

# Kjetil Fagerholt

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/3727650/kjetil-fagerholt-publications-by-citations.pdf>  
**Version:** 2024-04-09

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.  
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

97 papers	3,545 citations	28 h-index	58 g-index
103 ext. papers	4,077 ext. citations	4.1 avg, IF	5.86 L-index

#	Paper	IF	Citations
97	Ship Routing and Scheduling: Status and Perspectives. <i>Transportation Science</i> , <b>2004</b> , 38, 1-18	4.4	489
96	Ship routing and scheduling in the new millennium. <i>European Journal of Operational Research</i> , <b>2013</b> , 228, 467-483	5.6	374
95	Tramp ship routing and scheduling with speed optimization. <i>Transportation Research Part C: Emerging Technologies</i> , <b>2011</b> , 19, 853-865	8.4	189
94	Chapter 4 Maritime Transportation. <i>Handbooks in Operations Research and Management Science</i> , <b>2007</b> , 14, 189-284		156
93	Maritime routing and speed optimization with emission control areas. <i>Transportation Research Part C: Emerging Technologies</i> , <b>2015</b> , 52, 57-73	8.4	148
92	Ship scheduling with soft time windows: An optimisation based approach. <i>European Journal of Operational Research</i> , <b>2001</b> , 131, 559-571	5.6	137
91	Designing optimal routes in a liner shipping problem. <i>Maritime Policy and Management</i> , <b>2004</b> , 31, 259-268	5	106
90	A computer-based decision support system for vessel fleet scheduling—experience and future research. <i>Decision Support Systems</i> , <b>2004</b> , 37, 35-47	5.6	89
89	A rolling horizon heuristic for creating a liquefied natural gas annual delivery program. <i>Transportation Research Part C: Emerging Technologies</i> , <b>2011</b> , 19, 896-911	8.4	81
88	Integrated maritime fleet deployment and speed optimization: Case study from RoRo shipping. <i>Computers and Operations Research</i> , <b>2015</b> , 55, 233-240	4.6	80
87	On two speed optimization problems for ships that sail in and out of emission control areas. <i>Transportation Research, Part D: Transport and Environment</i> , <b>2015</b> , 39, 56-64	6.4	80
86	Maritime inventory routing with multiple products: A case study from the cement industry. <i>European Journal of Operational Research</i> , <b>2011</b> , 208, 86-94	5.6	80
85	Analysis of an exact algorithm for the vessel speed optimization problem. <i>Networks</i> , <b>2013</b> , 62, 132-135	1.6	74
84	A multi-start local search heuristic for ship scheduling—computational study. <i>Computers and Operations Research</i> , <b>2007</b> , 34, 900-917	4.6	64
83	Robust ship scheduling with multiple time windows. <i>Naval Research Logistics</i> , <b>2002</b> , 49, 611-625	1.5	63
82	A survey on maritime fleet size and mix problems. <i>European Journal of Operational Research</i> , <b>2014</b> , 235, 341-349	5.6	62
81	A construction and improvement heuristic for a liquefied natural gas inventory routing problem. <i>Computers and Industrial Engineering</i> , <b>2012</b> , 62, 245-255	6.4	56

