

# Said Salhi

## 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.

121  
papers

4,028  
citations

33  
h-index

61  
g-index

127  
ext. papers

4,553  
ext. citations

3.8  
avg, IF

5.9  
L-index

#	Paper	IF	Citations
121	Location-routing: Issues, models and methods. <i>European Journal of Operational Research</i> , <b>2007</b> , 177, 649-672	5.6	605
120	Heuristic algorithms for single and multiple depot vehicle routing problems with pickups and deliveries. <i>European Journal of Operational Research</i> , <b>2005</b> , 162, 126-141	5.6	273
119	The effect of ignoring routes when locating depots. <i>European Journal of Operational Research</i> , <b>1989</b> , 39, 150-156	5.6	215
118	A multi-level composite heuristic for the multi-depot vehicle fleet mix problem. <i>European Journal of Operational Research</i> , <b>1997</b> , 103, 95-112	5.6	135
117	Inventory routing problems: a logistical overview. <i>Journal of the Operational Research Society</i> , <b>2007</b> , 58, 1185-1194	2	124
116	An efficient hybrid genetic algorithm for the multi-product multi-period inventory routing problem. <i>International Journal of Production Economics</i> , <b>2011</b> , 133, 334-343	9.3	114
115	Measuring the environmental sustainability performance of global supply chains: A multi-regional input-output analysis for carbon, sulphur oxide and water footprints. <i>Journal of Environmental Management</i> , <b>2017</b> , 187, 571-585	7.9	108
114	A variable neighborhood-based heuristic for the heterogeneous fleet vehicle routing problem. <i>European Journal of Operational Research</i> , <b>2009</b> , 197, 509-518	5.6	96
113	The multi-depot vehicle routing problem with heterogeneous vehicle fleet: Formulation and a variable neighborhood search implementation. <i>Computers and Operations Research</i> , <b>2014</b> , 52, 315-325	4.6	95
112	The investigation of a class of capacitated arc routing problems: the collection of garbage in developing countries. <i>Waste Management</i> , <b>2004</b> , 24, 711-21	8.6	87
111	Solving the multiple competitive facilities location problem. <i>European Journal of Operational Research</i> , <b>2002</b> , 142, 138-151	5.6	86
110	Theoretical investigation of isomer stability in platinum-palladium nanoalloy clusters. <i>Journal of Materials Chemistry</i> , <b>2004</b> , 14, 1691-1704		79
109	A multi-phase constructive heuristic for the vehicle routing problem with multiple trips. <i>Discrete Applied Mathematics</i> , <b>2003</b> , 133, 69-92	1	73
108	Incorporating vehicle routing into the vehicle fleet composition problem. <i>European Journal of Operational Research</i> , <b>1993</b> , 66, 313-330	5.6	71
107	A GA Based Heuristic for the Vehicle Routing Problem with Multiple Trips. <i>Mathematical Modelling and Algorithms</i> , <b>2007</b> , 6, 591-613		68
106	A Genetic Algorithm Based Approach for the Uncapacitated Continuous Location Allocation Problem. <i>Annals of Operations Research</i> , <b>2003</b> , 123, 203-222	3.2	61
105	Genetic clustering: An adaptive heuristic for the multidepot vehicle routing problem. <i>Applied Artificial Intelligence</i> , <b>2001</b> , 15, 361-383	2.3	60

