

Lars Magnus Hvattum

List of Publications by Year in descending order

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Version: 2024-02-01

78
papers

2,181
citations

236833

25
h-index

243529

44
g-index

80
all docs

80
docs citations

80
times ranked

1655
citing authors

#	ARTICLE	IF	CITATIONS
1	Using ELO ratings for match result prediction in association football. <i>International Journal of Forecasting</i> , 2010, 26, 460-470.	3.9	181
2	A three-stage stochastic facility routing model for disaster response planning. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , 2014, 62, 116-135.	3.7	161
3	Solving a Dynamic and Stochastic Vehicle Routing Problem with a Sample Scenario Hedging Heuristic. <i>Transportation Science</i> , 2006, 40, 421-438.	2.6	147
4	The robust vehicle routing problem with time windows. <i>Computers and Operations Research</i> , 2013, 40, 856-866.	2.4	139
5	Analysis of an exact algorithm for the vessel speed optimization problem. <i>Networks</i> , 2013, 62, 132-135.	1.6	84
6	A survey on maritime fleet size and mix problems. <i>European Journal of Operational Research</i> , 2014, 235, 341-349.	3.5	83
7	Using scenario trees and progressive hedging for stochastic inventory routing problems. <i>Journal of Heuristics</i> , 2009, 15, 527-557.	1.1	79
8	A decision support methodology for strategic planning in maritime transportation. <i>Omega</i> , 2010, 38, 465-474.	3.6	62
9	A branch-and-regret heuristic for stochastic and dynamic vehicle routing problems. <i>Networks</i> , 2007, 49, 330-340.	1.6	60
10	A maritime inventory routing problem with stochastic sailing and port times. <i>Computers and Operations Research</i> , 2015, 61, 18-30.	2.4	60
11	A stochastic fleet size and mix model for maintenance operations at offshore wind farms. <i>Transportation Research Part C: Emerging Technologies</i> , 2015, 52, 74-92.	3.9	58
12	Vessel Fleet Analysis for Maintenance Operations at Offshore Wind Farms. <i>Energy Procedia</i> , 2013, 35, 167-176.	1.8	56
13	Scenario Tree-Based Heuristics for Stochastic Inventory-Routing Problems. <i>INFORMS Journal on Computing</i> , 2009, 21, 268-285.	1.0	52
14	Robust Optimization for a Maritime Inventory Routing Problem. <i>Transportation Science</i> , 2018, 52, 509-525.	2.6	51
15	Optimization of Routing and Scheduling of Vessels to Perform Maintenance at Offshore Wind Farms. <i>Energy Procedia</i> , 2015, 80, 92-99.	1.8	49
16	Heuristics for the robust vehicle routing problem with time windows. <i>Expert Systems With Applications</i> , 2017, 77, 136-147.	4.4	49
17	A comparison of acceptance criteria for the adaptive large neighbourhood search metaheuristic. <i>Journal of Heuristics</i> , 2018, 24, 783-815.	1.1	43
18	Finding local optima of high-dimensional functions using direct search methods. <i>European Journal of Operational Research</i> , 2009, 195, 31-45.	3.5	39

