96	Improved heuristics for the regenerator location problem. <i>International Transactions in Operational Research</i> , 2014 , 21, 541-558	2.9	19
95	Path relinking for large-scale global optimization. <i>Soft Computing</i> , 2011 , 15, 2257-2273	3.5	19
94	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
93	Multi-dimensional visual tracking using scatter search particle filter. <i>Pattern Recognition Letters</i> , 2008 , 29, 1160-1174	4.7	19
92	Branch and bound for the cutwidth minimization problem. <i>Computers and Operations Research</i> , 2013 , 40, 137-149	4.6	18
91	GRASP with path relinking for the single row facility layout problem. <i>Knowledge-Based Systems</i> , 2016 , 106, 1-13	7.3	18
90	Tabu search for the linear ordering problem with cumulative costs. <i>Computational Optimization and Applications</i> , 2011 , 48, 697-715	1.4	17
89	Multi-objective memetic optimization for the bi-objective obnoxious p-median problem. <i>Knowledge-Based Systems</i> , 2018 , 144, 88-101	7.3	16
88	Optimization procedures for the bipartite unconstrained 0-1 quadratic programming problem. <i>Computers and Operations Research</i> , 2014 , 51, 123-129	4.6	15
87	Investigating the diversity of Type Ia supernova spectra with the open-source relational data base kaepora. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019 , 486, 5785-5808	4.3	14
86	A low-level hybridization between memetic algorithm and VNS for the max-cut problem 2005 ,		14
85	Tabu search for the dynamic Bipartite Drawing Problem. <i>Computers and Operations Research</i> , 2018 , 91, 1-12	4.6	14
84	Solving dynamic memory allocation problems in embedded systems with parallel variable neighborhood search strategies. <i>Electronic Notes in Discrete Mathematics</i> , 2015 , 47, 85-92	0.3	13
83	General Variable Neighborhood Search applied to the picking process in a warehouse. <i>Electronic Notes in Discrete Mathematics</i> , 2015 , 47, 77-84	0.3	13
82	General Variable Neighborhood Search for computing graph separators. <i>Optimization Letters</i> , 2017 , 11, 1069-1089	1.1	12
81	Scatter search for the profile minimization problem. <i>Networks</i> , 2015 , 65, 10-21	1.6	12

80	Designing effective improvement methods for scatter search: an experimental study on global optimization. <i>Soft Computing</i> , 2013 , 17, 49-62	3.5	11
79	Scatter Search and Path Relinking. <i>International Journal of Swarm Intelligence Research</i> , 2011 , 2, 1-21	1.1	10
78	A Hierarchical Social Metaheuristic for the Max-Cut Problem. <i>Lecture Notes in Computer Science</i> , 2004 , 84-94	0.9	10
77	A Variable Neighborhood Search approach for the Hamiltonian p-median problem. <i>Applied Soft Computing Journal</i> , 2019 , 80, 603-616	7.5	9
76	Variable neighborhood scatter search for the incremental graph drawing problem. <i>Computational Optimization and Applications</i> , 2017 , 68, 775-797	1.4	9
75	Heuristics for the bandwidth colouring problem. <i>International Journal of Metaheuristics</i> , 2010 , 1, 11	0.8	9
74	Variable Neighborhood Descent 2016 , 1-27		9
73	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
72	Scatter search for the bandpass problem. <i>Journal of Global Optimization</i> , 2016 , 66, 769-790	1.5	7
71	GRASP with ejection chains for the dynamic memory allocation in embedded systems. <i>Soft Computing</i> , 2014 , 18, 1515-1527	3.5	7
70	Efficient Greedy Randomized Adaptive Search Procedure for the Generalized Regenerator Location Problem. <i>International Journal of Computational Intelligence Systems</i> , 2016 , 9, 1016-1027	3.4	7
69	Alternative evaluation functions for the cyclic bandwidth sum problem. <i>European Journal of Operational Research</i> , 2019 , 273, 904-919	5.6	7
68	A variable neighborhood search approach for the vertex bisection problem. <i>Information Sciences</i> , 2019 , 476, 1-18	7.7	7
67	Solving the edge-disjoint paths problem using a two-stage method. <i>International Transactions in Operational Research</i> , 2020 , 27, 435-457	2.9	7
66	Improving the performance of embedded systems with variable neighborhood search. <i>Applied Soft Computing Journal</i> , 2017 , 53, 217-226	7.5	6
65	GRASP with Variable Neighborhood Descent for the online order batching problem. <i>Journal of Global Optimization</i> , 2020 , 78, 295-325	1.5	6
64	Scatter Search Particle Filter to Solve the Dynamic Travelling Salesman Problem. <i>Lecture Notes in Computer Science</i> , 2005 , 177-189	0.9	6
63	Improving Iterated Local Search Solution for the Linear Ordering Problem with Cumulative Costs (LOPCC). <i>Lecture Notes in Computer Science</i> , 2010 , 183-192	0.9	5

