Nils Boysen

List of Publications by Year
in descending order

146 papers	6,984 citations	76031 42 h-index	78623 77 g-index
150 all docs	150 docs citations	150 times ranked	2887 citing authors

#	ARTICLE	IF	CITATIONS
1	E-platooning: Optimizing platoon formation for long-haul transportation with electric commercial vehicles. European Journal of Operational Research, 2023, 304, 525-542.	3.5	10
2	Optimizing consolidation processes in hubs: The hub-arrival-departure problem. European Journal of Operational Research, 2022, 298, 1051-1066.	3.5	3
3	Picker Routing in AGV-Assisted Order Picking Systems. INFORMS Journal on Computing, 2022, 34, 440-462.	1.0	24
4	Optimizing the electrification of roads with charge-while-drive technology. European Journal of Operational Research, 2022, 299, 1111-1127.	3.5	14
5	The Piggyback Transportation Problem: Transporting drones launched from a flying warehouse. European Journal of Operational Research, 2022, 296, 504-519.	3.5	22
6	Crowdshipping by employees of distribution centers: Optimization approaches for matching supply and demand. European Journal of Operational Research, 2022, 296, 539-556.	3.5	29
7	Twin-crane scheduling during seaside workload peaks with a dedicated handshake area. Journal of Scheduling, 2022, 25, 3.	1.3	6
8	Assembly line balancing: What happened in the last fifteen years?. European Journal of Operational Research, 2022, 301, 797-814.	3.5	71
9	Optimal Picking Policies in E-Commerce Warehouses. Management Science, 2022, 68, 7497-7517.	2.4	12
10	The traveling salesman problem with drone resupply. OR Spectrum, 2022, 44, 1045-1086.	2.1	6
11	Efficient order consolidation in warehouses: The product-to-order-assignment problem in warehouses with sortation systems. IISE Transactions, 2022, 54, 963-975.	1.6	4
12	Crane scheduling for end-of-aisle picking: Complexity and efficient solutions based on the vehicle routing problem. EURO Journal on Transportation and Logistics, 2022, 11, 100085.	1.3	3
13	Who moves the locker? A benchmark study of alternative mobile parcel locker concepts. Transportation Research Part C: Emerging Technologies, 2022, 142, 103780.	3.9	8
14	High-density storage with mobile racks: Picker routing and product location. Journal of the Operational Research Society, 2021, 72, 535-553.	2.1	14
15	Last-mile delivery concepts: a survey from an operational research perspective. OR Spectrum, 2021, 43, 1-58.	2.1	210
16	The forgotten sons: Warehousing systems for brick-and-mortar retail chains. European Journal of Operational Research, 2021, 288, 361-381.	3.5	51
17	Scheduling taxi services for a team of car relocators. Computers and Operations Research, 2021, 128, 105188.	2.4	2
18	Walk the Line: Optimizing the Layout Design of Moving Walkways. Transportation Science, 2021, 55, 908-929.	2.6	1

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19	Layout Design of Parking Lots with Mathematical Programming. Transportation Science, 2021, 55, 930-945.	2.6	6
20	Integrated real-time control of mixed-model assembly lines and their part feeding processes. Computers and Operations Research, 2021, 132, 105344.	2.4	14
21	Optimizing carpool formation along high-occupancy vehicle lanes. European Journal of Operational Research, 2021, 293, 1097-1112.	3.5	12
22	Rail platooning: Scheduling trains along a rail corridor with rapid-shunting facilities. European Journal of Operational Research, 2021, 294, 760-778.	3.5	8
23	See the light: Optimization of put‐to‐light order picking systems. Naval Research Logistics, 2020, 67, 3-20.	1.4	11
24	Robust spotter scheduling in trailer yards. OR Spectrum, 2020, 42, 995-1021.	2.1	0
25	Optimizing the changing locations of mobile parcel lockers in last-mile distribution. European Journal of Operational Research, 2020, 285, 1077-1094.	3.5	92
26	Warehousing in the e-commerce era: A survey. European Journal of Operational Research, 2019, 277, 396-411.	3.5	348
27	Sequencing of picking orders to facilitate the replenishment of A-Frame systems. IISE Transactions, 2019, 51, 368-381.	1.6	9
28	Automated sortation conveyors: A survey from an operational research perspective. European Journal of Operational Research, 2019, 276, 796-815.	3.5	44
29	Trolley line picking: storage assignment and order sequencing to increase picking performance. OR Spectrum, 2019, 41, 1087-1121.	2.1	10
30	Integrated truck and workforce scheduling to accelerate the unloading of trucks. European Journal of Operational Research, 2019, 278, 343-362.	3.5	40
31	Matching supply and demand in a sharing economy: Classification, computational complexity, and application. European Journal of Operational Research, 2019, 278, 578-595.	3.5	52
32	The cafeteria problem: order sequencing and picker routing in on-the-line picking systems. OR Spectrum, 2019, 41, 727-756.	2.1	5
33	Picker routing in the mixed-shelves warehouses of e-commerce retailers. European Journal of Operational Research, 2019, 274, 501-515.	3.5	56
34	Parallel machine scheduling with job synchronization to enable efficient material flows in hub terminals. Omega, 2019, 89, 110-121.	3.6	12
35	High-performance order processing in picking workstations. EURO Journal on Transportation and Logistics, 2019, 8, 65-90.	1.3	18
36	Manual order consolidation with put walls: the batched order bin sequencing problem. EURO Journal on Transportation and Logistics, 2019, 8, 169-193.	1.3	29

