Bruce L Golden

List of Publications by Year
in descending order

122 papers	6,943 citations	81900 39 h-index	64796 79 g-index
126 all docs	126 docs citations	126 times ranked	4027 citing authors

#	Article	IF	Citations
1	Using regression models to understand the impact of route-length variability in practical vehicle routing. Optimization Letters, 2023, 17, 163-175.	1.6	3
2	The multivisit drone routing problem with edge launches: An iterative approach with discrete and continuous improvements. Networks, 2022, 80, 193-215.	2.7	18
3	A fresh look at the Traveling Salesman Problem with a Center. Computers and Operations Research, 2022, 143, 105748.	4.0	1
4	Data-driven optimization and statistical modeling to improve meter reading for utility companies. Computers and Operations Research, 2022, , 105844.	4.0	1
5	Editorial: 2021 <scp>Gloverâ€Klingman</scp> Prize Winner. Networks, 2022, 80, 151-151.	2.7	0
6	The power of linear programming: some surprising and unexpected LPs. 4or, 2021, 19, 15-40.	1.6	1
7	A continuous-time Markov model for estimating readmission risk for hospital inpatients. Journal of Applied Statistics, 2021, 48, 41-60.	1.3	1
8	Estimating the Tour Length for the Close Enough Traveling Salesman Problem. Algorithms, 2021, 14, 123.	2.1	3
9	Voice Interface Technology Adoption by Patients With Heart Failure: Pilot Comparison Study. JMIR MHealth and UHealth, 2021, 9, e24646.	3.7	21
10	Evaluating preferences for colorectal cancer screening in individuals under age 50 using the Analytic Hierarchy Process. BMC Health Services Research, 2021, 21, 754.	2.2	5
11	Modeling and Solving the Intersection Inspection Rural Postman Problem. INFORMS Journal on Computing, 2021, 33, 1245-1257.	1.7	1
12	Investigating cascading events for emergency departments in Baltimore City using a two-state Markov model. Operations Research for Health Care, 2021, 31, 100324.	1.2	0
13	Multi-visit drone routing problem. Computers and Operations Research, 2020, 113, 104802.	4.0	130
14	The Mothership and Drone Routing Problem. INFORMS Journal on Computing, 2020, 32, 249-262.	1.7	59
15	An Adaptive Heuristic Approach to Compute Upper and Lower Bounds for The Close-Enough Traveling Salesman Problem. INFORMS Journal on Computing, 2020, , .	1.7	2
16	A Steiner Zone Variable Neighborhood Search Heuristic for the Close-Enough Traveling Salesman Problem. Computers and Operations Research, 2019, 101, 200-219.	4.0	19
17	A two-stage solution approach for the Directed Rural Postman Problem with Turn Penalties. European Journal of Operational Research, 2019, 272, 754-765.	5.7	7
18	Experimental Graph Theory. Math Horizons, 2019, 27, 10-13.	0.0	0