104	A Tabu Search Approach for the Resource Constrained Project Scheduling Problem. <i>Journal of Heuristics</i> , <b>1998</b> , 4, 123-139	1.9	59
103	Defining tabu list size and aspiration criterion within tabu search methods. <i>Computers and Operations Research</i> , <b>2002</b> , 29, 67-86	4.6	56
102	A new local search for continuous location problems. <i>European Journal of Operational Research</i> , <b>2014</b> , 232, 256-265	5.6	55
101	The impact of hub failure in hub-and-spoke networks: Mathematical formulations and solution techniques. <i>Computers and Operations Research</i> , <b>2016</b> , 65, 174-188	4.6	53
100	Nested Heuristic Methods for the Location-Routeing Problem. <i>Journal of the Operational Research Society</i> , <b>1996</b> , 47, 1166-1174	2	52
99	A survey of effective heuristics and their application to a variety of knapsack problems. <i>IMA Journal of Management Mathematics</i> , <b>2007</b> , 19, 227-244	1.4	50
98	A multi-objective heuristic approach for the casualty collection points location problem. <i>Journal of the Operational Research Society</i> , <b>2006</b> , 57, 727-734	2	47
97	New heuristic algorithms for solving the planar p-median problem. <i>Computers and Operations Research</i> , <b>2015</b> , 62, 296-304	4.6	44
96	The Fleet Size and Mix Vehicle Routing Problem with Backhauls: Formulation and Set Partitioning-based Heuristics. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , <b>2013</b> , 56, 22-35	9	44
95	Using hybrid metaheuristics for the one-way and two-way network design problem. <i>Naval Research Logistics</i> , <b>2002</b> , 49, 449-463	1.5	42
94	The cumulative capacitated vehicle routing problem with min-sum and min-max objectives: An effective hybridisation of adaptive variable neighbourhood search and large neighbourhood search. <i>Transportation Research Part B: Methodological</i> , <b>2017</b> , 101, 162-184	7.2	40
93	The Multiple Trip Vehicle Routing Problem with Backhauls: Formulation and a Two-Level Variable Neighbourhood Search. <i>Computers and Operations Research</i> , <b>2017</b> , 78, 454-467	4.6	39
92	Strategies for increasing the efficiency of a genetic algorithm for the structural optimization of nanoalloy clusters. <i>Journal of Computational Chemistry</i> , <b>2005</b> , 26, 1069-78	3.5	35
91	Improvements to Vehicle Routeing Heuristics. <i>Journal of the Operational Research Society</i> , <b>1987</b> , 38, 293-295		35
90	Region-rejection based heuristics for the capacitated multi-source Weber problem. <i>Computers and Operations Research</i> , <b>2009</b> , 36, 2007-2017	4.6	33
89	A hybrid algorithm for identifying global and local minima when optimizing functions with many minima. <i>European Journal of Operational Research</i> , <b>2004</b> , 155, 51-67	5.6	33
88	Lagrangian heuristics applied to a variety of large capacitated plant location problems. <i>Journal of the Operational Research Society</i> , <b>1998</b> , 49, 1072-1084	2	32
87	A hybridisation of adaptive variable neighbourhood search and large neighbourhood search: Application to the vehicle routing problem. <i>Expert Systems With Applications</i> , <b>2016</b> , 65, 383-397	7.8	31

86	Constructive heuristics for the uncapacitated continuous location-allocation problem. <i>Journal of the Operational Research Society</i> , <b>2001</b> , 52, 821-829	2	31
85	Tabu search model selection in multiple regression analysis. <i>Communications in Statistics Part B: Simulation and Computation</i> , <b>1999</b> , 28, 349-367	0.6	31
84	Local improvement in planar facility location using vehicle routing. <i>Annals of Operations Research</i> , <b>2009</b> , 167, 287-296	3.2	30
83	A guided reactive GRASP for the capacitated multi-source Weber problem. <i>Computers and Operations Research</i> , <b>2011</b> , 38, 1014-1024	4.6	29
82	A perturbation-based heuristic for the capacitated multisource Weber problem. <i>European Journal of Operational Research</i> , <b>2007</b> , 179, 1194-1207	5.6	29
81	Location equilibria for a continuous competitive facility location problem under delivered pricing. <i>Computers and Operations Research</i> , <b>2014</b> , 41, 185-195	4.6	28
80	A Continuous Location-Allocation Problem with Zone-Dependent Fixed Cost. <i>Annals of Operations Research</i> , <b>2005</b> , 136, 99-115	3.2	28
79	A hierarchical algorithm for the planar single-facility location routing problem. <i>Computers and Operations Research</i> , <b>2012</b> , 39, 461-470	4.6	26
78	New local searches for solving the multi-source Weber problem. <i>Annals of Operations Research</i> , <b>2016</b> , 246, 181-203	3.2	25
77	A cellular heuristic for the multisource Weber problem. <i>Computers and Operations Research</i> , <b>2003</b> , 30, 1609-1624	4.6	25
76	Hybrid meta-heuristics with VNS and exact methods: application to large unconditional and conditional vertex (p)-centre problems. <i>Journal of Heuristics</i> , <b>2016</b> , 22, 507-537	1.9	24
75	The planar multiple obnoxious facilities location problem: A Voronoi based heuristic. <i>Omega</i> , <b>2019</b> , 87, 105-116	7.2	24
74	Lagrangian relaxation heuristics for the uncapacitated single-source multi-product facility location problem. <i>International Journal of Production Economics</i> , <b>2013</b> , 145, 713-723	9.3	23
73	An adaptive multiphase approach for large unconditional and conditional p-median problems. <i>European Journal of Operational Research</i> , <b>2014</b> , 237, 590-605	5.6	23
72	The multi-source Weber problem with constant opening cost. <i>Journal of the Operational Research Society</i> , <b>2004</b> , 55, 640-646	2	22
71	Heuristic Search <b>2017</b> ,		21
70	An iterative variable-based fixation heuristic for the 0-1 multidimensional knapsack problem. <i>European Journal of Operational Research</i> , <b>2009</b> , 199, 339-348	5.6	21
69	Hyper-heuristic approaches for the response time variability problem. <i>European Journal of Operational Research</i> , <b>2011</b> , 211, 160-169	5.6	20

