Karl F Doerner

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.

110 4,941 papers citations

36 h-index 69 g-index

118 ext. papers

5,644 ext. citations

avg, IF

2.8

5.83 L-index

#	Paper	IF	Citations
110	A survey on pickup and delivery problems. <i>Journal Fil Betriebswirtschaft</i> , 2008 , 58, 21-51		383
109	A survey on pickup and delivery problems. <i>Journal Fill Betriebswirtschaft</i> , 2008 , 58, 81-117		375
108	Pareto Ant Colony Optimization: A Metaheuristic Approach to Multiobjective Portfolio Selection. <i>Annals of Operations Research</i> , 2004 , 131, 79-99	3.2	281
107	D-Ants: Savings Based Ants divide and conquer the vehicle routing problem. <i>Computers and Operations Research</i> , 2004 , 31, 563-591	4.6	261
106	A variable neighborhood search heuristic for periodic routing problems. <i>European Journal of Operational Research</i> , 2009 , 195, 791-802	5.6	196
105	Ambulance location and relocation problems with time-dependent travel times. <i>European Journal of Operational Research</i> , 2010 , 207, 1293-1303	5.6	167
104	A Variable Neighborhood Search for the Multi Depot Vehicle Routing Problem with Time Windows. <i>Journal of Heuristics</i> , 2004 , 10, 613-627	1.9	161
103	Ant colony optimization for the two-dimensional loading vehicle routing problem. <i>Computers and Operations Research</i> , 2009 , 36, 655-673	4.6	145
102	Heuristics for the multi-period orienteering problem with multiple time windows. <i>Computers and Operations Research</i> , 2010 , 37, 351-367	4.6	131
101	Variable neighborhood search for the dial-a-ride problem. <i>Computers and Operations Research</i> , 2010 , 37, 1129-1138	4.6	128
100	Metaheuristics for the bi-objective orienteering problem. Swarm Intelligence, 2009, 3, 179-201	3	117
99	Pareto ant colony optimization with ILP preprocessing in multiobjective project portfolio selection. <i>European Journal of Operational Research</i> , 2006 , 171, 830-841	5.6	116
98	Delivery strategies for blood products supplies. <i>OR Spectrum</i> , 2009 , 31, 707-725	1.9	109
97	Metaheuristics for vehicle routing problems with three-dimensional loading constraints. <i>European Journal of Operational Research</i> , 2010 , 201, 751-759	5.6	109
96	Adaptive large neighborhood search for service technician routing and scheduling problems. <i>Journal of Scheduling</i> , 2012 , 15, 579-600	1.6	97
95	Multicriteria tour planning for mobile healthcare facilities in a developing country. <i>European Journal of Operational Research</i> , 2007 , 179, 1078-1096	5.6	96
94	Multi-criteria location planning for public facilities in tsunami-prone coastal areas. <i>OR Spectrum</i> , 2009 , 31, 651-678	1.9	91

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93	Metaheuristics for the dynamic stochastic dial-a-ride problem with expected return transports. <i>Computers and Operations Research</i> , 2011 , 38, 1719-1730	4.6	87	
92	A variable neighborhood search for the capacitated arc routing problem with intermediate facilities. <i>Journal of Heuristics</i> , 2008 , 14, 405-423	1.9	85	
91	Vendor managed inventory for environments with stochastic product usage. <i>European Journal of Operational Research</i> , 2010 , 202, 686-695	5.6	82	
90	Risk approaches for delivering disaster relief supplies. <i>OR Spectrum</i> , 2011 , 33, 543-569	1.9	77	
89	Determining location and size of medical departments in a hospital network: a multiobjective decision support approach. <i>Health Care Management Science</i> , 2004 , 7, 63-71	4	74	
88	Rich routing problems arising in supply chain management. <i>European Journal of Operational Research</i> , 2013 , 224, 435-448	5.6	73	
87	Models and algorithms for the heterogeneous dial-a-ride problem with driver-related constraints. <i>OR Spectrum</i> , 2012 , 34, 593-633	1.9	64	
86	Metaheuristics for the Order Batching Problem in Manual Order Picking Systems. <i>Business Research</i> , 2010 , 3, 82-105	3.8	64	
85	Integrating stochastic time-dependent travel speed in solution methods for the dynamic dial-a-ride problem. <i>European Journal of Operational Research</i> , 2014 , 238, 18-30	5.6	62	
84	A heuristic solution method for node routing based solid waste collection problems. <i>Journal of Heuristics</i> , 2013 , 19, 129-156	1.9	62	
83	A heuristic two-phase solution approach for the multi-objective dial-a-ride problem. <i>Networks</i> , 2009 , 54, 227-242	1.6	58	
82	Exact and heuristic algorithms for the vehicle routing problem with multiple interdependent time windows. <i>Computers and Operations Research</i> , 2008 , 35, 3034-3048	4.6	55	
81	Models and Algorithms for the Integrated Planning of Bin Allocation and Vehicle Routing in Solid Waste Management. <i>Transportation Science</i> , 2014 , 48, 103-120	4.4	54	
80	Metaheuristics for the vehicle routing problem with loading constraints. <i>Networks</i> , 2007 , 49, 294-307	1.6	52	
79	A MAX-MIN ant system for unconstrained multi-level lot-sizing problems. <i>Computers and Operations Research</i> , 2007 , 34, 2533-2552	4.6	51	
78	Hybridization of very large neighborhood search for ready-mixed concrete delivery problems. <i>Computers and Operations Research</i> , 2010 , 37, 559-574	4.6	48	
77	A Hybrid Solution Approach for Ready-Mixed Concrete Delivery. <i>Transportation Science</i> , 2009 , 43, 70-85	4.4	41	
76	A Cooperative and Adaptive Variable Neighborhood Search for the Multi Depot Vehicle Routing Problem with Time Windows. <i>Business Research</i> , 2008 , 1, 207-218	3.8	38	