62	Heuristics for the Bi-Objective Diversity Problem. <i>Expert Systems With Applications</i> , 2018 , 108, 193-205	7.8	5
61	An efficient variable neighborhood search for the Space-Free Multi-Row Facility Layout problem. <i>European Journal of Operational Research</i> , 2021 , 295, 893-907	5.6	5
60	Top-Down Evolutionary Image Segmentation Using a Hierarchical Social Metaheuristic. <i>Lecture Notes in Computer Science</i> , 2004 , 301-311	0.9	4
59	Path Relinking Particle Filter for Human Body Pose Estimation. <i>Lecture Notes in Computer Science</i> , 2004 , 653-661	0.9	4
58	Multistart search for the Cyclic Cutwidth Minimization Problem. <i>Computers and Operations Research</i> , 2021 , 126, 105116	4.6	4
57	Diversity and Equity Models 2018 , 979-998		4
56	A heuristic approach for the online order batching problem with multiple pickers. <i>Computers and Industrial Engineering</i> , 2021 , 160, 107517	6.4	4
55	New VNS Variants for the Online Order Batching Problem. <i>Lecture Notes in Computer Science</i> , 2019 , 89-100		3
54	On the Analysis of the Influence of the Evaluation Metric in Community Detection over Social Networks. <i>Electronics (Switzerland)</i> , 2019 , 8, 23	2.6	3
53	Finding weaknesses in networks using Greedy Randomized Adaptive Search Procedure and Path Relinking. <i>Expert Systems</i> , 2020 , 37, e12540	2.1	3
52	An experimental comparison of Variable Neighborhood Search variants for the minimization of the vertex-cut in layout problems. <i>Electronic Notes in Discrete Mathematics</i> , 2012 , 39, 59-66	0.3	3
51	2009 ,		3
50	Low-Level Hybridization of Scatter Search and Particle Filter for Dynamic TSP Solving. <i>Studies in Computational Intelligence</i> , 2013 , 291-308	0.8	3
49	An efficient metaheuristic for the K-page crossing number minimization problem. <i>Knowledge-Based Systems</i> , 2020 , 207, 106352	7.3	3
48	A Multi-Objective Parallel Iterated Greedy for Solving the p-Center and p-Dispersion Problem. <i>Electronics (Switzerland)</i> , 2019 , 8, 1440	2.6	3
47	Scatter search for the bi-criteria p-median p-dispersion problem. <i>Progress in Artificial Intelligence</i> , 2018 , 7, 31-40	4	3
46	Special issue on recent innovations in variable neighborhood search. <i>Journal of Heuristics</i> , 2020 , 26, 335-338		2
45	Parallel strategic oscillation: an application to the maximum leaf spanning tree problem. <i>Progress in Artificial Intelligence</i> , 2016 , 5, 121-128	4	2

44	An algorithm for batching, sequencing and picking operations in a warehouse 2015 ,		2
43	Beyond Unfeasibility: Strategic Oscillation for the Maximum Leaf Spanning Tree Problem. <i>Lecture Notes in Computer Science</i> , 2015 , 322-331	0.9	2
42	A Variable Neighbourhood Search approach to the Cutwidth Minimization Problem. <i>Electronic Notes in Discrete Mathematics</i> , 2012 , 39, 67-74	0.3	2
41	The Scatter Search Methodology 2011 ,		2
40	Region Merging for Severe Oversegmented Images Using a Hierarchical Social Metaheuristic. <i>Lecture Notes in Computer Science</i> , 2005 , 345-355	0.9	2
39	Pseudo-Cut Strategies for Global Optimization. <i>International Journal of Applied Metaheuristic Computing</i> , 2011 , 2, 1-12	0.8	2
38	Basic VNS for a Variant of the Online Order Batching Problem. <i>Lecture Notes in Computer Science</i> , 2020 , 17-36	0.9	2
37	Fixed versus variable time window warehousing strategies in real time. <i>Progress in Artificial Intelligence</i> , 2020 , 9, 315-324	4	2
36	Intelligent Multi-Start Methods. <i>Profiles in Operations Research</i> , 2019 , 221-243	1	2
35	A quick GRASP-based method for influence maximization in social networks. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 1	3.7	2
34	An improved GRASP method for the multiple row equal facility layout problem. <i>Expert Systems With Applications</i> , 2021 , 182, 115184	7.8	2
33	VNS variants for the Max-Mean Dispersion Problem. <i>Electronic Notes in Discrete Mathematics</i> , 2015 , 47, 253-260	0.3	1
32	Basic variable neighborhood search for the minimum sitting arrangement problem. <i>Journal of Heuristics</i> , 2020 , 26, 249-268	1.9	1
31	Variable neighborhood descent for the incremental graph drawing. <i>Electronic Notes in Discrete Mathematics</i> , 2017 , 58, 183-190	0.3	1
30			1
29	A general variable neighborhood search for the cyclic antibandwidth problem. <i>Computational Optimization and Applications</i> , 2022 , 81, 657-687	1.4	1
28	Strategic oscillation for the balanced minimum sum-of-squares clustering problem. <i>Information Sciences</i> , 2021 , 585, 529-529	7.7	1
27	Linear Layout Problems 2016 , 1-25		1