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37	Container supply with multi-trailer trucks: parking strategies to speed up the gantry crane-based loading of freight trains in rail yards. OR Spectrum, 2018, 40, 319.	2.1	5
38	Gantry crane scheduling in intermodal rail-road container terminals. International Journal of Production Research, 2018, 56, 5419-5436.	4.9	25
39	The identical-path truck platooning problem. Transportation Research Part B: Methodological, 2018, 109, 26-39.	2.8	78
40	On the quality of simple measures predicting block relocations in container yards. International Journal of Production Research, 2018, 56, 60-71.	4.9	9
41	Rail terminal operations. OR Spectrum, 2018, 40, 317-318.	2.1	1
42	Optimizing automated sorting in warehouses: The minimum order spread sequencing problem. European Journal of Operational Research, 2018, 270, 386-400.	3.5	46
43	Scheduling electric vehicles and locating charging stations on a path. Journal of Scheduling, 2018, 21, 111-126.	1.3	15
44	Just-in-time logistics for far-distant suppliers: scheduling truck departures from an intermediate cross-docking terminal. OR Spectrum, 2018, 40, 1-21.	2.1	21
45	Dock sharing in cross-docking facilities of the postal service industry. Journal of the Operational Research Society, 2018, 69, 1061-1076.	2.1	15
46	Deep-lane storage of time-critical items: one-sided versus two-sided access. OR Spectrum, 2018, 40, 1141-1170.	2.1	15
47	Storage Assignment with Rack-Moving Mobile Robots in KIVA Warehouses. Transportation Science, 2018, 52, 1479-1495.	2.6	83
48	Scattered Storage: How to Distribute Stock Keeping Units All Around a Mixed-Shelves Warehouse. Transportation Science, 2018, 52, 1412-1427.	2.6	60
49	Drone delivery from trucks: Drone scheduling for given truck routes. Networks, 2018, 72, 506-527.	1.6	122
50	Robust storage assignment in stack- and queue-based storage systems. Computers and Operations Research, 2018, 100, 189-200.	2.4	11
51	Scheduling last-mile deliveries with truck-based autonomous robots. European Journal of Operational Research, 2018, 271, 1085-1099.	3.5	160
52	Layout Planning of Sortation Conveyors in Parcel Distribution Centers. Transportation Science, 2017, 51, 3-18.	2.6	29
53	Order picking along a crane-supplied pick face: The SKU switching problem. European Journal of Operational Research, 2017, 260, 534-545.	3.5	29
54	Zoneâ€based tariff design in public transportation networks. Networks, 2017, 69, 349-366.	1.6	8