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19	A Branch-and-Bound Approach to the Traveling Salesman Problem with a Drone. INFORMS Journal on Computing, 2019, 31, 335-346.	1.7	135
20	Lognormal-based mixture models for robust fitting of hospital length of stay distributions. Operations Research for Health Care, 2019, 22, 100184.	1.2	6
21	OAR Lib: an open source arc routing library. Mathematical Programming Computation, 2019, 11, 587-629.	4.8	2
22	Impact of Global Budget Revenue Policy on Emergency Department Efficiency in the State of Maryland. Western Journal of Emergency Medicine, 2019, 20, 885-992.	1.1	5
23	The Bin Packing Problem with Item Fragmentation:A worst-case analysis. Discrete Applied Mathematics, 2019, 261, 63-77.	0.9	9
24	Computational Comparison of Metaheuristics. Profiles in Operations Research, 2019, , 581-604.	0.4	6
25	Optimization approaches for civil applications of unmanned aerial vehicles (UAVs) or aerial drones: A survey. Networks, 2018, 72, 411-458.	2.7	568
26	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.	2.7	39
27	An Open-Source Desktop Application for Generating Arc-Routing Benchmark Instances. INFORMS Journal on Computing, 2018, 30, 361-370.	1.7	7
28	The vehicle routing problem with drones: several worst-case results. Optimization Letters, 2017, 11, 679-697.	1.6	319
29	A novel approach to solve the split delivery vehicle routing problem. International Transactions in Operational Research, 2017, 24, 27-41.	2.7	35
30	Partitioning a street network into compact, balanced, and visually appealing routes. Networks, 2017, 69, 290-303.	2.7	16
31	Carousel greedy: A generalized greedy algorithm with applications in optimization. Computers and Operations Research, 2017, 85, 97-112.	4.0	53
32	The vehicle routing problem with drones: Extended models and connections. Networks, 2017, 70, 34-43.	2.7	202
33	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.	1.7	6
34	A hybrid heuristic procedure for the Windy Rural Postman Problem with Zigzag Time Windows. Computers and Operations Research, 2017, 88, 247-257.	4.0	2
35	Aesthetic considerations for the minâ€max Kâ€Windy Rural Postman Problem. Networks, 2017, 70, 216-232.	2.7	8
36	The windy rural postman problem with a time-dependent zigzag option. European Journal of Operational Research, 2017, 258, 1131-1142.	5.7	12

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37	Impact of Health Policy Changes on Emergency Medicine in Maryland Stratified by Socioeconomic Status. Western Journal of Emergency Medicine, 2017, 18, 356-365.	1.1	10
38	A Flow Formulation for the Close-Enough Arc Routing Problem. Springer Proceedings in Mathematics and Statistics, 2017, , 539-546.	0.2	3
39	The minâ€“max split delivery multi-depot vehicle routing problem with minimum service time requirement. Computers and Operations Research, 2016, 71, 110-126.	4.0	23
40	Drivers of ED efficiency: a statistical and cluster analysis of volume, staffing, and operations. American Journal of Emergency Medicine, 2016, 34, 155-161.	1.6	19
41	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.	1.2	4
42	The min-max multi-depot vehicle routing problem: heuristics and computational results. Journal of the Operational Research Society, 2015, 66, 1430-1441.	3.4	17
43	Predicting prostate cancer risk using magnetic resonance imaging data. Information Systems and E-Business Management, 2015, 13, 599-608.	3.7	7
44	Minâ€“Max vs. Minâ€“Sum Vehicle Routing: A worst-case analysis. European Journal of Operational Research, 2015, 240, 372-381.	5.7	34
45	Early detection of bioterrorism: Monitoring disease using an agent-based model. , 2014, , .		4
46	Chapter 14: Vehicle Routing Applications in Disaster Relief. , 2014, , 409-436.		11
47	Vehicle routing problems in which consistency considerations are important: A survey. Networks, 2014, 64, 192-213.	2.7	88
48	A worst-case analysis for the split delivery capacitated team orienteering problem with minimum delivery amounts. Optimization Letters, 2014, 8, 2349-2356.	1.6	8
49	The impact of electronic health record implementation on emergency physician efficiency and patient throughput. Healthcare, 2014, 2, 201-204.	1.3	10
50	The downhill plow problem with multiple plows. Journal of the Operational Research Society, 2014, 65, 1465-1474.	3.4	10
51	Multi-period street scheduling and sweeping. International Journal of Metaheuristics, 2014, 3, 21.	0.1	5
52	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.	3.8	27
53	A worst-case analysis for the split delivery vehicle routing problem with minimum delivery amounts. Optimization Letters, 2013, 7, 1597-1609.	1.6	10
54	The hierarchical traveling salesman problem. Optimization Letters, 2013, 7, 1517-1524.	1.6	20