26	Diversity and Equity Models 2015 , 1-20		1
25	Greedy Randomized Adaptive Search Procedures. <i>EURO Advanced Tutorials on Operational Research</i> , 2018 , 57-83	0.8	1
24	GRASP for Instance Selection in Medical Data Sets. <i>Advances in Intelligent and Soft Computing</i> , 2010 , 53-60		1
23	On solving the order processing in picking workstations. <i>Optimization Letters</i> , 2020 , 1	1.1	1
22	A Hybrid Strategic Oscillation with Path Relinking Algorithm for the Multiobjective k-Balanced Center Location Problem. <i>Mathematics</i> , 2021 , 9, 853	2.3	1
21	Two-dimensional bandwidth minimization problem: Exact and heuristic approaches. <i>Knowledge-Based Systems</i> , 2021 , 214, 106651	7.3	1
20	A fast variable neighborhood search approach for multi-objective community detection. <i>Applied Soft Computing Journal</i> , 2021 , 112, 107838	7.5	1
19	BVNS Approach for the Order Processing in Parallel Picking Workstations. <i>Lecture Notes in Computer Science</i> , 2021 , 176-190	0.9	1
18	Maximin dispersion with capacity and cost for a practical location problem. <i>Expert Systems With Applications</i> , 2022 , 200, 116899	7.8	1
17	An efficient heuristic algorithm for software module clustering optimization. <i>Journal of Systems and Software</i> , 2022 , 190, 111349	3.3	1
16	Solving the regenerator location problem with an iterated greedy approach. <i>Applied Soft Computing Journal</i> , 2021 , 111, 107659	7.5	0
15	A GRASP algorithm with Tabu Search improvement for solving the maximum intersection of k-subsets problem. <i>Journal of Heuristics</i> , 2022 , 28, 121-146	1.9	0
14	A variable neighborhood search approach for cyclic bandwidth sum problem. <i>Knowledge-Based Systems</i> , 2022 , 108680	7.3	0
13	Out of the Niche: Using Direct Search Methods to Find Multiple Global Optima. <i>Mathematics</i> , 2022 , 10, 1494	2.3	0
12	Finding Balanced Bicliques in Bipartite Graphs Using Variable Neighborhood Search. <i>Lecture Notes in Computer Science</i> , 2019 , 114-124	0.9	
11	Pseudo-Cut Strategies for Global Optimization 188-198		
10	Tabu Search. <i>EURO Advanced Tutorials on Operational Research</i> , 2018 , 85-103	0.8	
9	A Metaheuristic Approach for the (α)-separator Problem. <i>Lecture Notes in Computer Science</i> , 2018 , 336-343	0.9	

- 8 Detecting Weak Points in Networks Using Variable Neighborhood Search. *Lecture Notes in Computer Science*, **2019**, 141-151 0.9
- 7 Scatter Search and Path Relinking **2013**, 1-21
- 6 Optimizing Computer Networks Communication with the Band Collocation Problem: A Variable Neighborhood Search Approach. *Electronics (Switzerland)*, **2020**, 9, 1860 2.6
- 5 Estimating the Spanish Energy Demand Using Variable Neighborhood Search. *Lecture Notes in Computer Science*, **2016**, 341-350 0.9
- 4 Finding Critical Nodes in Networks Using Variable Neighborhood Search. *Lecture Notes in Computer Science*, **2021**, 1-13 0.9
- 3 Influence of the Alternative Objective Functions in the Optimization of the Cyclic Cutwidth Minimization Problem. *Lecture Notes in Computer Science*, **2021**, 139-149 0.9
- 2 Linear Layout Problems **2018**, 1025-1049
- 1 A general variable neighborhood search approach for the minimum load coloring problem. *Optimization Letters*, **1** 1.1