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55	Truck Scheduling in the Postal Service Industry. Transportation Science, 2017, 51, 723-736.	2.6	19
56	Parts-to-picker based order processing in a rack-moving mobile robots environment. European Journal of Operational Research, 2017, 262, 550-562.	3.5	140
57	Ergonomic workplace design in the fast pick area. OR Spectrum, 2017, 39, 945-975.	2.1	39
58	A comparison of different container sorting systems in modern rail-rail transshipment yards. Transportation Research Part C: Emerging Technologies, 2017, 82, 63-87.	3.9	13
59	Efficient order processing in an inverse order picking system. Computers and Operations Research, 2017, 88, 150-160.	2.4	27
60	Crane scheduling in railway yards: an analysis of computational complexity. Journal of Scheduling, 2017, 20, 507-526.	1.3	9
61	Scheduling shipments in closed-loop sortation conveyors. Journal of Scheduling, 2017, 20, 25-42.	1.3	14
62	When road trains supply freight trains: scheduling the container loading process by gantry crane between multi-trailer trucks and freight trains. OR Spectrum, 2017, 39, 137-164.	2.1	10
63	Which items should be stored together? A basic partition problem to assign storage space in group-based storage systems. IISE Transactions, 2017, 49, 13-30.	1.6	16
64	Gantry crane and shuttle car scheduling in modern rail–rail transshipment yards. OR Spectrum, 2017, 39, 473-503.	2.1	9
65	A generalized classification scheme for crane scheduling with interference. European Journal of Operational Research, 2017, 258, 343-357.	3.5	101
66	Sequencing of picking orders in mobile rack warehouses. European Journal of Operational Research, 2017, 259, 293-307.	3.5	34
67	A survey on single crane scheduling in automated storage/retrieval systems. European Journal of Operational Research, 2016, 254, 691-704.	3.5	102
68	Resequencing with parallel queues to minimize the maximum number of items in the overflow area. Naval Research Logistics, 2016, 63, 401-415.	1.4	3
69	Cooperative twin-crane scheduling. Discrete Applied Mathematics, 2016, 211, 40-57.	0.5	47
70	Berth allocation in container terminals that service feeder ships and deep-sea vessels. Journal of the Operational Research Society, 2016, 67, 551-563.	2.1	28
71	The parallel stack loading problem to minimize blockages. European Journal of Operational Research, 2016, 249, 618-627.	3.5	30
72	Vehicle scheduling under the warehouse-on-wheels policy. Discrete Applied Mathematics, 2016, 205, 52-61.	0.5	7

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73	Cyclic inventory routing in a line-shaped network. European Journal of Operational Research, 2016, 250, 164-178.	3.5	17
74	The basic train makeup problem in shunting yards. OR Spectrum, 2016, 38, 207-233.	2.1	29
75	Just-in-time vehicle scheduling with capacity constraints. IIE Transactions, 2016, 48, 134-145.	2.1	12
76	A decomposition heuristic for the twin robots scheduling problem. Naval Research Logistics, 2015, 62, 16-22.	1.4	22
77	Synchronization in hub terminals with the circular arrangement problem. Naval Research Logistics, 2015, 62, 454-469.	1.4	4
78	Scheduling pick-up and delivery jobs in a hospital to level ergonomic stress. IIE Transactions on Healthcare Systems Engineering, 2015, 5, 42-53.	0.8	2
79	Iterative beam search for car sequencing. Annals of Operations Research, 2015, 226, 239-254.	2.6	17
80	Part logistics in the automotive industry: Decision problems, literature review and research agenda. European Journal of Operational Research, 2015, 242, 107-120.	3.5	183
81	RMG vs. DRMG: an evaluation of different crane configurations in intermodal transshipment yards. EURO Journal on Transportation and Logistics, 2015, 4, 355-377.	1.3	7
82	Car sequencing versus mixed-model sequencing: A computational study. European Journal of Operational Research, 2014, 237, 50-61.	3.5	21
83	One-dimensional vehicle scheduling with a front-end depot and non-crossing constraints. OR Spectrum, 2014, 36, 381-400.	2.1	8
84	The berth allocation problem with mobile quay walls: problem definition, solution procedures, and extensions. Journal of Scheduling, 2014, 17, 289-303.	1.3	12
85	A dynamic programming based heuristic for locating stops in public transportation networks. Computers and Industrial Engineering, 2014, 78, 163-174.	3.4	11
86	Scheduling the part supply of mixed-model assembly lines in line-integrated supermarkets. European Journal of Operational Research, 2014, 239, 820-829.	3.5	48
87	Scheduling of inventory releasing jobs to satisfy time-varying demand: an analysis of complexity. Journal of Scheduling, 2013, 16, 185-198.	1.3	16
88	Management control in the automotive industry. Journal of Management Control, 2013, 24, 93-94.	0.8	0
89	Just-in-Time supermarkets for part supply in the automobile industry. Journal of Management Control, 2013, 24, 209-217.	0.8	89
90	Truck scheduling in cross-docking terminals with fixed outbound departures. OR Spectrum, 2013, 35, 479-504.	2.1	56

