Bruce L Golden

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	4,961 citations	35 h-index	69 g-index
126 ext. papers	5,902 ext. citations	2.9 avg, IF	5.92 L-index

#	Paper	IF	Citations
121	The orienteering problem. *Naval Research Logistics*, **1987**, 34, 307-318	1.5	432
120	Optimization approaches for civil applications of unmanned aerial vehicles (UAVs) or aerial drones: A survey. *Networks*, **2018**, 72, 411-458	1.6	305
119	The fleet size and mix vehicle routing problem. *Computers and Operations Research*, **1984**, 11, 49-66	4.6	288
118	A fast and effective heuristic for the orienteering problem. *European Journal of Operational Research*, **1996**, 88, 475-489	5.6	230
117	Classification in vehicle routing and scheduling. *Networks*, **1981**, 11, 97-108	1.6	207
116	The vehicle routing problem with drones: several worst-case results. *Optimization Letters*, **2017**, 11, 679-697	1.9	186
115	Very large-scale vehicle routing: new test problems, algorithms, and results. *Computers and Operations Research*, **2005**, 32, 1165-1179	4.6	167
114	The Impact of Metaheuristics on Solving the Vehicle Routing Problem: Algorithms, Problem Sets, and Computational Results **1998**, 33-56		150
113	The open vehicle routing problem: Algorithms, large-scale test problems, and computational results. *Computers and Operations Research*, **2007**, 34, 2918-2930	4.6	145
112	Using Experimental Design to Find Effective Parameter Settings for Heuristics. *Journal of Heuristics*, **2001**, 7, 77-97	1.9	145
111	The vehicle routing problem with drones: Extended models and connections. *Networks*, **2017**, 70, 34-43	1.6	135
110	A record-to-record travel algorithm for solving the heterogeneous fleet vehicle routing problem. *Computers and Operations Research*, **2007**, 34, 2734-2742	4.6	125
109	Using simulated annealing to solve routing and location problems. *Naval Research Logistics Quarterly*, **1986**, 33, 261-279		124
108	The Consistent Vehicle Routing Problem. *Manufacturing and Service Operations Management*, **2009**, 11, 630-643	4.6	121
107	A library of local search heuristics for the vehicle routing problem. *Mathematical Programming Computation*, **2010**, 2, 79-101	7.8	98
106	An improved heuristic for the period vehicle routing problem. *Networks*, **1995**, 26, 25-44	1.6	96
105	Linear programming models for estimating weights in the analytic hierarchy process. *Computers and Operations Research*, **2005**, 32, 2235-2254	4.6	87

104	The split delivery vehicle routing problem: Applications, algorithms, test problems, and computational results. *Networks*, **2007**, 49, 318-329	1.6	78
103	OR Practice Computerized Vehicle Routing in the Soft Drink Industry. *Operations Research*, **1987**, 35, 6-17	2.3	74
102	A New Heuristic for the Multi-Depot Vehicle Routing Problem that Improves upon Best-Known Solutions. *American Journal of Mathematical and Management Sciences*, **1993**, 13, 371-406	0.6	72
101	Transforming arc routing into node routing problems. *Computers and Operations Research*, **1987**, 14, 285-288	4.6	71
100	Visualizing group decisions in the analytic hierarchy process. *Computers and Operations Research*, **2003**, 30, 1435-1445	4.6	70
99	Interval estimation of a global optimum for large combinatorial problems. *Naval Research Logistics Quarterly*, **1979**, 26, 69-77		69
98	Vehicle routing problems in which consistency considerations are important: A survey. *Networks*, **2014**, 64, 192-213	1.6	62
97	A Branch-and-Bound Approach to the Traveling Salesman Problem with a Drone. *INFORMS Journal on Computing*, **2019**, 31, 335-346	2.4	59
96	The multi-depot split delivery vehicle routing problem: An integer programming-based heuristic, new test problems, and computational results. *Computers and Industrial Engineering*, **2011**, 61, 794-804	6.4	54
95	Multi-visit drone routing problem. *Computers and Operations Research*, **2020**, 113, 104802	4.6	49
94	The Generalized Covering Salesman Problem. *INFORMS Journal on Computing*, **2012**, 24, 534-553	2.4	47
93	A Parallel Algorithm for the Vehicle Routing Problem. *INFORMS Journal on Computing*, **2011**, 23, 315-330	2.4	45
92	Examining the discharge practices of surgeons at a large medical center. *Health Care Management Science*, **2011**, 14, 338-47	4	43
91	The split delivery vehicle routing problem with minimum delivery amounts. *Transportation Research, Part E: Logistics and Transportation Review*, **2010**, 46, 612-626	9	42
90	The period vehicle routing problem: New heuristics and real-world variants. *Transportation Research, Part E: Logistics and Transportation Review*, **2011**, 47, 648-668	9	41
89	Heuristic Search for the Generalized Minimum Spanning Tree Problem. *INFORMS Journal on Computing*, **2005**, 17, 290-304	2.4	39
88	Solving the one-dimensional bin packing problem with a weight annealing heuristic. *Computers and Operations Research*, **2008**, 35, 2283-2291	4.6	37
87	Vehicle Routing by Land, Sea, and Air. *Interfaces*, **1992**, 22, 1-3	0.7	37