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55	Plowing with precedence: A variant of the windy postman problem. Computers and Operations Research, 2013, 40, 1047-1059.	4.0	27
56	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.	5.0	1
57	Applications of Agent-Based Modeling and Simulation to Healthcare Operations Management. Profiles in Operations Research, 2013, , 45-74.	0.4	24
58	Optimizing throughput of a multi-room proton therapy treatment center via simulation. , 2013, , .		3
59	An empirical analysis of the effect of residents on emergency department treatment times. IIE Transactions on Healthcare Systems Engineering, 2013, 3, 171-180.	0.8	4
60	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.	0.8	7
61	The Generalized Covering Salesman Problem. INFORMS Journal on Computing, 2012, 24, 534-553.	1.7	65
62	The impact of hospital utilization on patient readmission rate. Health Care Management Science, 2012, 15, 29-36.	2.6	39
63	An application of factorial design to compare the relative effectiveness of hospital infection control measures. , 2011, , .		6
64	A Parallel Algorithm for the Vehicle Routing Problem. INFORMS Journal on Computing, 2011, 23, 315-330.	1.7	58
65	The period vehicle routing problem: New heuristics and real-world variants. Transportation Research, Part E: Logistics and Transportation Review, 2011, 47, 648-668.	7.4	51
66	Reducing Boarding in a Postâ€Anesthesia Care Unit. Production and Operations Management, 2011, 20, 431-441.	3.8	40
67	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.	6.3	78
68	Examining the discharge practices of surgeons at a large medical center. Health Care Management Science, 2011, 14, 338-347.	2.6	50
69	A library of local search heuristics for the vehicle routing problem. Mathematical Programming Computation, 2010, 2, 79-101.	4.8	125
70	The effective application of a new approach toÂtheÂgeneralized orienteering problem. Journal of Heuristics, 2010, 16, 393-415.	1.4	23
71	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.	4.0	11
72	A dynamic patient network model of hospital-acquired infections. , 2010, , .		6

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73	The split delivery vehicle routing problem with minimum delivery amounts. Transportation Research, Part E: Logistics and Transportation Review, 2010, 46, 612-626.	7.4	53
74	MRSA Transmission Reduction Using Agent-Based Modeling and Simulation. INFORMS Journal on Computing, 2010, 22, 635-646.	1.7	35
75	Comparison of Metaheuristics. Profiles in Operations Research, 2010, , 625-640.	0.4	41
76	The Consistent Vehicle Routing Problem. Manufacturing and Service Operations Management, 2009, 11, 630-643.	3.7	161
77	The balanced billing cycle vehicle routing problem. Networks, 2009, 54, 243-254.	2.7	12
78	The prize-collecting generalized minimum spanning tree problem. Journal of Heuristics, 2008, 14, 69-93.	1.4	17
79	Solving the one-dimensional bin packing problem with a weight annealing heuristic. Computers and Operations Research, 2008, 35, 2283-2291.	4.0	61
80	Using a Genetic Algorithm to Solve the Generalized Orienteering Problem. Operations Research/ Computer Science Interfaces Series, 2008, , 263-274.	0.3	27
81	The Label-Constrained Minimum Spanning Tree Problem. Operations Research/ Computer Science Interfaces Series, 2008, , 39-58.	0.3	6
82	Ranking US Army Generals of the 20th Century: A Group Decision-Making Application of the Analytic Hierarchy Process. Interfaces, 2007, 37, 163-175.	1.5	11
83	The Generalized Traveling Salesman Problem: A New Genetic Algorithm Approach. , 2007, , 165-181.		27
84	The split delivery vehicle routing problem: Applications, algorithms, test problems, and computational results. Networks, 2007, 49, 318-329.	2.7	87
85	A record-to-record travel algorithm for solving the heterogeneous fleet vehicle routing problem. Computers and Operations Research, 2007, 34, 2734-2742.	4.0	158
86	The open vehicle routing problem: Algorithms, large-scale test problems, and computational results. Computers and Operations Research, 2007, 34, 2918-2930.	4.0	198
87	The Colorful Traveling Salesman Problem. , 2007, , 115-123.		20
88	Improved Heuristics for the Minimum Label Spanning Tree Problem. IEEE Transactions on Evolutionary Computation, 2006, 10, 700-703.	10.0	29
89	A divide-and-conquer local search heuristic for data visualization. Computers and Operations Research, 2006, 33, 3070-3087.	4.0	14
90	The Multilevel Capacitated Minimum Spanning Tree Problem. INFORMS Journal on Computing, 2006, 18, 348-365.	1.7	13

