Kenneth SÃ¶rensen

List of Publications by Year
in descending order

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123 papers	4,118 citations	117571 34 h-index	143943 57 g-index
133 all docs	133 docs citations	133 times ranked	3197 citing authors

#	Article	IF	Citations
1	Metaheuristicsâ€"the metaphor exposed. International Transactions in Operational Research, 2015, 22, 3-18.	1.8	694
2	A metaheuristic for the school bus routing problem with bus stop selection. European Journal of Operational Research, 2013, 229, 518-528.	3.5	128
3	Horizontal logistics collaboration: decreasing costs through flexibility and an adequate cost allocation strategy. International Journal of Logistics Research and Applications, 2014, 17, 339-355.	5.6	108
4	Metaheuristics. , 2013, , 960-970.		108
5	MAPM: memetic algorithms with population management. Computers and Operations Research, 2006, 33, 1214-1225.	2.4	103
6	Home care service planning. The case of Landelijke Thuiszorg. European Journal of Operational Research, 2015, 243, 292-301.	3.5	97
7	Network repair crew scheduling and routing for emergency relief distribution problem. European Journal of Operational Research, 2016, 248, 272-285.	3.5	95
8	Ambulance routing for disaster response with patient groups. Computers and Operations Research, 2015, 56, 120-133.	2.4	92
9	Efficient GRASP+VND and GRASP+VNS metaheuristics for the traveling repairman problem. 4or, 2011, 9, 189-209.	1.0	82
10	A fast solution method for the time-dependent orienteering problem. European Journal of Operational Research, 2014, 236, 419-432.	3.5	74
11	Efficient metaheuristics to solve the intermodal terminal location problem. Computers and Operations Research, 2012, 39, 2079-2090.	2.4	71
12	A fast two-level variable neighborhood search for the clustered vehicle routing problem. Computers and Operations Research, 2017, 83, 78-94.	2.4	70
13	A decision model to allocate protective safety barriers and mitigate domino effects. Reliability Engineering and System Safety, 2015, 143, 44-52.	5.1	65
14	Efficiently solving very large-scale routing problems. Computers and Operations Research, 2019, 107, 32-42.	2.4	63
15	An iterated local search algorithm for the vehicle routing problem with backhauls. European Journal of Operational Research, 2014, 237, 454-464.	3.5	61
16	Optimisation of gravity-fed water distribution network design: A critical review. European Journal of Operational Research, 2013, 228, 1-10.	3.5	60
17	A History of Metaheuristics. , 2018, , 791-808.		57
18	Knowledge-guided local search for the vehicle routing problem. Computers and Operations Research, 2019, 105, 32-46.	2.4	57

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19	Distance measures based on the edit distance for permutation-type representations. Journal of Heuristics, 2007, 13, 35-47.	1.1	54
20	The selective vehicle routing problem in a collaborative environment. European Journal of Operational Research, 2016, 250, 400-411.	3.5	54
21	A GRASP metaheuristic to improve accessibility after a disaster. OR Spectrum, 2011, 33, 525-542.	2.1	53
22	What makes a VRP solution good? The generation of problem-specific knowledge for heuristics. Computers and Operations Research, 2019, 106, 280-288.	2.4	53
23	A memetic algorithm for the orienteering problem with hotel selection. European Journal of Operational Research, 2014, 237, 29-49.	3.5	52
24	Metaheuristics for the risk-constrained cash-in-transit vehicle routing problem. European Journal of Operational Research, 2015, 244, 457-470.	3.5	50
25	The travelling salesperson problem with hotel selection. Journal of the Operational Research Society, 2012, 63, 207-217.	2.1	49
26	Resilience of chemical industrial areas through attenuation-based security. Reliability Engineering and System Safety, 2014, 131, 94-101.	5.1	46
27	MISTRAL: A game-theoretical model to allocate security measures in a multi-modal chemical transportation network with adaptive adversaries. Reliability Engineering and System Safety, 2015, 138, 105-114.	5.1	46
28	Metaphor-based metaheuristics, a call for action: the elephant in the room. Swarm Intelligence, 2022, 16, 1-6.	1.3	45
29	Dance Hit Song Prediction. Journal of New Music Research, 2014, 43, 291-302.	0.6	44
30	A mathematical formulation for a school bus routing problem. , 2006, , .		43
31	Production control in a failure-prone manufacturing network using discrete event simulation and automated response surface methodology. International Journal of Advanced Manufacturing Technology, 2011, 53, 35-46.	1.5	43
32	The k-dissimilar vehicle routing problem. European Journal of Operational Research, 2015, 244, 129-140.	3.5	43
33	OR Practiceâ€"Supporting 3PL Decisions in the Automotive Industry by Generating Diverse Solutions to a Large-Scale Location-Routing Problem. Operations Research, 2009, 57, 1058-1067.	1.2	40
34	Measuring and rewarding flexibility in collaborative distribution, including two-partner coalitions. European Journal of Operational Research, 2014, 239, 157-165.	3.5	40
35	A survey on demand-responsive public bus systems. Transportation Research Part C: Emerging Technologies, 2022, 137, 103573.	3.9	39
36	Data mining with genetic algorithms on binary trees. European Journal of Operational Research, 2003, 151, 253-264.	3.5	38