68	Speeding up the optimal method of Drezner for the p -centre problem in the plane. <i>European Journal of Operational Research</i> , <b>2017</b> , 257, 722-734	5.6	19
67	Incorporating neighborhood reduction for the solution of the planar p-median problem. <i>Annals of Operations Research</i> , <b>2017</b> , 258, 639-654	3.2	17
66	Exact and heuristic methods for a full-load, multi-terminal, vehicle scheduling problem with backhauling and time windows. <i>Journal of the Operational Research Society</i> , <b>2003</b> , 54, 390-400	2	17
65	A genetic algorithm based approach to intelligent modelling and control of pH in reactors. <i>Computers and Chemical Engineering</i> , <b>2004</b> , 28, 1743-1757	4	17
64	The heterogeneous fleet vehicle routing problem with light loads and overtime: Formulation and population variable neighbourhood search with adaptive memory. <i>Expert Systems With Applications</i> , <b>2018</b> , 114, 183-195	7.8	15
63	A hybrid data mining metaheuristic for the p-median problem. <i>Statistical Analysis and Data Mining</i> , <b>2011</b> , 4, 313-335	1.4	15
62	An integration of Lagrangian split and VNS: The case of the capacitated vehicle routing problem. <i>Computers and Operations Research</i> , <b>2017</b> , 78, 513-525	4.6	14
61	Solving large (p)-median problems by a multistage hybrid approach using demand points aggregation and variable neighbourhood search. <i>Journal of Global Optimization</i> , <b>2015</b> , 63, 537-554	1.5	14
60	The obnoxious p facility network location problem with facility interaction. <i>European Journal of Operational Research</i> , <b>1997</b> , 102, 302-319	5.6	14
59	The multifacility maximin planar location problem with facility interaction. <i>IMA Journal of Management Mathematics</i> , <b>2006</b> , 17, 397-412	1.4	14
58	An Ant System Algorithm for the Mixed Vehicle Routing Problem with Backhauls. <i>Applied Optimization</i> , <b>2003</b> , 699-719		14
57	Solving the planar p-median problem by variable neighborhood and concentric searches. <i>Journal of Global Optimization</i> , <b>2015</b> , 63, 501-514	1.5	13
56	A perturbation heuristic for a class of location problems. <i>Journal of the Operational Research Society</i> , <b>1997</b> , 48, 1233-1240	2	13
55	Hector, a new methodology for continuous and pattern-free heliostat field optimization. <i>Applied Energy</i> , <b>2018</b> , 225, 1123-1131	10.7	12
54	An adaptive perturbation-based heuristic: An application to the continuous p-centre problem. <i>Computers and Operations Research</i> , <b>2016</b> , 75, 1-11	4.6	12
53	Integrating heuristic information into exact methods: The case of the vertex p-centre problem. <i>Journal of the Operational Research Society</i> , <b>2010</b> , 61, 1619-1631	2	11
52	Scheduling commercial advertisements for television. <i>International Journal of Production Research</i> , <b>2015</b> , 53, 1198-1215	7.8	10
51	The vehicle routing problem with restricted mixing of deliveries and pickups. <i>Journal of Scheduling</i> , <b>2013</b> , 16, 199-213	1.6	10