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19	Tank allocation problems in maritime bulk shipping. <i>Computers and Operations Research</i> , 2009, 36, 3051-3060.	2.4	32
20	Routing and scheduling of RoRo ships with stowage constraints. <i>Transportation Research Part C: Emerging Technologies</i> , 2011, 19, 1225-1242.	3.9	32
21	Heuristics for dynamic and stochastic routing in industrial shipping. <i>Computers and Operations Research</i> , 2013, 40, 253-263.	2.4	32
22	An iterative two-phase hybrid matheuristic for a multi-product short sea inventory-routing problem. <i>European Journal of Operational Research</i> , 2016, 252, 775-788.	3.5	31
23	Meta-analysis of metaheuristics: Quantifying the effect of adaptiveness in adaptive large neighborhood search. <i>European Journal of Operational Research</i> , 2021, 292, 423-442.	3.5	30
24	Vessel Fleet Optimization for Maintenance Operations at Offshore Wind Farms Under Uncertainty. <i>Energy Procedia</i> , 2016, 94, 357-366.	1.8	29
25	Comparing techniques for modelling uncertainty in a maritime inventory routing problem. <i>European Journal of Operational Research</i> , 2019, 277, 831-845.	3.5	29
26	Adaptive memory search for multidemand multidimensional knapsack problems. <i>Computers and Operations Research</i> , 2006, 33, 2508-2525.	2.4	28
27	Scheduling of Maintenance Tasks and Routing of a Joint Vessel Fleet for Multiple Offshore Wind Farms. <i>Journal of Marine Science and Engineering</i> , 2017, 5, 11.	1.2	27
28	Optimization of stowage plans for RoRo ships. <i>Computers and Operations Research</i> , 2011, 38, 1425-1434.	2.4	26
29	A stochastic programming formulation for strategic fleet renewal in shipping. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , 2014, 72, 60-76.	3.7	26
30	Adaptive memory search for Boolean optimization problems. <i>Discrete Applied Mathematics</i> , 2004, 142, 99-109.	0.5	24
31	An effective heuristic for solving a combined cargo and inventory routing problem in tramp shipping. <i>Computers and Operations Research</i> , 2015, 64, 274-282.	2.4	22
32	Load-dependent speed optimization in maritime inventory routing. <i>Computers and Operations Research</i> , 2020, 123, 105051.	2.4	21
33	Adaptive large neighborhood search heuristics for multi-tier service deployment problems in clouds. <i>European Journal of Operational Research</i> , 2017, 259, 829-846.	3.5	19
34	A comprehensive review of plus-minus ratings for evaluating individual players in team sports. <i>International Journal of Computer Science in Sport</i> , 2019, 18, 1-23.	0.6	19
35	Benchmark Suite for Industrial and Tramp Ship Routing and Scheduling Problems. <i>Infor</i> , 2014, 52, 28-38.	0.5	18
36	The value of integrated planning for production, inventory, and routing decisions: A systematic review and meta-analysis. <i>International Journal of Production Economics</i> , 2022, 248, 108468.	5.1	17

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37	Modelling the financial contribution of soccer players to their clubs. <i>Journal of Sports Analytics</i> , 2019, 5, 23-34.	0.5	15
38	Multi-objective sustainable location-districting for the collection of municipal solid waste: Two case studies. <i>Computers and Industrial Engineering</i> , 2020, 150, 106965.	3.4	15
39	Maritime fleet deployment with voyage separation requirements. <i>Flexible Services and Manufacturing Journal</i> , 2015, 27, 180-199.	1.9	14
40	Improved solutions to dynamic and stochastic maritime pick-up and delivery problems using local search. <i>Annals of Operations Research</i> , 2017, 253, 825-843.	2.6	14
41	Predicting match outcomes in association football using team ratings and player ratings. <i>Statistical Modelling</i> , 2021, 21, 449-470.	0.5	13
42	Designing effective improvement methods for scatter search: an experimental study on global optimization. <i>Soft Computing</i> , 2013, 17, 49-62.	2.1	12
43	A MIP Based Local Search Heuristic for a Stochastic Maritime Inventory Routing Problem. <i>Lecture Notes in Computer Science</i> , 2016, , 18-34.	1.0	12
44	Evaluating the importance of randomization in adaptive large neighborhood search. <i>International Transactions in Operational Research</i> , 2017, 24, 929-942.	1.8	12
45	Alternating control tree search for knapsack/covering problems. <i>Journal of Heuristics</i> , 2010, 16, 239-258.	1.1	11
46	Analyzing Information Efficiency in the Betting Market for Association Football League Winners. <i>The Journal of Prediction Markets</i> , 2013, 7, 55-70.	0.1	11
47	A matheuristic for the robust integrated airline fleet assignment, aircraft routing, and crew pairing problem. <i>Computers and Operations Research</i> , 2022, 137, 105551.	2.4	10
48	Combined emergency preparedness and operations for safe personnel transport to offshore locations. <i>Omega</i> , 2017, 67, 31-41.	3.6	8
49	A mathematical programming framework for planning an emergency response system in the offshore oil and gas industry. <i>Safety Science</i> , 2019, 113, 328-335.	2.6	8
50	Routing and scheduling in project shipping. <i>Annals of Operations Research</i> , 2013, 207, 67-81.	2.6	7
51	Evaluating passing ability in association football. <i>IMA Journal of Management Mathematics</i> , 2020, 31, 91-116.	1.1	6
52	Multi-objective optimization for a strategic ATM network redesign problem. <i>Annals of Operations Research</i> , 2021, 296, 7-33.	2.6	6
53	Maximizing performance with an eye on the finances: a chance-constrained model for football transfer market decisions. <i>Top</i> , 2021, 29, 583-611.	1.1	6
54	Evaluating the effectiveness of different network flow motifs in association football. <i>Journal of Quantitative Analysis in Sports</i> , 2020, 16, 311-323.	0.5	6