86	A Genetic Algorithm-Based Approach for Building Accurate Decision Trees. *INFORMS Journal on Computing*, **2003**, 15, 3-22	2.4	35
85	Carousel greedy: A generalized greedy algorithm with applications in optimization. *Computers and Operations Research*, **2017**, 85, 97-112	4.6	33
84	The impact of hospital utilization on patient readmission rate. *Health Care Management Science*, **2012**, 15, 29-36	4	33
83	Estimating the length of the optimal TSP tour: An empirical study using regression and neural networks. *Computers and Operations Research*, **1995**, 22, 1039-1046	4.6	33
82	Comparison of Metaheuristics. *Profiles in Operations Research*, **2010**, 625-640	1	33
81	Worst-case behavior of the MVCA heuristic for the minimum labeling spanning tree problem. *Operations Research Letters*, **2005**, 33, 77-80	1	32
80	Large-scale controlled rounding using tabu search with strategic oscillation. *Annals of Operations Research*, **1993**, 41, 69-84	3.2	32
79	Reducing Boarding in a Post-Anesthesia Care Unit. *Production and Operations Management*, **2011**, 20, 431-441	3.6	31
78	A Computational Study Of A New Heuristic For The Site-Dependent Vehicle Routing Problem. *Infor*, **1999**, 37, 319-336	0.5	31
77	MinMax vs. MinSum Vehicle Routing: A worst-case analysis. *European Journal of Operational Research*, **2015**, 240, 372-381	5.6	29
76	MRSA Transmission Reduction Using Agent-Based Modeling and Simulation. *INFORMS Journal on Computing*, **2010**, 22, 635-646	2.4	29
75	Improved Heuristics for the Minimum Label Spanning Tree Problem. *IEEE Transactions on Evolutionary Computation*, **2006**, 10, 700-703	15.6	25
74	A new heuristic for determining fleet size and composition. *Mathematical Programming Studies*, **1986**, 233-236		24
73	Applying queueing theory to the study of emergency department operations: a survey and a discussion of comparable simulation studies. *International Transactions in Operational Research*, **2018**, 25, 7-49	2.9	23
72	The Mothership and Drone Routing Problem. *INFORMS Journal on Computing*, **2020**, 32, 249-262	2.4	22
71	The Generalized Traveling Salesman Problem: A New Genetic Algorithm Approach **2007**, 165-181		21
70	A novel approach to solve the split delivery vehicle routing problem. *International Transactions in Operational Research*, **2017**, 24, 27-41	2.9	20
69	Using a Genetic Algorithm to Solve the Generalized Orienteering Problem. *Operations Research/ Computer Science Interfaces Series*, **2008**, 263-274	0.3	20