80	A large neighbourhood search heuristic for ship routing and scheduling with split loads. <i>Computers and Operations Research</i> , <b>2011</b> , 38, 474-483	4.6	55
79	Optimal fleet composition and periodic routing of offshore supply vessels. <i>European Journal of Operational Research</i> , <b>2012</b> , 223, 508-517	5.6	54
78	Routing and scheduling in a liquefied natural gas shipping problem with inventory and berth constraints. <i>Annals of Operations Research</i> , <b>2013</b> , 203, 167-186	3.2	52
77	Fleet deployment in liner shipping: a case study. <i>Maritime Policy and Management</i> , <b>2009</b> , 36, 397-409	2.5	48
76	A decision support methodology for strategic planning in maritime transportation. <i>Omega</i> , <b>2010</b> , 38, 465-474	7.2	48
75	Optimal charging and repositioning of electric vehicles in a free-floating carsharing system. <i>Computers and Operations Research</i> , <b>2020</b> , 113, 104771	4.6	39
74	Vessel routing and scheduling under uncertainty in the liquefied natural gas business. <i>Computers and Industrial Engineering</i> , <b>2013</b> , 64, 290-301	6.4	36
73	The fleet renewal problem with regional emission limitations: Case study from Roll-on/Roll-off shipping. <i>Transportation Research Part C: Emerging Technologies</i> , <b>2015</b> , 56, 346-358	8.4	31
72	Bulk ship routing and scheduling: solving practical problems may provide better results. <i>Maritime Policy and Management</i> , <b>2013</b> , 40, 48-64	2.5	29
71	Ship routing and scheduling with cargo coupling and synchronization constraints. <i>Computers and Industrial Engineering</i> , <b>2011</b> , 61, 1107-1116	6.4	29
70	Tank allocation problems in maritime bulk shipping. <i>Computers and Operations Research</i> , <b>2009</b> , 36, 3051-3060	4.6	29
69	The Maritime Pickup and Delivery Problem with Time Windows and Split Loads. <i>Infor</i> , <b>2011</b> , 49, 79-91	0.5	28
68	A tabu search heuristic for ship routing and scheduling with flexible cargo quantities. <i>Journal of Heuristics</i> , <b>2010</b> , 16, 117-137	1.9	28
67	Uncertainty in Fleet Renewal: A Case from Maritime Transportation. <i>Transportation Science</i> , <b>2016</b> , 50, 390-407	4.4	27
66	The Traveling Salesman Problem with Draft Limits. <i>Computers and Operations Research</i> , <b>2012</b> , 39, 2161-2167	4.6	27
65	Routing and scheduling of RoRo ships with stowage constraints. <i>Transportation Research Part C: Emerging Technologies</i> , <b>2011</b> , 19, 1225-1242	8.4	26
64	Concurrent design of vessel machinery system and air emission controls to meet future air emissions regulations. <i>Ocean Engineering</i> , <b>2014</b> , 84, 283-292	3.9	25
63	Heuristics for dynamic and stochastic routing in industrial shipping. <i>Computers and Operations Research</i> , <b>2013</b> , 40, 253-263	4.6	25

62	Optimization of diesel electric machinery system configuration in conceptual ship design. <i>Journal of Marine Science and Technology</i> , <b>2015</b> , 20, 406-416	1.7	24
61	Vendor managed inventory in tramp shipping. <i>Omega</i> , <b>2014</b> , 47, 60-72	7.2	24
60	Optimized selection of air emission controls for vessels. <i>Maritime Policy and Management</i> , <b>2012</b> , 39, 387-400	4.9	23
59	Optimization of stowage plans for RoRo ships. <i>Computers and Operations Research</i> , <b>2011</b> , 38, 1425-1434	4.6	22
58	Evaluating the trade-off between the level of customer service and transportation costs in a ship scheduling problem. <i>Maritime Policy and Management</i> , <b>2000</b> , 27, 145-153	2.5	22
57	A stochastic programming formulation for strategic fleet renewal in shipping. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , <b>2014</b> , 72, 60-76	9	20
56	Vessel routing with pickups and deliveries: An application to the supply of offshore oil platforms. <i>Computers and Operations Research</i> , <b>2017</b> , 79, 140-147	4.6	20
55	A traveling salesman problem with pickups and deliveries, time windows and draft limits: Case study from chemical shipping. <i>Computers and Operations Research</i> , <b>2017</b> , 77, 20-31	4.6	20
54	Optimized selection of vessel air emission controls moving beyond cost-efficiency. <i>Maritime Policy and Management</i> , <b>2015</b> , 42, 362-376	2.5	20
53	Robust planning and disruption management in roll-on roll-off liner shipping. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , <b>2016</b> , 91, 51-67	9	20
52	A Large Neighbourhood Search Heuristic for a Periodic Supply Vessel Planning Problem Arising in Offshore Oil and Gas Operations. <i>Infor</i> , <b>2012</b> , 50, 195-204	0.5	19
51	Solving Hierarchical Stochastic Programs: Application to the Maritime Fleet Renewal Problem. <i>INFORMS Journal on Computing</i> , <b>2015</b> , 27, 89-102	2.4	18
50	An exact solution method for the capacitated item-sharing and crowdshipping problem. <i>European Journal of Operational Research</i> , <b>2019</b> , 279, 589-604	5.6	16
49	Planning vessel air emission regulations compliance under uncertainty. <i>Journal of Marine Science and Technology</i> , <b>2013</b> , 18, 349-357	1.7	16
48	A semi-smart predict then optimize (semi-SPO) method for efficient ship inspection. <i>Transportation Research Part B: Methodological</i> , <b>2020</b> , 142, 100-125	7.2	15
47	Combined fleet deployment and inventory management in roll-on/roll-off shipping. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , <b>2016</b> , 92, 43-55	9	15
46	Benchmark Suite for Industrial and Tramp Ship Routing and Scheduling Problems. <i>Infor</i> , <b>2014</b> , 52, 28-38	0.5	14
45	A traveling salesman problem with pickups and deliveries and stochastic travel times: An application from chemical shipping. <i>European Journal of Operational Research</i> , <b>2018</b> , 269, 844-859	5.6	13