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91	The assembly line balancing and scheduling problem with sequence-dependent setup times: problem extension, model formulation and efficient heuristics. OR Spectrum, 2013, 35, 291-320.	2.1	65
92	The discrete forwardâ€"reserve problem â€" Allocating space, selecting products, and area sizing in forward order picking. European Journal of Operational Research, 2013, 229, 585-594.	3.5	33
93	The deterministic product location problem under a pick-by-order policy. Discrete Applied Mathematics, 2013, 161, 2862-2875.	0.5	23
94	A decomposition approach for the car resequencing problem with selectivity banks. Computers and Operations Research, 2013, 40, 98-108.	2.4	26
95	A Survey on Container Processing in Railway Yards. Transportation Science, 2013, 47, 312-329.	2.6	95
96	Scheduling train loading with straddle carriers in container yards. Journal of the Operational Research Society, 2013, 64, 1841-1850.	2.1	4
97	Determining crane areas for balancing workload among interfering and noninterfering cranes. Naval Research Logistics, 2012, 59, 656-662.	1.4	12
98	Optimally loading tow trains for just-in-time supply of mixed-model assembly lines. IIE Transactions, 2012, 44, 121-135.	2.1	85
99	New bounds and algorithms for the transshipment yard scheduling problem. Journal of Scheduling, 2012, 15, 499-511.	1.3	28
100	How to park freight trains on railâ€"rail transshipment yards: the train location problem. OR Spectrum, 2012, 34, 535-561.	2.1	21
101	Optimally locating in-house logistics areas to facilitate JIT-supply of mixed-model assembly lines. International Journal of Production Economics, 2012, 135, 393-402.	5.1	87
102	Resequencing of mixed-model assembly lines: Survey and research agenda. European Journal of Operational Research, 2012, 216, 594-604.	3.5	86
103	Shunting yard operations: Theoretical aspects and applications. European Journal of Operational Research, 2012, 220, 1-14.	3.5	99
104	The Car Resequencing Problem with Pull-Off Tables. Business Research, 2011, 4, 276-292.	4.0	20
105	Optimally routing and scheduling tow trains for JIT-supply of mixed-model assembly lines. European Journal of Operational Research, 2011, 217, 287-287.	3.5	41
106	On the part inventory model sequencing problem: complexity and Beam Search heuristic. Journal of Scheduling, 2011, 14, 17-25.	1.3	10
107	Cross-docking. Journal of Management Control, 2011, 22, 129-137.	0.8	43
108	Scheduling aircraft landings to balance workload of ground staff. Computers and Industrial Engineering, 2011, 60, 206-217.	3.4	31

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109	Vis-À-vis vs. mixed dock door assignment: A comparison of different cross dock layouts. Operations Management Research, 2011, 4, 150-163.	5.0	10
110	Scheduling just-in-time part supply for mixed-model assembly lines. European Journal of Operational Research, 2011, 211, 15-25.	3.5	55
111	Sequencing mixed-model assembly lines to minimise the number of work overload situations. International Journal of Production Research, 2011, 49, 4735-4760.	4.9	36
112	Scheduling Freight Trains in Rail-Rail Transshipment Yards. Transportation Science, 2011, 45, 199-211.	2.6	51
113	Scheduling inbound and outbound trucks at cross docking terminals. OR Spectrum, 2010, 32, 135-161.	2.1	144
114	Truck scheduling at zero-inventory cross docking terminals. Computers and Operations Research, 2010, 37, 32-41.	2.4	139
115	Solving symmetric mixed-model multi-level just-in-time scheduling problems. Discrete Applied Mathematics, 2010, 158, 222-231.	0.5	13
116	Absalom: Balancing assembly lines with assignment restrictions. European Journal of Operational Research, 2010, 200, 688-701.	3.5	87
117	Level scheduling under limited resequencing flexibility. Flexible Services and Manufacturing Journal, 2010, 22, 236-257.	1.9	7
118	Cross dock scheduling: Classification, literature review and research agenda. Omega, 2010, 38, 413-422.	3.6	280
119	Determining crane areas in intermodal transshipment yards: The yard partition problem. European Journal of Operational Research, 2010, 204, 336-342.	3.5	75
120	Analysis and design of sequencing rules for car sequencing. European Journal of Operational Research, 2010, 206, 579-585.	3.5	14
121	Determining fixed crane areas in rail–rail transshipment yards. Transportation Research, Part E: Logistics and Transportation Review, 2010, 46, 1005-1016.	3.7	47
122	Balancing mixed-model assembly lines: a computational evaluation of objectives to smoothen workload. International Journal of Production Research, 2010, 48, 3173-3191.	4.9	48
123	Optimally solving the alternative subgraphs assembly line balancing problem. Annals of Operations Research, 2009, 172, 243-258.	2.6	23
124	Level Scheduling for batched JIT supply. Flexible Services and Manufacturing Journal, 2009, 21, 31-50.	1.9	18
125	Designing parallel assembly lines with split workplaces: Model and optimization procedure. International Journal of Production Economics, 2009, 119, 90-100.	5.1	45
126	Sequencing mixed-model assembly lines: Survey, classification and model critique. European Journal of Operational Research, 2009, 192, 349-373.	3.5	346