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37	Integration of the cost allocation in the optimization of collaborative bundling. Transportation Research, Part E: Logistics and Transportation Review, 2014, 72, 125-143.	3.7	35
38	Multi-objective optimisation models for the travelling salesman problem with horizontal cooperation. European Journal of Operational Research, 2018, 267, 891-903.	3.5	35
39	A memetic algorithm for the travelling salesperson problem with hotel selection. Computers and Operations Research, 2013, 40, 1716-1728.	2.4	34
40	A Practical Approach for Robust and Flexible Vehicle Routing Using Metaheuristics and Monte Carlo Sampling. Mathematical Modelling and Algorithms, 2009, 8, 387-407.	0.5	33
41	Generating structured music for bagana using quality metrics based on Markov models. Expert Systems With Applications, 2015, 42, 7424-7435.	4.4	32
42	Integrating partner objectives in horizontal logistics optimisation models. Omega, 2019, 82, 1-12.	3.6	32
43	Metaheuristics â€œIn the Largeâ€• European Journal of Operational Research, 2022, 297, 393-406.	3.5	32
44	Determining collaborative profits in coalitions formed by two partners with varying characteristics. Transportation Research Part C: Emerging Technologies, 2016, 70, 171-184.	3.9	31
45	An Approach for Optimal Allocation of Safety Resources: Using the Knapsack Problem to Take Aggregated Costâ€Efficient Preventive Measures. Risk Analysis, 2013, 33, 2056-2067.	1.5	30
46	Meta-analysis of metaheuristics: Quantifying the effect of adaptiveness in adaptive large neighborhood search. European Journal of Operational Research, 2021, 292, 423-442.	3.5	30
47	A History of Metaheuristics. , 2018, , 1-18.		30
48	A large neighbourhood metaheuristic for the risk-constrained cash-in-transit vehicle routing problem. Computers and Operations Research, 2017, 78, 547-556.	2.4	29
49	Bi-objective optimization of the intermodal terminal location problem as a policy-support tool. Computers in Industry, 2013, 64, 128-135.	5.7	28
50	A genetic algorithm for robust schedules in a one-machine environment with ready times and due dates. 4or, 2004, 2, 129.	1.0	27
51	The accessibility arc upgrading problem. European Journal of Operational Research, 2013, 224, 458-465.	3.5	27
52	An iterated local search algorithm for water distribution network design optimization. Networks, 2016, 67, 187-198.	1.6	27
53	An algorithm to generate all spanning trees of a graph in order of increasing cost. Pesquisa Operacional, 2005, 25, 219-229.	0.1	25
54	Multi-objective microzone-based vehicle routing for courier companies: From tactical to operational planning. European Journal of Operational Research, 2015, 242, 222-231.	3.5	25