68	Applications of Agent-Based Modeling and Simulation to Healthcare Operations Management. *Profiles in Operations Research*, **2013**, 45-74	1	19
67	Plowing with precedence: A variant of the windy postman problem. *Computers and Operations Research*, **2013**, 40, 1047-1059	4.6	18
66	The effective application of a new approach to the generalized orienteering problem. *Journal of Heuristics*, **2010**, 16, 393-415	1.9	18
65	Using Simulated Annealing to Solve Controlled Rounding Problems. *ORSA Journal on Computing*, **1990**, 2, 174-185		18
64	A visualization model based on adjacency data. *Decision Support Systems*, **2002**, 33, 349-362	5.6	17
63	Drivers of ED efficiency: a statistical and cluster analysis of volume, staffing, and operations. *American Journal of Emergency Medicine*, **2016**, 34, 155-61	2.9	15
62	Life Is All about Timing: An Examination of Differences in Treatment Quality for Trauma Patients Based on Hospital Arrival Time. *Production and Operations Management*, **2014**, 23, 2178-2190	3.6	15
61	The min-max multi-depot vehicle routing problem: heuristics and computational results. *Journal of the Operational Research Society*, **2015**, 66, 1430-1441	2	13
60	The minmax split delivery multi-depot vehicle routing problem with minimum service time requirement. *Computers and Operations Research*, **2016**, 71, 110-126	4.6	13
59	Vehicle Routing with Time-Window Constraints. *American Journal of Mathematical and Management Sciences*, **1986**, 6, 251-260	0.6	13
58	The Colorful Traveling Salesman Problem **2007**, 115-123		13
57	Partitioning a street network into compact, balanced, and visually appealing routes. *Networks*, **2017**, 69, 290-303	1.6	12
56	The hierarchical traveling salesman problem. *Optimization Letters*, **2013**, 7, 1517-1524	1.1	12
55	The prize-collecting generalized minimum spanning tree problem. *Journal of Heuristics*, **2008**, 14, 69-93	1.9	12
54	The windy rural postman problem with a time-dependent zigzag option. *European Journal of Operational Research*, **2017**, 258, 1131-1142	5.6	11
53	The balanced billing cycle vehicle routing problem. *Networks*, **2009**, 54, 243-254	1.6	11
52	The Multilevel Capacitated Minimum Spanning Tree Problem. *INFORMS Journal on Computing*, **2006**, 18, 348-365	2.4	11
51	Solving the Time Dependent Traveling Salesman Problem **2005**, 163-182		11

50	A Steiner Zone Variable Neighborhood Search Heuristic for the Close-Enough Traveling Salesman Problem. *Computers and Operations Research*, **2019**, 101, 200-219	4.6	9
49	A worst-case analysis for the split delivery vehicle routing problem with minimum delivery amounts. *Optimization Letters*, **2013**, 7, 1597-1609	1.1	9
48	A divide-and-conquer local search heuristic for data visualization. *Computers and Operations Research*, **2006**, 33, 3070-3087	4.6	9
47	Impact of Health Policy Changes on Emergency Medicine in Maryland Stratified by Socioeconomic Status. *Western Journal of Emergency Medicine*, **2017**, 18, 356-365	3.3	7
46	The downhill plow problem with multiple plows. *Journal of the Operational Research Society*, **2014**, 65, 1465-1474	2	7
45	Ranking US Army Generals of the 20th Century: A Group Decision-Making Application of the Analytic Hierarchy Process. *Interfaces*, **2007**, 37, 163-175	0.7	7
44	A Steiner-Zone Heuristic for Solving the Close-Enough Traveling Salesman Problem		7
43	A worst-case analysis for the split delivery capacitated team orienteering problem with minimum delivery amounts. *Optimization Letters*, **2014**, 8, 2349-2356	1.1	6
42	The impact of electronic health record implementation on emergency physician efficiency and patient throughput. *Healthcare*, **2014**, 2, 201-4	1.8	6
41	Aesthetic considerations for the min-max K-Windy Rural Postman Problem. *Networks*, **2017**, 70, 216-232	1.6	6
40	Chapter 14: Vehicle Routing Applications in Disaster Relief **2014**, 409-436		6
39	The Label-Constrained Minimum Spanning Tree Problem. *Operations Research/ Computer Science Interfaces Series*, **2008**, 39-58	0.3	6
38	Variable neighborhood search for the cost constrained minimum label spanning tree and label constrained minimum spanning tree problems. *Computers and Operations Research*, **2010**, 37, 1952-1964	4.6	5
37	Recent Developments in Modeling and Solving the Split Delivery Vehicle Routing Problem **2008**, 170-180		5
36	The Bin Packing Problem with Item Fragmentation:A worst-case analysis. *Discrete Applied Mathematics*, **2019**, 261, 63-77	1	5
35	The orienteering problem **1987**, 34, 307		5
34	Operations research models and methods in the screening, detection, and treatment of prostate cancer: A categorized, annotated review. *Operations Research for Health Care*, **2016**, 8, 9-21	1.8	4
33	Predicting prostate cancer risk using magnetic resonance imaging data. *Information Systems and E-Business Management*, **2015**, 13, 599-608	2.6	4