44	Operational planning of routes and schedules for a fleet of fuel supply vessels. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , <b>2017</b> , 105, 163-175	9	13
43	An economic analysis of introducing autonomous ships in a short-sea liner shipping network. <i>International Transactions in Operational Research</i> , <b>2021</b> , 28, 1740-1764	2.9	13
42	Maritime fleet deployment with voyage separation requirements. <i>Flexible Services and Manufacturing Journal</i> , <b>2015</b> , 27, 180-199	1.8	12
41	Analysing the modal shift from road-based to coastal shipping-based distribution in a case study of outbound automotive logistics in India. <i>Maritime Policy and Management</i> , <b>2020</b> , 47, 273-286	2.5	12
40	An adaptive large neighborhood search heuristic for fleet deployment problems with voyage separation requirements. <i>Transportation Research Part C: Emerging Technologies</i> , <b>2016</b> , 70, 129-141	8.4	12
39	Shortsea liner network design with transshipments at sea: a case study from Western Norway. <i>Flexible Services and Manufacturing Journal</i> , <b>2019</b> , 31, 598-619	1.8	11
38	Chapter 13: Ship Routing and Scheduling in Industrial and Tramp Shipping <b>2014</b> , 381-408		11
37	A genetic search-based heuristic for a fleet size and periodic routing problem with application to offshore supply planning. <i>EURO Journal on Transportation and Logistics</i> , <b>2018</b> , 7, 121-150	2.4	11
36	Which uncertainty is important in multistage stochastic programmes? A case from maritime transportation. <i>IMA Journal of Management Mathematics</i> , <b>2017</b> , 28, 5-17	1.4	10
35	Industrial and tramp ship routing problems: Closing the gap for real-scale instances. <i>European Journal of Operational Research</i> , <b>2020</b> , 283, 972-990	5.6	10
34	Design of a sustainable maritime multi-modal distribution network in a case study from automotive logistics. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , <b>2020</b> , 143, 102086	9	10
33	Reducing sulfur and nitrogen emissions in shipping economically. <i>Transportation Research, Part D: Transport and Environment</i> , <b>2021</b> , 90, 102641	6.4	9
32	Scheduling two-way ship traffic for the Kiel Canal: Model, extensions and a metaheuristic. <i>Computers and Operations Research</i> , <b>2019</b> , 106, 119-132	4.6	8
31	Impact of simulation model fidelity and simulation method on ship operational performance evaluation in sea passage scenarios. <i>Ocean Engineering</i> , <b>2019</b> , 188, 106268	3.9	7
30	Optimisation of the broiler production supply chain. <i>International Journal of Production Research</i> , <b>2020</b> , 58, 5218-5237	7.8	7
29	A two-phase heuristic for an in-port ship routing problem with tank allocation. <i>Computers and Operations Research</i> , <b>2018</b> , 91, 37-47	4.6	7
28	Routing and scheduling in project shipping. <i>Annals of Operations Research</i> , <b>2013</b> , 207, 67-81	3.2	6
27	Combined maritime fleet deployment and inventory management with port visit flexibility in roll-on roll-off shipping. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , <b>2020</b> , 140, 101988	9	6

