Abraham Duarte

List of Publications by Year in Descending Order

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	A general variable neighborhood search for the cyclic antibandwidth problem. *Computational Optimization and Applications*, **2022**, 81, 657-687	1.4	1
132	A GRASP algorithm with Tabu Search improvement for solving the maximum intersection of k-subsets problem. *Journal of Heuristics*, **2022**, 28, 121-146	1.9	0
131	A variable neighborhood search approach for cyclic bandwidth sum problem. *Knowledge-Based Systems*, **2022**, 108680	7.3	0
130	Max-min dispersion with capacity and cost for a practical location problem. *Expert Systems With Applications*, **2022**, 200, 116899	7.8	1
129	Out of the Niche: Using Direct Search Methods to Find Multiple Global Optima. *Mathematics*, **2022**, 10, 1494	2.3	0
128	An efficient heuristic algorithm for software module clustering optimization. *Journal of Systems and Software*, **2022**, 190, 111349	3.3	1
127	Strategic oscillation for the balanced minimum sum-of-squares clustering problem. *Information Sciences*, **2021**, 585, 529-529	7.7	1
126	A Hybrid Strategic Oscillation with Path Relinking Algorithm for the Multiobjective k-Balanced Center Location Problem. *Mathematics*, **2021**, 9, 853	2.3	1
125	Multistart search for the Cyclic Cutwidth Minimization Problem. *Computers and Operations Research* , **2021**, 126, 105116	4.6	4
124	Finding Critical Nodes in Networks Using Variable Neighborhood Search. *Lecture Notes in Computer Science*, **2021**, 1-13	0.9	
123	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	
122	Two-dimensional bandwidth minimization problem: Exact and heuristic approaches. *Knowledge-Based Systems*, **2021**, 214, 106651	7.3	1
121	A heuristic approach for the online order batching problem with multiple pickers. *Computers and Industrial Engineering*, **2021**, 160, 107517	6.4	4
120	A fast variable neighborhood search approach for multi-objective community detection. *Applied Soft Computing Journal*, **2021**, 112, 107838	7.5	1
119	Solving the regenerator location problem with an iterated greedy approach. *Applied Soft Computing Journal*, **2021**, 111, 107659	7.5	0
118	An improved GRASP method for the multiple row equal facility layout problem. *Expert Systems With Applications*, **2021**, 182, 115184	7.8	2
117	An efficient variable neighborhood search for the Space-Free Multi-Row Facility Layout problem. *European Journal of Operational Research*, **2021**, 295, 893-907	5.6	5

116	BVNS Approach for the Order Processing in Parallel Picking Workstations. *Lecture Notes in Computer Science*, **2021**, 176-190	0.9	1
115	GRASP with Variable Neighborhood Descent for the online order batching problem. *Journal of Global Optimization*, **2020**, 78, 295-325	1.5	6
114	Special issue on recent innovations in variable neighborhood search. *Journal of Heuristics*, **2020**, 26, 335-338	1.9	2
113	Finding weaknesses in networks using Greedy Randomized Adaptive Search Procedure and Path Relinking. *Expert Systems*, **2020**, 37, e12540	2.1	3
112	Basic variable neighborhood search for the minimum sitting arrangement problem. *Journal of Heuristics*, **2020**, 26, 249-268	1.9	1
111	Basic VNS for a Variant of the Online Order Batching Problem. *Lecture Notes in Computer Science*, **2020**, 17-36	0.9	2
110	Optimizing Computer Networks Communication with the Band Collocation Problem: A Variable Neighborhood Search Approach. *Electronics (Switzerland)*, **2020**, 9, 1860	2.6	
109	An efficient metaheuristic for the K-page crossing number minimization problem. *Knowledge-Based Systems*, **2020**, 207, 106352	7.3	3
108	On solving the order processing in picking workstations. *Optimization Letters*, **2020**, 1	1.1	1
107	Fixed versus variable time window warehousing strategies in real time. *Progress in Artificial Intelligence*, **2020**, 9, 315-324	4	2
106	A parallel variable neighborhood search approach for the obnoxious p-median problem. *International Transactions in Operational Research*, **2020**, 27, 336-360	2.9	8
105	Solving the edge-disjoint paths problem using a two-stage method. *International Transactions in Operational Research*, **2020**, 27, 435-457	2.9	7
104	A Variable Neighborhood Search approach for the Hamiltonian p-median problem. *Applied Soft Computing Journal*, **2019**, 80, 603-616	7.5	9
103	Investigating the diversity of Type Ia supernova spectra with the open-source relational data base kaepora. *Monthly Notices of the Royal Astronomical Society*, **2019**, 486, 5785-5808	4.3	14
102	Finding Balanced Bicliques in Bipartite Graphs Using Variable Neighborhood Search. *Lecture Notes in Computer Science*, **2019**, 114-124	0.9	
101	New VNS Variants for the Online Order Batching Problem. *Lecture Notes in Computer Science*, **2019**, 89-100	0.9	3
100	On the Analysis of the Influence of the Evaluation Metric in Community Detection over Social Networks. *Electronics (Switzerland)*, **2019**, 8, 23	2.6	3
99	Detecting Weak Points in Networks Using Variable Neighborhood Search. *Lecture Notes in Computer Science*, **2019**, 141-151	0.9	