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127	The product rate variation problem and its relevance in real world mixed-model assembly lines. European Journal of Operational Research, 2009, 197, 818-824.	3.5	26
128	A General Solution Framework for Component-Commonality Problems. Business Research, 2009, 2, 86-106.	4.0	9
129	Level scheduling of mixed-model assembly lines under storage constraints. International Journal of Production Research, 2009, 47, 2669-2684.	4.9	30
130	Production planning of mixed-model assembly lines: overview and extensions. Production Planning and Control, 2009, 20, 455-471.	5.8	93
131	Assembly line balancing: Joint precedence graphs under high product variety. IIE Transactions, 2009, 41, 183-193.	2.1	44
132	A versatile algorithm for assembly line balancing. European Journal of Operational Research, 2008, 184, 39-56.	3.5	65
133	Ãœber die Wirkung der OptionsbÃ¼ndelung auf die Ablaufplanung einer VariantenflieÃŸfertigung. Zeitschrift FÃ¼r Planung Und Unternehmenssteuerung, 2008, 18, 301-321.	0.3	2
134	The sequence-dependent assembly line balancing problem. OR Spectrum, 2008, 30, 579-609.	2.1	75
135	Sequencing mixed-model assembly lines to minimize part inventory cost. OR Spectrum, 2008, 30, 611-633.	2.1	37
136	Solving the car sequencing problem via Branch & Bound. European Journal of Operational Research, 2008, 191, 1023-1042.	3.5	47
137	Assembly line balancing: Which model to use when?. International Journal of Production Economics, 2008, 111, 509-528.	5.1	354
138	Comments on â€œSolving real car sequencing problems with ant colony optimizationâ€. European Journal of Operational Research, 2007, 182, 466-468.	3.5	11
139	A classification of assembly line balancing problems. European Journal of Operational Research, 2007, 183, 674-693.	3.5	661
140	Produktionsplanung bei VariantenflieÃŸfertigung. , 2007, , 11-15.		5
141	Comment on M Gravel, C GagnÃ© and WL Price (2005). Review and comparison of three methods for the solution of the car sequencing problem. Journal of the Operational Research Society, 2006, 57, 1497-1498.	2.1	4
142	Ein flexibler zweistufiger Graphen-Algorithmus zur FlieÃŸbandabstimmung mit praxisrelevanten Nebenbedingungen. Journal of Business Economics, 2006, 76, 55-78.	1.3	3
143	Erfolgswirkung einer Partizipation an Virtuellen Unternehmungen. Zeitschrift FÃ¼r Planung Und Unternehmenssteuerung, 2005, 16, 147-166.	0.3	1
144	Produktionsprogrammplanung bei VariantenflieÃŸfertigung. Zeitschrift FÃ¼r Planung Und Unternehmenssteuerung, 2005, 16, 53-72.	0.3	7

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145	Variantenflieẞfertigung. , 2005, , .		34
146	Minimizing the makespan on a single machine subject to modular setups. Journal of Scheduling, 0, , 1.	1.3	1