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55	A multi-attribute Systemic Risk Index for comparing and prioritizing chemical industrial areas. Reliability Engineering and System Safety, 2012, 98, 35-42.	5.1	24
56	HydroGen: an Artificial Water Distribution Network Generator. Water Resources Management, 2014, 28, 333-350.	1.9	24
57	A critical analysis of the â€œimproved Clarke and Wright savings algorithmâ€• International Transactions in Operational Research, 2019, 26, 54-63.	1.8	23
58	A Petri net model of a continuous flow transfer line with unreliable machines. European Journal of Operational Research, 2004, 152, 248-262.	3.5	21
59	Solving the mobile mapping van problem: A hybrid metaheuristic for capacitated arc routing with soft time windows. Computers and Operations Research, 2010, 37, 1870-1876.	2.4	20
60	Composing fifth species counterpoint music with a variable neighborhood search algorithm. Expert Systems With Applications, 2013, 40, 6427-6437.	4.4	20
61	The joint order batching and picker routing problem: Modelled and solved as a clustered vehicle routing problem. Computers and Operations Research, 2021, 129, 105168.	2.4	20
62	Composing first species counterpoint with a variable neighbourhood search algorithm. Journal of Mathematics and the Arts, 2012, 6, 169-189.	0.1	18
63	Classification and Generation of Composer-Specific Music Using Global Feature Models and Variable Neighborhood Search. Computer Music Journal, 2015, 39, 71-91.	0.3	17
64	Optimal design of large-scale screening experiments: a critical look at the coordinate-exchange algorithm. Statistics and Computing, 2016, 26, 15-28.	0.8	17
65	A biobjective decision model to increase security and reduce travel costs in the cashâ€inâ€transit sector. International Transactions in Operational Research, 2017, 24, 59-76.	1.8	17
66	Pushing frontiers in auction-based transport collaborations. Omega, 2020, 94, 102042.	3.6	17
67	â€œMultiple Neighbourhoodâ€•Search in Commercial VRP Packages: Evolving Towards Self-Adaptive Methods. Studies in Computational Intelligence, 2008, , 239-253.	0.7	17
68	Statistical analysis of distance-based path relinking for the capacitated vehicle routing problem. Computers and Operations Research, 2013, 40, 3197-3205.	2.4	16
69	A network-consistent time-dependent travel time layer for routing optimization problems. European Journal of Operational Research, 2013, 226, 395-413.	3.5	16
70	Pre-positioning of emergency supplies: does putting a price on human life help to save lives?. Annals of Operations Research, 2019, 283, 865-895.	2.6	16
71	A matheuristic for the stochastic facility location problem. Journal of Heuristics, 2021, 27, 649-694.	1.1	16
72	A large neighborhood search algorithm to optimize a demand-responsive feeder service. Transportation Research Part C: Emerging Technologies, 2021, 127, 103102.	3.9	16

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73	Route stability in vehicle routing decisions: a bi-objective approach using metaheuristics. Central European Journal of Operations Research, 2006, 14, 193-207.	1.1	15
74	A fast metaheuristic for the travelling salesperson problem with hotel selection. 4or, 2015, 13, 15-34.	1.0	15
75	A variable-neighbourhood search algorithm for finding optimal run orders in the presence of serial correlation. Journal of Statistical Planning and Inference, 2009, 139, 30-44.	0.4	14
76	A metaheuristic for a teaching assistant assignment-routing problem. Computers and Operations Research, 2012, 39, 249-258.	2.4	14
77	A variable neighborhood search algorithm to generate piano fingerings for polyphonic sheet music. International Transactions in Operational Research, 2017, 24, 509-535.	1.8	14
78	PILS: Exploring high-order neighborhoods by pattern mining and injection. Pattern Recognition, 2021, 116, 107957.	5.1	14
79	Buffer allocation and required availability in a transfer line with unreliable machines. International Journal of Production Economics, 2001, 74, 163-173.	5.1	13
80	Design optimization of air distribution systems in non-residential buildings. Energy and Buildings, 2018, 175, 48-56.	3.1	13
81	The static onâ€demand bus routing problem: large neighborhood search for a dialâ€aâ€ride problem with bus station assignment. International Transactions in Operational Research, 2022, 29, 1417-1453.	1.8	12
82	Multi-objective optimization of mobile phone keymaps for typing messages using a word list. European Journal of Operational Research, 2007, 179, 838-846.	3.5	11
83	Automated Design of Machine Learning and Search Algorithms [Guest Editorial]. IEEE Computational Intelligence Magazine, 2018, 13, 16-17.	3.4	11
84	Research trends in combinatorial optimization. International Transactions in Operational Research, 2022, 29, 667-705.	1.8	11
85	An integrated algorithm for the optimal design of stated choice experiments with partial profiles. Transportation Research Part B: Methodological, 2016, 93, 648-669.	2.8	10
86	An Iterated Local Search Algorithm for Multi-Period Water Distribution Network Design Optimization. Water (Switzerland), 2016, 8, 359.	1.2	9
87	Efficient multi-product multi-BOM batch scheduling for a petrochemical blending plant with a shared pipeline network. Computers and Chemical Engineering, 2016, 84, 493-506.	2.0	9
88	Air distribution system design optimization in non-residential buildings: Problem formulation and generation of test networks. Journal of Building Engineering, 2017, 12, 60-67.	1.6	9
89	Analysis of different cost allocation methods in a collaborative transport setting. Journal of Evidence-Based Medicine, 2014, 4, 132.	0.7	8
90	Instances for the problem of pre-positioning emergency supplies. Journal of Humanitarian Logistics and Supply Chain Management, 2019, 9, 172-195.	1.7	8