98	A Multi-Objective Parallel Iterated Greedy for Solving the p-Center and p-Dispersion Problem. *Electronics (Switzerland)*, **2019**, 8, 1440	2.6	3
97	Intelligent Multi-Start Methods. *Profiles in Operations Research*, **2019**, 221-243	1	2
96	Alternative evaluation functions for the cyclic bandwidth sum problem. *European Journal of Operational Research*, **2019**, 273, 904-919	5.6	7
95	A variable neighborhood search approach for the vertex bisection problem. *Information Sciences*, **2019**, 476, 1-18	7.7	7
94	Multi-objective memetic optimization for the bi-objective obnoxious p-median problem. *Knowledge-Based Systems*, **2018**, 144, 88-101	7.3	16
93	Tabu Search. *EURO Advanced Tutorials on Operational Research*, **2018**, 85-103	0.8	
92	A Metaheuristic Approach for the (alpha)-separator Problem. *Lecture Notes in Computer Science*, **2018**, 336-343	0.9	
91	Greedy Randomized Adaptive Search Procedures. *EURO Advanced Tutorials on Operational Research* , **2018**, 57-83	0.8	1
90	Scatter search for the bi-criteria p-median p-dispersion problem. *Progress in Artificial Intelligence*, **2018**, 7, 31-40	4	3
89	Tabu search for the dynamic Bipartite Drawing Problem. *Computers and Operations Research*, **2018**, 91, 1-12	4.6	14
88	Linear Layout Problems **2018**, 1025-1049		
87	Diversity and Equity Models **2018**, 979-998		4
86	Variable Neighborhood Descent **2018**, 341-367		21
85	Heuristics for the Bi-Objective Diversity Problem. *Expert Systems With Applications*, **2018**, 108, 193-205	7.8	5
84	Iterated Greedy algorithm for performing community detection in social networks. *Future Generation Computer Systems*, **2018**, 88, 785-791	7.5	27
83	General Variable Neighborhood Search for computing graph separators. *Optimization Letters*, **2017**, 11, 1069-1089	1.1	12
82	Parallel variable neighborhood search for the min□max order batching problem. *International Transactions in Operational Research*, **2017**, 24, 635-662	2.9	22
81	General Variable Neighborhood Search for the Order Batching and Sequencing Problem. *European Journal of Operational Research*, **2017**, 263, 82-93	5.6	40

80	Improving the performance of embedded systems with variable neighborhood search. *Applied Soft Computing Journal*, **2017**, 53, 217-226	7.5	6
79	Variable neighborhood descent for the incremental graph drawing. *Electronic Notes in Discrete Mathematics*, **2017**, 58, 183-190	0.3	1
78	Variable neighborhood scatter search for the incremental graph drawing problem. *Computational Optimization and Applications*, **2017**, 68, 775-797	1.4	9
77	Variable Neighborhood Search strategies for the Order Batching Problem. *Computers and Operations Research*, **2017**, 78, 500-512	4.6	41
76	Parallel variable neighbourhood search strategies for the cutwidth minimization problem. *IMA Journal of Management Mathematics*, **2016**, 27, 55-73	1.4	34
75	Robust total energy demand estimation with a hybrid Variable Neighborhood Search Extreme Learning Machine algorithm. *Energy Conversion and Management*, **2016**, 123, 445-452	10.6	19
74	Scatter search for the bandpass problem. *Journal of Global Optimization*, **2016**, 66, 769-790	1.5	7
73	Advanced Greedy Randomized Adaptive Search Procedure for the Obnoxious p-Median problem. *European Journal of Operational Research*, **2016**, 252, 432-442	5.6	23
72	Parallel strategic oscillation: an application to the maximum leaf spanning tree problem. *Progress in Artificial Intelligence*, **2016**, 5, 121-128	4	2
71	Linear Layout Problems **2016**, 1-25		1
70	Variable Neighborhood Descent **2016**, 1-27		9
69	Efficient Greedy Randomized Adaptive Search Procedure for the Generalized Regenerator Location Problem. *International Journal of Computational Intelligence Systems*, **2016**, 9, 1016-1027	3.4	7
68	GRASP with path relinking for the single row facility layout problem. *Knowledge-Based Systems*, **2016**, 106, 1-13	7.3	18
67	Estimating the Spanish Energy Demand Using Variable Neighborhood Search. *Lecture Notes in Computer Science*, **2016**, 341-350	0.9	
66	Solving dynamic memory allocation problems in embedded systems with parallel variable neighborhood search strategies. *Electronic Notes in Discrete Mathematics*, **2015**, 47, 85-92	0.3	13
65	VNS variants for the Max-Mean Dispersion Problem. *Electronic Notes in Discrete Mathematics*, **2015**, 47, 253-260	0.3	1
64	General Variable Neighborhood Search applied to the picking process in a warehouse. *Electronic Notes in Discrete Mathematics*, **2015**, 47, 77-84	0.3	13
63	Greedy randomized adaptive search procedure with exterior path relinking for differential dispersion minimization. *Information Sciences*, **2015**, 296, 46-60	7.7	41