50	Aggregation and non aggregation techniques for large facility location problems: A survey. <i>Yugoslav Journal of Operations Research</i> , <b>2015</b> , 25, 313-341	0.9	10
49	The incorporation of fixed cost and multilevel capacities into the discrete and continuous single source capacitated facility location problem. <i>Annals of Operations Research</i> , <b>2019</b> , 275, 367-392	3.2	9
48	The continuous single source location problem with capacity and zone-dependent fixed cost: Models and solution approaches. <i>European Journal of Operational Research</i> , <b>2017</b> , 263, 94-107	5.6	8
47	A Cross Entropy-based heuristic for the capacitated multi-source Weber problem with facility fixed cost. <i>Computers and Industrial Engineering</i> , <b>2015</b> , 83, 151-158	6.4	8
46	The continuous p-centre problem: An investigation into variable neighbourhood search with memory. <i>European Journal of Operational Research</i> , <b>2015</b> , 241, 606-621	5.6	8
45	Tension in big data using machine learning: Analysis and applications. <i>Technological Forecasting and Social Change</i> , <b>2020</b> , 158, 120175	9.5	8
44	Solving capacitated vehicle routing problem by artificial bee colony algorithm <b>2014</b> ,		8
43	Adaptive hybrid learning for neural networks. <i>Neural Computation</i> , <b>2004</b> , 16, 139-57	2.9	8
42	Subdrop: A modified drop heuristic for location problems. <i>Location Science</i> , <b>1995</b> , 3, 267-273		8
41	Packing rectangles into a fixed size circular container: Constructive and metaheuristic search approaches. <i>European Journal of Operational Research</i> , <b>2020</b> , 285, 865-883	5.6	7
40	A Tabu Search Heuristic for the Location of Multi-Type Protection Devices on Electrical Supply Tree Networks. <i>Journal of Combinatorial Optimization</i> , <b>2002</b> , 6, 81-98	0.9	7
39	Using injection points in reformulation local search for solving continuous location problems. <i>Yugoslav Journal of Operations Research</i> , <b>2017</b> , 27, 291-300	0.9	7
38	The electric location-routing problem with heterogeneous fleet: Formulation and Benders decomposition approach. <i>Computers and Operations Research</i> , <b>2021</b> , 131, 105251	4.6	7
37	Design of a parallel genetic algorithm for continuous and pattern-free heliostat field optimization. <i>Journal of Supercomputing</i> , <b>2019</b> , 75, 1268-1283	2.5	6
36	Optimal solutions for the continuous p-centre problem and related -neighbour and conditional problems: A relaxation-based algorithm. <i>Journal of the Operational Research Society</i> , <b>2019</b> , 70, 192-211	2	6
35	Formulation and a two-phase matheuristic for the roaming salesman problem: Application to election logistics. <i>European Journal of Operational Research</i> , <b>2020</b> , 280, 656-670	5.6	6
34	A quadtree-based allocation method for a class of large discrete Euclidean location problems. <i>Computers and Operations Research</i> , <b>2015</b> , 55, 23-35	4.6	5
33	An effective real time GRASP-based metaheuristic: Application to order consolidation and dynamic selection of transshipment points for time-critical freight logistics. <i>Expert Systems With Applications</i> , <b>2020</b> , 158, 113574	7.8	5