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91	Solving a real-life roll-onâ€“roll-off waste collection problem with column generation. Journal on Vehicle Routing Algorithms, 2019, 2, 41-54.	1.5	8
92	Finding Robust Solutions Using Local Search. Mathematical Modelling and Algorithms, 2004, 3, 89-103.	0.5	7
93	A progressive filtering heuristic for the location-routing problem and variants. Computers and Operations Research, 2021, 129, 105166.	2.4	7
94	Large neighborhood search for the bike request scheduling problem. International Transactions in Operational Research, 2020, 27, 2695-2714.	1.8	6
95	A Greedy Randomized Adaptive Search Procedure (GRASP) for the multi-vehicle prize collecting arc routing for connectivity problem. Computers and Operations Research, 2022, 143, 105804.	2.4	6
96	A hybridised variable neighbourhood tabu search heuristic to increase security in a utility network. Reliability Engineering and System Safety, 2016, 145, 221-230.	5.1	5
97	Editorial to the Special Cluster on Variable Neighborhood Search, Variants and Recent Applications. International Transactions in Operational Research, 2017, 24, 507-508.	1.8	5
98	Adaptive and Multilevel Metaheuristics. , 2018, , 3-21.		5
99	Gain Sharing in Horizontal Logistic Co-operation: A Case Study in the Fresh Fruit and Vegetables Sector. Contributions To Management Science, 2016, , 75-89.	0.4	5
100	FuX, an Android app that generates counterpoint. , 2013, , .		4
101	Progressive Multi-Objective Optimization. International Journal of Information Technology and Decision Making, 2014, 13, 917-936.	2.3	4
102	A multilevel evaluation method for heuristics with an application to the VRPTW. International Transactions in Operational Research, 2020, 27, 168-196.	1.8	4
103	Composer Classification Models for Music-Theory Building. , 2016, , 369-392.		4
104	Reducing Space Search in Combinatorial Optimization Using Machine Learning Tools. Lecture Notes in Computer Science, 2020, , 143-150.	1.0	4
105	Automatic Petri Net Simulation Model Generation for a Continuous Flow Transfer Line with Unreliable Machines. Quality and Reliability Engineering International, 2004, 20, 343-362.	1.4	3
106	Data for a meta-analysis of the adaptive layer in adaptive large neighborhood search. Data in Brief, 2020, 33, 106568.	0.5	3
107	A column generation algorithm for the demandâ€responsive feeder service with mandatory and optional, clustered busâ€stops. Networks, 2022, 80, 274-296.	1.6	3
108	Stimulating information sharing, collaboration and learning in operations research with libOR. International Journal on Digital Libraries, 2008, 8, 79-90.	1.1	2

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109	An upper bound on the cycle time of a stochastic marked graph using incomplete information on the transition firing time distributions. Mathematical and Computer Modelling, 2009, 49, 563-572.	2.0	2
110	Studying the influence of algorithmic parameters and instance characteristics on the performance of a multiobjective algorithm using the P<scp>romethee</scp> method. Cybernetics and Systems, 2019, 50, 444-464.	1.6	2
111	Metaheuristics for the Multimodal Optimization of Hazmat Transports. , 0, , 163-181.		2
112	Design of experiments in humanitarian logistics: facility decision making in disaster preparedness. International Transactions in Operational Research, 2023, 30, 4078-4106.	1.8	2
113	A variable neighborhood search algorithm for scheduling the hot rolling operations at a steel mill. , 2009, , .		1
114	The Mobile Mapping Van Problem: a matheuristic for capacitated arc routing with soft time windows and depot selection. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 1114-1119.	0.4	1
115	An algorithmic framework for generating optimal two-stratum experimental designs. Computational Statistics and Data Analysis, 2017, 115, 224-249.	0.7	1
116	Intelligent Systems in Managerial Decision Making. Intelligent Systems Reference Library, 2015, , 377-403.	1.0	1
117	A production-inventory system with an unreliable continuous transfer line. Journal of Systems Science and Systems Engineering, 2003, 12, 298-306.	0.8	0
118	The validity of aggregation in the study of unreliable continuous transfer lines. Journal of Statistics and Management Systems, 2005, 8, 27-37.	0.3	0
119	Production control in a network-failure prone manufacturing system with stochastic demand using improved response surface methodology. , 2010, , .		0
120	The Bike Request Scheduling Problem. Lecture Notes in Computer Science, 2015, , 294-301.	1.0	0
121	A metaheuristic for security budget allocation in utility networks. International Transactions in Operational Research, 2017, 24, 229-249.	1.8	0
122	Comments on: Shared resources in collaborative vehicle routing. Top, 2020, 28, 25-28.	1.1	0
123	An enhanced simulation-based iterated local search metaheuristic for gravity fed water distribution network design optimization. Computers and Operations Research, 2021, 135, 105429.	2.4	0