62	Multiobjective GRASP with Path Relinking. *European Journal of Operational Research*, **2015**, 240, 54-71	5.6	48
61	Scatter search for the profile minimization problem. *Networks*, **2015**, 65, 10-21	1.6	12
60	An algorithm for batching, sequencing and picking operations in a warehouse **2015**,		2
59	Beyond Unfeasibility: Strategic Oscillation for the Maximum Leaf Spanning Tree Problem. *Lecture Notes in Computer Science*, **2015**, 322-331	0.9	2
58	Tabu search for the MaxMean Dispersion Problem. *Knowledge-Based Systems*, **2015**, 85, 256-264	7.3	22
57	Multi-objective variable neighborhood search: an application to combinatorial optimization problems. *Journal of Global Optimization*, **2015**, 63, 515-536	1.5	48
56	Diversity and Equity Models **2015**, 1-20		1
55	Segmentation Algorithms for Thermal Images. *Procedia Technology*, **2014**, 16, 1560-1569		40
54	GRASP with path relinking for the orienteering problem. *Journal of the Operational Research Society* , **2014**, 65, 1800-1813	2	40
53	GRASP with ejection chains for the dynamic memory allocation in embedded systems. *Soft Computing*, **2014**, 18, 1515-1527	3.5	7
52	Combining intensification and diversification strategies in VNS. An application to the Vertex Separation problem. *Computers and Operations Research*, **2014**, 52, 209-219	4.6	39
51	Optimization procedures for the bipartite unconstrained 0-1 quadratic programming problem. *Computers and Operations Research*, **2014**, 51, 123-129	4.6	15
50	Improved heuristics for the regenerator location problem. *International Transactions in Operational Research*, **2014**, 21, 541-558	2.9	19
49	A black-box scatter search for optimization problems with integer variables. *Journal of Global Optimization*, **2014**, 58, 497-516	1.5	25
48	Heuristics and metaheuristics for the maximum diversity problem. *Journal of Heuristics*, **2013**, 19, 591-615	1.9	46
47	A hybrid metaheuristic for the cyclic antibandwidth problem. *Knowledge-Based Systems*, **2013**, 54, 103-111	7.3	22
46	Designing effective improvement methods for scatter search: an experimental study on global optimization. *Soft Computing*, **2013**, 17, 49-62	3.5	11
45	Variable Formulation Search for the Cutwidth Minimization Problem. *Applied Soft Computing Journal*, **2013**, 13, 2242-2252	7.5	53