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91	Worst-case behavior of the MVCA heuristic for the minimum labeling spanning tree problem. Operations Research Letters, 2005, 33, 77-80.	0.7	37
92	Linear programming models for estimating weights in the analytic hierarchy process. Computers and Operations Research, 2005, 32, 2235-2254.	4.0	125
93	Very large-scale vehicle routing: new test problems, algorithms, and results. Computers and Operations Research, 2005, 32, 1165-1179.	4.0	207
94	Heuristic Search for Network Design. , 2005, , 1-1-1-46.		4
95	Solving the Time Dependent Traveling Salesman Problem. , 2005, , 163-182.		12
96	Heuristic Search for the Generalized Minimum Spanning Tree Problem. INFORMS Journal on Computing, 2005, 17, 290-304.	1.7	42
97	Visualizing group decisions in the analytic hierarchy process. Computers and Operations Research, 2003, 30, 1435-1445.	4.0	82
98	A Genetic Algorithm-Based Approach for Building Accurate Decision Trees. INFORMS Journal on Computing, 2003, 15, 3-22.	1.7	45
99	A visualization model based on adjacency data. Decision Support Systems, 2002, 33, 349-362.	5.9	21
100	Using Experimental Design to Find Effective Parameter Settings for Heuristics. Journal of Heuristics, 2001, 7, 77-97.	1.4	181
101	A Computational Study Of A New Heuristic For The Site-Dependent Vehicle Routing Problem. Infor, 1999, 37, 319-336.	0.6	35
102	The Impact of Metaheuristics on Solving the Vehicle Routing Problem: Algorithms, Problem Sets, and Computational Results. , 1998, , 33-56.		194
103	An Operational Analysis Of Shell Planting Strategies For Improving The Survival Of Oyster Larvae In The Chesapeake Bay. Infor, 1996, 34, 181-196.	0.6	0
104	A fast and effective heuristic for the orienteering problem. European Journal of Operational Research, 1996, 88, 475-489.	5.7	275
105	An improved heuristic for the period vehicle routing problem. Networks, 1995, 26, 25-44.	2.7	116
106	Estimating the length of the optimal TSP tour: An empirical study using regression and neural networks. Computers and Operations Research, 1995, 22, 1039-1046.	4.0	51
107	Large-scale controlled rounding using tabu search with strategic oscillation. Annals of Operations Research, 1993, 41, 69-84.	4.1	38
108	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.	0.9	87

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109	Site Location Applications. American Journal of Mathematical and Management Sciences, 1992, 12, 1-2.	0.9	2
110	Vehicle Routing by Land, Sea, and Air. Interfaces, 1992, 22, 1-3.	1.5	39
111	Using Simulated Annealing to Solve Controlled Rounding Problems. ORSA Journal on Computing, 1990, 2, 174-185.	1.7	20
112	OR Practiceâ€"Computerized Vehicle Routing in the Soft Drink Industry. Operations Research, 1987, 35, 6-17.	1.9	98
113	The orienteering problem. Naval Research Logistics, 1987, 34, 307-318.	2.2	576
114	Transforming arc routing into node routing problems. Computers and Operations Research, 1987, 14, 285-288.	4.0	89
115	The orienteering problem. , 1987, 34, 307.		5
116	Using simulated annealing to solve routing and location problems. Naval Research Logistics Quarterly, 1986, 33, 261-279.	0.4	155
117	Vehicle Routing with Time-Window Constraints. American Journal of Mathematical and Management Sciences, 1986, 6, 251-260.	0.9	17
118	A new heuristic for determining fleet size and composition. Mathematical Programming Studies, 1986, , 233-236.	0.8	33
119	The fleet size and mix vehicle routing problem. Computers and Operations Research, 1984, 11, 49-66.	4.0	385
120	Classification in vehicle routing and scheduling. Networks, 1981, 11, 97-108.	2.7	264
121	Interval estimation of a global optimum for large combinatorial problems. Naval Research Logistics Quarterly, 1979, 26, 69-77.	0.4	86
122	A Steiner-Zone Heuristic for Solving the Close-Enough Traveling Salesman Problem. , 0, , .		12