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55	Playing on artificial turf may be an advantage for Norwegian soccer teams. <i>Journal of Quantitative Analysis in Sports</i> , 2015, 11, .	0.5	5
56	Weighted proximity search. <i>Journal of Heuristics</i> , 2021, 27, 459-496.	1.1	5
57	Experiments Using Scatter Search for the Multidemand Multidimensional Knapsack Problem. , 2007, , 3-24.		5
58	On the Value of Aspiration Criteria in Tabu Search. <i>International Journal of Applied Metaheuristic Computing</i> , 2016, 7, 39-49.	0.5	4
59	Simple heuristics for the multi-period fleet size and mix vehicle routing problem. <i>Infor</i> , 2016, 54, 97-120.	0.5	4
60	On the relationship between +/â€“ ratings andÂevent-level performance statistics. <i>Journal of Sports Analytics</i> , 2020, 6, 85-97.	0.5	4
61	The Double Traveling Salesman Problem with Multiple Stacks and a Choice of Container Types. <i>Mathematics</i> , 2020, 8, 979.	1.1	4
62	The Probabilistic Final Standing Calculator: a fair stochastic tool to handle abruptly stopped football seasons. <i>AStA Advances in Statistical Analysis</i> , 2023, 107, 251-269.	0.4	4
63	Determining departure times in dynamic and stochastic maritime routing and scheduling problems. <i>Flexible Services and Manufacturing Journal</i> , 2017, 29, 553-571.	1.9	3
64	Preface: logistics, optimization and transportationâ€”in memory of the late Arne LÃ¼kktangen. <i>Annals of Operations Research</i> , 2017, 253, 709-711.	2.6	3
65	Offensive and Defensive Plusâ€“Minus Player Ratings for Soccer. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 7345.	1.3	3
66	Data for a meta-analysis of the adaptive layer in adaptive large neighborhood search. <i>Data in Brief</i> , 2020, 33, 106568.	0.5	3
67	Longâ€term effects of short planning horizons for inventory routing problems. <i>International Transactions in Operational Research</i> , 2022, 29, 2995-3030.	1.8	3
68	Extended high dimensional indexing approach for reachability queries on very large graphs. <i>Expert Systems With Applications</i> , 2021, 181, 114962.	4.4	3
69	Composing Vessel Fleets for Maintenance at Offshore Wind Farms by Solving a Dual-Level Stochastic Programming Problem Using GRASP. <i>Logistics</i> , 2022, 6, 6.	2.4	3
70	Exponential extrapolation memory for tabu search. <i>EURO Journal on Computational Optimization</i> , 2022, 10, 100028.	1.5	3
71	Scheduling fighter squadron training missions using column generation. <i>Optimization Letters</i> , 2015, 9, 1659-1674.	0.9	2
72	Comparing bottom-up and top-down ratings for individual soccer players. <i>International Journal of Computer Science in Sport</i> , 2021, 20, 23-42.	0.6	2

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73	The Multi-period Fleet Size and Mix Vehicle Routing Problem with Stochastic Demands. Computational Methods in Applied Sciences (Springer), 2018, , 121-146.	0.1	1
74	Combining solutions of the optimum satisfiability problem using evolutionary tunneling. Mendel, 2020, 26, 23-29.	0.5	1
75	A dual-level stochastic fleet size and mix problem for offshore wind farm maintenance operations. Infor, 0, , 1-33.	0.5	1
76	Weighted iterated local branching for mathematical programming problems with binary variables. Journal of Heuristics, 2022, 28, 329-350.	1.1	1
77	Delayed improvement local search. Journal of Heuristics, 2021, 27, 923.	1.1	0
78	An application of the multi-depot heterogeneous fixed fleet open vehicle routing problem. International Journal of Advanced Operations Management, 2020, 12, 142.	0.3	0