44	Branch and bound for the cutwidth minimization problem. *Computers and Operations Research*, **2013**, 40, 137-149	4.6	18
43	Tabu search with strategic oscillation for the maximally diverse grouping problem. *Journal of the Operational Research Society*, **2013**, 64, 724-734	2	47
42	Low-Level Hybridization of Scatter Search and Particle Filter for Dynamic TSP Solving. *Studies in Computational Intelligence*, **2013**, 291-308	0.8	3
41	Scatter Search and Path Relinking **2013**, 1-21		
40	Metaheuristics for the linear ordering problem with cumulative costs. *European Journal of Operational Research*, **2012**, 216, 270-277	5.6	19
39	A benchmark library and a comparison of heuristic methods for the linear ordering problem. *Computational Optimization and Applications*, **2012**, 51, 1297-1317	1.4	30
38	Scatter search for the cutwidth minimization problem. *Annals of Operations Research*, **2012**, 199, 285-304	3.2	41
37	Variable neighborhood search with ejection chains for the antibandwidth problem. *Journal of Heuristics*, **2012**, 18, 919-938	1.9	22
36	Variable neighborhood search for the Vertex Separation Problem. *Computers and Operations Research*, **2012**, 39, 3247-3255	4.6	42
35	An experimental comparison of Variable Neighborhood Search variants for the minimization of the vertex-cut in layout problems. *Electronic Notes in Discrete Mathematics*, **2012**, 39, 59-66	0.3	3
34	A Variable Neighbourhood Search approach to the Cutwidth Minimization Problem. *Electronic Notes in Discrete Mathematics*, **2012**, 39, 67-74	0.3	2
33	Scatter Search and Path Relinking. *International Journal of Swarm Intelligence Research*, **2011**, 2, 1-21	1.1	10
32	The Scatter Search Methodology **2011**,		2
31	Tabu search for the linear ordering problem with cumulative costs. *Computational Optimization and Applications*, **2011**, 48, 697-715	1.4	17
30	Path relinking for large-scale global optimization. *Soft Computing*, **2011**, 15, 2257-2273	3.5	19
29	Hybrid scatter tabu search for unconstrained global optimization. *Annals of Operations Research*, **2011**, 183, 95-123	3.2	37
28	GRASP with path relinking heuristics for the antibandwidth problem. *Networks*, **2011**, 58, 171-189	1.6	34
27	Pseudo-Cut Strategies for Global Optimization. *International Journal of Applied Metaheuristic Computing*, **2011**, 2, 1-12	0.8	2

26	Heuristics for the bandwidth colouring problem. *International Journal of Metaheuristics*, **2010**, 1, 11	0.8	9
25	Adaptive memory programming for constrained global optimization. *Computers and Operations Research*, **2010**, 37, 1500-1509	4.6	28
24	A branch and bound algorithm for the maximum diversity problem. *European Journal of Operational Research*, **2010**, 200, 36-44	5.6	53
23	GRASP and path relinking for the max-min diversity problem. *Computers and Operations Research*, **2010**, 37, 498-508	4.6	129
22	Black box scatter search for general classes of binary optimization problems. *Computers and Operations Research*, **2010**, 37, 1977-1986	4.6	20
21	Improving Iterated Local Search Solution for the Linear Ordering Problem with Cumulative Costs (LOPCC). *Lecture Notes in Computer Science*, **2010**, 183-192	0.9	5
20	GRASP for Instance Selection in Medical Data Sets. *Advances in Intelligent and Soft Computing*, **2010**, 53-60		1
19	Advanced Multi-start Methods. *Profiles in Operations Research*, **2010**, 265-281	1	21
18	Advanced Scatter Search for the Max-Cut Problem. *INFORMS Journal on Computing*, **2009**, 21, 26-38	2.4	74
17	**2009**,		3
16	Hybrid heuristics for the maximum diversity problem. *Computational Optimization and Applications*, **2009**, 44, 411-426	1.4	32
15	Hybridizing the cross-entropy method: An application to the max-cut problem. *Computers and Operations Research*, **2009**, 36, 487-498	4.6	19
14	Heuristics for the bi-objective path dissimilarity problem. *Computers and Operations Research*, **2009**, 36, 2905-2912	4.6	36
13	Multi-dimensional visual tracking using scatter search particle filter. *Pattern Recognition Letters*, **2008**, 29, 1160-1174	4.7	19
12	Tabu search and GRASP for the maximum diversity problem. *European Journal of Operational Research*, **2007**, 178, 71-84	5.6	84
11	Improving image segmentation quality through effective region merging using a hierarchical social metaheuristic. *Pattern Recognition Letters*, **2006**, 27, 1239-1251	4.7	32
10	Region Merging for Severe Oversegmented Images Using a Hierarchical Social Metaheuristic. *Lecture Notes in Computer Science*, **2005**, 345-355	0.9	2
9	A low-level hybridization between memetic algorithm and VNS for the max-cut problem **2005**,		14

8	Scatter Search Particle Filter to Solve the Dynamic Travelling Salesman Problem. *Lecture Notes in Computer Science*, **2005**, 177-189	0.9	6
7	A Hierarchical Social Metaheuristic for the Max-Cut Problem. *Lecture Notes in Computer Science*, **2004**, 84-94	0.9	10
6	Top-Down Evolutionary Image Segmentation Using a Hierarchical Social Metaheuristic. *Lecture Notes in Computer Science*, **2004**, 301-311	0.9	4
5	Path Relinking Particle Filter for Human Body Pose Estimation. *Lecture Notes in Computer Science*, **2004**, 653-661	0.9	4
4			1
3	Pseudo-Cut Strategies for Global Optimization188-198		
2	A quick GRASP-based method for influence maximization in social networks. *Journal of Ambient Intelligence and Humanized Computing*,1	3.7	2
1	A general variable neighborhood search approach for the minimum load coloring problem. *Optimization Letters*,1	1.1	