32	A two-stage solution approach for the Directed Rural Postman Problem with Turn Penalties. *European Journal of Operational Research*, **2019**, 272, 754-765	5.6	4
31	A dynamic patient network model of hospital-acquired infections **2010**,		4
30	Exploring the effects of network structure and healthcare worker behavior on the transmission of hospital-acquired infections. *IIE Transactions on Healthcare Systems Engineering*, **2012**, 2, 259-273		4
29	Voice Interface Technology Adoption by Patients With Heart Failure: Pilot Comparison Study. *JMIR MHealth and UHealth*, **2021**, 9, e24646	5.5	4
28	Multi-period street scheduling and sweeping. *International Journal of Metaheuristics*, **2014**, 3, 21	0.8	3
27	Intelligent selection of frequent emergency department patients for case management: A machine learning framework based on claims data. *IISE Transactions on Healthcare Systems Engineering*, **2017**, 7, 130-143	1.3	3
26	Early detection of bioterrorism: Monitoring disease using an agent-based model **2014**,		3
25	An empirical analysis of the effect of residents on emergency department treatment times. *IIE Transactions on Healthcare Systems Engineering*, **2013**, 3, 171-180		3
24	An application of factorial design to compare the relative effectiveness of hospital infection control measures **2011**,		3
23	A Flow Formulation for the Close-Enough Arc Routing Problem. *Springer Proceedings in Mathematics and Statistics*, **2017**, 539-546	0.2	3
22	Computational Comparison of Metaheuristics. *Profiles in Operations Research*, **2019**, 581-604	1	3
21	An Open-Source Desktop Application for Generating Arc-Routing Benchmark Instances. *INFORMS Journal on Computing*, **2018**, 30, 361-370	2.4	3
20	Lognormal-based mixture models for robust fitting of hospital length of stay distributions. *Operations Research for Health Care*, **2019**, 22, 100184	1.8	2
19	OAR Lib: an open source arc routing library. *Mathematical Programming Computation*, **2019**, 11, 587-629	7.8	2
18	A hybrid heuristic procedure for the Windy Rural Postman Problem with Zigzag Time Windows. *Computers and Operations Research*, **2017**, 88, 247-257	4.6	2
17	Optimizing throughput of a multi-room proton therapy treatment center via simulation **2013**,		2
16	Heuristic Search for Network Design **2005**, 1-1-1-46		2
15	An Adaptive Heuristic Approach to Compute Upper and Lower Bounds for The Close-Enough Traveling Salesman Problem. *INFORMS Journal on Computing*, **2020**,	2.4	2

14	Impact of Global Budget Revenue Policy on Emergency Department Efficiency in the State of Maryland. *Western Journal of Emergency Medicine*, **2019**, 20, 885-892	3.3	2
13	The impact of the residency teaching model on the efficiency of the emergency department at an academic center. *Socio-Economic Planning Sciences*, **2013**, 47, 183-190	3.7	1
12	The multivisit drone routing problem with edge launches: An iterative approach with discrete and continuous improvements. *Networks*,	1.6	1
11	A continuous-time Markov model for estimating readmission risk for hospital inpatients. *Journal of Applied Statistics*, **2021**, 48, 41-60	1	1
10	Evaluating preferences for colorectal cancer screening in individuals under age 50 using the Analytic Hierarchy Process. *BMC Health Services Research*, **2021**, 21, 754	2.9	1
9	Modeling and Solving the Intersection Inspection Rural Postman Problem. *INFORMS Journal on Computing*, **2021**, 33, 1245-1257	2.4	1
8	A Weight Annealing Algorithm for Solving Two-dimensional Bin Packing Problems **2009**, 121-146		1
7	Estimating the Tour Length for the Close Enough Traveling Salesman Problem. *Algorithms*, **2021**, 14, 123	1.8	0
6	Data-driven optimization and statistical modeling to improve meter reading for utility companies. *Computers and Operations Research*, **2022**, 105844	4.6	0
5	An Operational Analysis Of Shell Planting Strategies For Improving The Survival Of Oyster Larvae In The Chesapeake Bay. *Infor*, **1996**, 34, 181-196	0.5	
4	Site Location Applications. *American Journal of Mathematical and Management Sciences*, **1992**, 12, 1-2	0.6	
3	Investigating cascading events for emergency departments in Baltimore City using a two-state Markov model. *Operations Research for Health Care*, **2021**, 31, 100324	1.8	
2	The power of linear programming: some surprising and unexpected LPs. *4or*, **2021**, 19, 15-40	1.4	
1	A fresh look at the Traveling Salesman Problem with a Center. *Computers and Operations Research*, **2022**, 143, 105748	4.6	