75	Variable neighborhood search for the stochastic and dynamic vehicle routing problem. <i>Annals of Operations Research</i> , 2016 , 236, 425-461	3.2	37
74	The school bus routing and scheduling problem with transfers. <i>Networks</i> , 2015 , 65, 180-203	1.6	36
73	PARALLEL COOPERATIVE SAVINGS BASED ANT COLONY OPTIMIZATION [MULTIPLE SEARCH AND DECOMPOSITION APPROACHES. <i>Parallel Processing Letters</i> , 2006 , 16, 351-369	0.3	36
72	Heuristic and exact algorithms for the multi-pile vehicle routing problem. <i>OR Spectrum</i> , 2011 , 33, 931-	. 95⊋ .9	35
71	Water distribution in disaster relief. <i>International Journal of Physical Distribution and Logistics Management</i> , 2010 , 40, 693-708	5.2	34
70	A Bi-objective Metaheuristic for Disaster Relief Operation Planning. <i>Studies in Computational Intelligence</i> , 2010 , 167-187	0.8	34
69	Survey: Matheuristics for Rich Vehicle Routing Problems. Lecture Notes in Computer Science, 2010 , 206	5-2 21 9	29
68	Using Traffic Information for Time-Dependent Vehicle Routing. <i>Procedia, Social and Behavioral Sciences</i> , 2012 , 39, 217-229		27
67	Parallel Ant Systems for the Capacitated Vehicle Routing Problem. <i>Lecture Notes in Computer Science</i> , 2004 , 72-83	0.9	26
66	Combining population-based and exact methods for multi-level capacitated lot-sizing problems. <i>International Journal of Production Research</i> , 2006 , 44, 4755-4771	7.8	25
65	Insertion Based Ants for Vehicle Routing Problems with Backhauls and Time Windows. <i>Lecture Notes in Computer Science</i> , 2002 , 135-148	0.9	24
64	Ambulance location and relocation models in a crisis. <i>Central European Journal of Operations Research</i> , 2016 , 24, 1-27	2.2	23
63	Scheduling periodic customer visits for a traveling salesperson. <i>European Journal of Operational Research</i> , 2007 , 179, 823-837	5.6	23
62	Nature-inspired metaheuristics for multiobjective activity crashing. <i>Omega</i> , 2008 , 36, 1019-1037	7.2	21
61	SavingsAnts for the Vehicle Routing Problem. Lecture Notes in Computer Science, 2002, 11-20	0.9	21
60	POPMUSIC for a real-world large-scale vehicle routing problem with time windows. <i>Journal of the Operational Research Society</i> , 2009 , 60, 934-943	2	19
59	Examination and Operating Room Scheduling Including Optimization of Intrahospital Routing. <i>Transportation Science</i> , 2014 , 48, 59-77	4.4	17
58	Extracting Test Sequences from a Markov Software Usage Model by ACO. <i>Lecture Notes in Computer Science</i> , 2003 , 2465-2476	0.9	17