32	A Constructive Method and a Guided Hybrid GRASP for the Capacitated Multi-Source Weber Problem in the Presence of Fixed Cost. <i>Journal of Algorithms and Computational Technology</i> , <b>2015</b> , 9, 215-232	0.7	5
31	Generating good starting solutions for the p-median problem in the plane. <i>Electronic Notes in Discrete Mathematics</i> , <b>2012</b> , 39, 225-232	0.3	5
30	An adaptive search for the response time variability problem. <i>Journal of the Operational Research Society</i> , <b>2012</b> , 63, 597-605	2	5
29	Solution of classical transport problems with bee algorithms. <i>International Journal of Logistics Systems and Management</i> , <b>2013</b> , 15, 160	0.7	4
28	Development of a Genetic Algorithm for Optimization of Nanoalloys. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 1316-1317	0.9	4
27	The location-routing problem with multi-compartment and multi-trip: formulation and heuristic approaches. <i>Transportmetrica A: Transport Science</i> , <b>2020</b> , 16, 501-528	2.5	3
26	Solving the Mixed Backhauling Vehicle Routing. <i>International Journal of Energy Optimization and Engineering</i> , <b>2013</b> , 2, 62-77	0.9	3
25	When Green Technology Meets Optimization Modeling: The Case of Routing Drones in Logistics, Agriculture, and Healthcare <b>2020</b> , 127-145		3
24	Reliable hub-and-spoke systems with multiple capacity levels and flow dependent discount factor. <i>European Journal of Operational Research</i> , <b>2021</b> , 298, 834-834	5.6	3
23	Not Necessary Improving Heuristics <b>2017</b> , 49-76		2
22	The continuous single-source capacitated multi-facility Weber problem with setup costs: formulation and solution methods. <i>Journal of Global Optimization</i> , <b>2020</b> , 78, 271-294	1.5	2
21	The multi-depot heterogeneous VRP with backhauls: formulation and a hybrid VNS with GRAMPS meta-heuristic approach. <i>Annals of Operations Research</i> , <b>2021</b> , 307, 277	3.2	2
20	A continuous location and maintenance routing problem for offshore wind farms: Mathematical models and hybrid methods. <i>Computers and Operations Research</i> , <b>2022</b> , 105825	4.6	2
19	New MAXCAP related problems: Formulation and model solutions. <i>Computers and Industrial Engineering</i> , <b>2015</b> , 85, 248-259	6.4	1
18	Splitting a Giant Tour using Integer Linear Programming. <i>Electronic Notes in Discrete Mathematics</i> , <b>2015</b> , 47, 245-252	0.3	1
17	Heuristics are here to help your online vehicle scheduling. <i>OR Insight</i> , <b>2009</b> , 22, 88-104		1
16	Predicting Colorectal Cancer Recurrence: A Hybrid Neural Networks-Based Approach <b>2005</b> , 259-285		1
15	Recent Developments in Real Life Vehicle Routing Problem Applications <b>2020</b> , 213-228		1

14	An Overview of Heuristics and Metaheuristics <b>2022</b> , 353-403		1
13	A matheuristic approach for the split delivery vehicle routing problem: an efficient set covering-based model with guided route generation schemes. <i>International Journal of Mathematics in Operational Research</i> , <b>2019</b> , 15, 65	0.8	0
12	Hybridisation Search <b>2017</b> , 129-156		
11	Improvement-Only Heuristics <b>2017</b> , 19-47		
10	Implementation Issues <b>2017</b> , 157-188		
9	Applications, Conclusion and Research Challenges <b>2017</b> , 189-209		
8	Drezner's Exact Method for the Continuous p-Centre Problem Revisited. <i>Electronic Notes in Discrete Mathematics</i> , <b>2016</b> , 55, 41-44	0.3	
7	Customer Allocation in Maximum Capture Problems. <i>Mathematical Modelling and Algorithms</i> , <b>2012</b> , 11, 281-293		
6	Semi-dynamic Demand in a Non-permutation Flowshop with Constrained Resequencing Buffers. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 536-544	0.9	
5	Neighbourhood Reduction in Global and Combinatorial Optimization: The Case of the p-Centre Problem. <i>Profiles in Operations Research</i> , <b>2019</b> , 195-220		1
4	Population-Based Heuristics <b>2017</b> , 77-128		
3	Multi-period travelling politician problem: A hybrid metaheuristic solution method. <i>Journal of the Operational Research Society</i> , 1-36		2
2	Preface: advances in theoretical and practical combinatorial optimization. <i>Annals of Operations Research</i> , <b>2019</b> , 272, 1-2		3.2
1	The New Era of Hybridisation and Learning in Heuristic Search Design <b>2022</b> , 501-538		