26	Some Thoughts on Research Directions for the Future: Introduction to the Special Issue in Maritime Transportation. <i>Infor</i> , <b>2011</b> , 49, 75-77	0.5	5
25	A Ship Design and Deployment Model for Non-Cargo Vessels Using Contract Scenarios. <i>Ship Technology Research</i> , <b>2011</b> , 58, 132-141	1.6	5
24	A simulation study on the design of flexible cargo holds in small-sized bulk ships. <i>Maritime Policy and Management</i> , <b>1999</b> , 26, 105-109	2.5	5
23	Optimal ship lifetime fuel and power system selection. <i>Transportation Research, Part D: Transport and Environment</i> , <b>2022</b> , 102, 103145	6.4	5
22	A multi-period analysis of the integrated item-sharing and crowdshipping problem. <i>European Journal of Operational Research</i> , <b>2021</b> , 292, 483-499	5.6	5
21	Analyzing different designs of liner shipping feeder networks: A case study. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , <b>2020</b> , 134, 101839	9	4
20	Bi-objective offshore supply vessel planning with costs and persistence objectives. <i>Computers and Operations Research</i> , <b>2019</b> , 111, 285-296	4.6	4
19	Ship Routing Scheduling with Persistence and Distance Objectives. <i>Lecture Notes in Economics and Mathematical Systems</i> , <b>2009</b> , 89-107	0.4	4
18	The Dynamic Electric Carsharing Relocation Problem. <i>EURO Journal on Transportation and Logistics</i> , <b>2021</b> , 10, 100055	2.4	3
17	An adaptive large neighborhood search heuristic for the planar storage location assignment problem: application to stowage planning for Roll-on Roll-off ships. <i>Journal of Heuristics</i> , <b>2020</b> , 26, 885-912	1.9	3
16	Planning interrelated voyages with separation requirements in roll-on roll-off shipping. <i>EURO Journal on Transportation and Logistics</i> , <b>2019</b> , 8, 633-659	2.4	2
15	Green Tramp Shipping Routing and Scheduling: Effects of Market-Based Measures on CO2 Reduction <b>2019</b> , 285-305		2
14	Scheduling fighter squadron training missions using column generation. <i>Optimization Letters</i> , <b>2015</b> , 9, 1659-1674	1.1	2
13	Combining Optimization and Simulation for Designing a Robust Short-Sea Feeder Network. <i>Algorithms</i> , <b>2020</b> , 13, 304	1.8	2
12	Coordinated approaches for Port State Control Inspection planning. <i>Maritime Policy and Management</i> , 1-16	2.5	2
11	The aquaculture service vessel routing problem with time dependent travel times and synchronization constraints. <i>Computers and Operations Research</i> , <b>2021</b> , 134, 105316	4.6	2
10	A New Formulation for the Combined Maritime Fleet Deployment and Inventory Management Problem. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 321-335	0.9	1
9	Evaluating Port Development Strategies for a Modal Shift: A Norwegian Case Study. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 3-17	0.9	1

8	A decomposition solution approach to the troops-to-tasks assignment in military peacekeeping operations. <i>Journal of Defense Modeling and Simulation</i> , <b>2020</b> , 17, 357-371	0.4	1
7	A variable neighbourhood search heuristic for disruption management in offshore oil and gas logistics. <i>Journal of the Operational Research Society</i> , <b>2019</b> , 70, 588-600	2	1
6	Base location and helicopter fleet composition in the oil industry. <i>Infor</i> , <b>2017</b> , 55, 71-92	0.5	0
5	Evaluating the potential for modal shift in last-mile cargo distribution through stochastic programming. <i>Maritime Transport Research</i> , <b>2020</b> , 1, 100002	1	0
4	Step-wise stowage planning of roll-on roll-off ships transporting dangerous goods. <i>Maritime Transport Research</i> , <b>2021</b> , 2, 100029	1	0
3	The fish feed production routing problem. <i>Computers and Operations Research</i> , <b>2022</b> , 105806	4.6	0
2	Operational sea passage scenario generation for virtual testing of ships using an optimization for simulation approach. <i>Journal of Marine Science and Technology</i> , <b>2020</b> , 26, 896	1.7	
1	A Decision Support Model for Minimising Sloshing Risk in LNG Discharge Operations. <i>Ship Technology Research</i> , <b>2010</b> , 57, 154-161	1.6	