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57	Stochastic project management: multiple projects with multi-skilled human resources. <i>Journal of Scheduling</i> , 2019 , 22, 271-288	1.6	16
56	Solving routing problems with pairwise synchronization constraints. <i>Central European Journal of Operations Research</i> , 2018 , 26, 443-464	2.2	16
55	Chapter 7: Pickup-and-Delivery Problems for People Transportation 2014 , 193-212		16
54	A heuristic algorithm for the free newspaper delivery problem. <i>European Journal of Operational Research</i> , 2013 , 230, 245-257	5.6	16
53	Solving a Bi-objective Flowshop Scheduling Problem by Pareto-Ant Colony Optimization. <i>Lecture Notes in Computer Science</i> , 2006 , 294-305	0.9	15
52	Analyzing a Unified Ant System for the VRP and Some of Its Variants. <i>Lecture Notes in Computer Science</i> , 2003 , 300-310	0.9	15
51	Cooperative Ant Colonies for Optimizing Resource Allocation in Transportation. <i>Lecture Notes in Computer Science</i> , 2001 , 70-79	0.9	15
50	Health Care Logistics, Emergency Preparedness, and Disaster Relief: New Challenges for Routing Problems with a Focus on the Austrian Situation. <i>Operations Research/ Computer Science Interfaces Series</i> , 2008 , 527-550	0.3	14
49	Adaptive large neighborhood search for the vehicle routing problem with synchronization constraints at the delivery location. <i>Networks</i> , 2020 , 75, 64-85	1.6	14
48	Applying Ant Colony Optimization to the Capacitated Arc Routing Problem. <i>Lecture Notes in Computer Science</i> , 2004 , 420-421	0.9	13
47	A matheuristic for a multimodal long haul routing problem. <i>EURO Journal on Transportation and Logistics</i> , 2019 , 8, 397-433	2.4	13
46	A Population-Based Local Search for Solving a Bi-objective Vehicle Routing Problem. <i>Lecture Notes in Computer Science</i> , 2007 , 166-175	0.9	12
45	Special issue on ant colony optimization. Swarm Intelligence, 2009, 3, 1-2	3	11
44	Solving a Bi-objective Vehicle Routing Problem by Pareto-Ant Colony Optimization 2007 , 187-191		11
43	Disruption management for the Viennese public transport provider. <i>Public Transport</i> , 2016 , 8, 161-183	2.1	11
42	Scheduling of maintenance work of a large-scale tramway network. <i>European Journal of Operational Research</i> , 2018 , 270, 1158-1170	5.6	9
41	The vehicle routing problem with arrival time diversification on a multigraph. <i>European Journal of Operational Research</i> , 2020 , 286, 564-575	5.6	8
40	Enriched workflow modelling and Stochastic Branch-and-Bound. <i>European Journal of Operational Research</i> , 2006 , 175, 1798-1817	5.6	8

39	Representation and optimization of software usage models with non-Markovian state transitions. <i>Information and Software Technology</i> , 2000 , 42, 873-887	3.4	8
38	Local Search Guided by Path Relinking and Heuristic Bounds 2007 , 501-515		7
37	Finding the trade-off between emissions and disturbance in an urban context. <i>Flexible Services and Manufacturing Journal</i> , 2018 , 30, 554-591	1.8	7
36	The vehicle routing problem with heterogeneous locker boxes. <i>Central European Journal of Operations Research</i> , 2021 , 29, 113-142	2.2	7
35	Scheduling recurring radiotherapy appointments in an ion beam facility. <i>Journal of Scheduling</i> , 2019 , 22, 137-154	1.6	6
34	A unified framework for routing problems with a fixed fleet size. <i>International Journal of Metaheuristics</i> , 2017 , 6, 160	0.8	6
33	On Index Structures in Hybrid Metaheuristics for Routing Problems with Hard Feasibility Checks: An Application to the 2-Dimensional Loading Vehicle Routing Problem. <i>Lecture Notes in Computer Science</i> , 2010 , 160-173	0.9	6
32	A Variable Neighborhood Search Integrated in the POPMUSIC Framework for Solving Large Scale Vehicle Routing Problems. <i>Lecture Notes in Computer Science</i> , 2008 , 29-42	0.9	6
31	A machine learning approach for flow shop scheduling problems with alternative resources, sequence-dependent setup times, and blocking. <i>OR Spectrum</i> , 2019 , 41, 871-893	1.9	6
30	Multi-objective simulation optimization for complex urban mass rapid transit systems. <i>Annals of Operations Research</i> , 2019 , 305, 449	3.2	5
29	Variable Neighborhood Search for the Time-Dependent Vehicle Routing Problem with Soft Time Windows. <i>Lecture Notes in Computer Science</i> , 2011 , 61-75	0.9	5
28	Reviewer Assignment for Scientific Articles using Memetic Algorithms 2007 , 113-134		5
27	Secure and efficient routing on nodes, edges, and arcs of simple-graphs and of multi-graphs. <i>Networks</i> , 2020 , 76, 431-450	1.6	4
26	Population-based simulation optimization for urban mass rapid transit networks. <i>Flexible Services and Manufacturing Journal</i> , 2020 , 32, 767-805	1.8	4
25	Biased random-key genetic algorithm for cobot assignment in an assembly/disassembly job shop scheduling problem. <i>Procedia Computer Science</i> , 2021 , 180, 328-337	1.6	4
24	A Multi-encoded Genetic Algorithm Approach to Scheduling Recurring Radiotherapy Treatment Activities with Alternative Resources, Optional Activities, and Time Window Constraints. <i>Lecture Notes in Computer Science</i> , 2018 , 373-382	0.9	3
23	Addendum to Heuristics for the multi-period orienteering problem with multiple time windows Computers and Operations Research, 2013, 40, 1516-1519	4.6	3
22	A discrete event simulation model of the Viennese subway system for decision support and strategic planning 2016 ,		3

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21	Metaheuristic search techniques for multi-objective and stochastic problems: a history of the inventions of Walter J. Gutjahr in the past 22 years. <i>Central European Journal of Operations Research</i> , 2018 , 26, 331-356	2.2	2
20	Demand Responsive Transportation 2011 ,		2
19	Models for intra-hospital patient routing 2011,		2
18	High Performance Computing in the Optimization of Software Test Plans. <i>Optimization and Engineering</i> , 2002 , 3, 67-87	2.1	2
17	A Large Neighbourhood Search Metaheuristic for the Contagious Disease Testing Problem. <i>European Journal of Operational Research</i> , 2021 ,	5.6	2
16	Stochastic Local Search Procedures for the Probabilistic Two-Day Vehicle Routing Problem. <i>Studies in Computational Intelligence</i> , 2008 , 153-168	0.8	2
15	Heuristics for a Real-World Mail Delivery Problem. Lecture Notes in Computer Science, 2011, 481-490	0.9	2
14	Matheuristic search techniques for the consistent inventory routing problem with time windows and split deliveries. <i>Operations Research Perspectives</i> , 2020 , 7, 100152	2.1	2
13	SIMULATION-BASED HEADWAY OPTIMIZATION FOR A SUBWAY NETWORK: A PERFORMANCE COMPARISON OF POPULATION-BASED ALGORITHMS 2018 ,		2
12	VRP with Interdependent Time Windows 🖪 Case Study for the Austrian Red Cross Blood Program 2003 , 156-161		1
11	Hybrid Metaheuristics for Project Scheduling and Staffing, Considering Project Interruptions and Labor Contracts. <i>Dynamic Modeling and Econometrics in Economics and Finance</i> , 2016 , 349-377		1
10	Preface: The modeling and simulation of complex systems. <i>Annals of Operations Research</i> , 2021 , 305, 423-424	3.2	1
9	Consistent Inventory Routing with Split Deliveries. <i>Operations Research Proceedings: Papers of the Annual Meeting = Vortr</i> g <i>e Der Jahrestagung / DGOR</i> , 2018, 395-401	0.1	O
8	The pickup and delivery problem with alternative locations and overlapping time windows. <i>Computers and Operations Research</i> , 2022 , 143, 105758	4.6	О
7	Twenty Years of Vehicle Routing in Vienna. <i>Dynamic Modeling and Econometrics in Economics and Finance</i> , 2016 , 491-520		
6	Comments on: Disruption management in vehicle routing and scheduling for road freight transport: a review. <i>Top</i> , 2018 , 26, 21-24	1.3	
5	. Computers and Operations Research, 2008, 35, 2709-2710	4.6	
4	Solving a Rich Intra-facility Steel Slab Routing Problem. <i>Operations Research Proceedings: Papers of the Annual Meeting = Vortr</i> ge Der Jahrestagung / DGOR, 2018 , 313-319	0.1	

3	Stacking and transporting steel slabs using high-capacity vehicles. <i>Procedia Computer Science</i> , 2021 , 180, 843-851	1.6
2	Solving a Multi-objective Vehicle Routing Problem with Synchronization Constraints. <i>Lecture Notes in Computer Science</i> , 2021 , 532-546	0.9
1	A hybrid metaheuristic solution approach for the cobot assignment and job shop scheduling problem. <i>Journal of Industrial Information Integration</i> , 2022 , 28, 100350	7