

# RenÃ© Bm De Koster

## List of Publications by Year in descending order

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Version: 2024-02-01

154  
papers

9,957  
citations

41627

51  
h-index

46524

93  
g-index

157  
all docs

157  
docs citations

157  
times ranked

3873  
citing authors

#	ARTICLE	IF	CITATIONS
1	How to charge in servicizing: Per period or per use?. European Journal of Operational Research, 2023, 304, 981-996.	3.5	5
2	In pursuit of humanised order picking planning: methodological review, literature classification and input from practice. International Journal of Production Research, 2023, 61, 3300-3330.	4.9	20
3	Dense and fast: Achieving shortest unimpeded retrieval with a minimum number of empty cells in puzzle-based storage systems. IIE Transactions, 2023, 55, 156-171.	1.6	3
4	Fast and Faultless? Quantity and Quality Feedback in Order Picking. Production and Operations Management, 2022, 31, 1536-1559.	2.1	9
5	Business transformation in an age of turbulence â€“ Lessons learned from COVID-19. Technological Forecasting and Social Change, 2022, 176, 121452.	6.2	23
6	Quantifying the impact of sharing resources in a collaborative warehouse. European Journal of Operational Research, 2022, 302, 518-529.	3.5	8
7	Dynamic Vehicle Allocation Policies for Shared Autonomous Electric Fleets. Transportation Science, 2022, 56, 1238-1258.	2.6	2
8	Analysis and Design of Rack-Climbing Robotic Storage and Retrieval Systems. Transportation Science, 2022, 56, 1658-1676.	2.6	5
9	Modeling landside container terminal queues: Exact analysis and approximations. Transportation Research Part B: Methodological, 2022, 162, 73-102.	2.8	7
10	Performance evaluation of compact automated parking systems with mobile application and customer service priority. International Journal of Production Research, 2021, 59, 2926-2959.	4.9	4
11	Stochastic modeling of parallel process flows in intra-logistics systems: Applications in container terminals and compact storage systems. European Journal of Operational Research, 2021, 290, 159-176.	3.5	17
12	The forgotten sons: Warehousing systems for brick-and-mortar retail chains. European Journal of Operational Research, 2021, 288, 361-381.	3.5	51
13	The impact of integrated cluster-based storage allocation on parts-to-picker warehouse performance. Transportation Research, Part E: Logistics and Transportation Review, 2021, 146, 102207.	3.7	32
14	Performance evaluation of automated medicine delivery systems. Transportation Research, Part E: Logistics and Transportation Review, 2021, 147, 102242.	3.7	7
15	Workforce Scheduling with Order-Picking Assignments in Distribution Facilities. Transportation Science, 2021, 55, 725-746.	2.6	10
16	Robotic Sorting Systems: Performance Estimation and Operating Policies Analysis. Transportation Science, 2021, 55, 1430-1455.	2.6	19
17	Planning and control of autonomous mobile robots for intralogistics: Literature review and research agenda. European Journal of Operational Research, 2021, 294, 405-426.	3.5	235
18	An evaluation of cross-efficiency methods: With an application to warehouse performance. Applied Mathematics and Computation, 2021, 406, 126261.	1.4	7

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19	Inventory allocation in robotic mobile fulfillment systems. ISE Transactions, 2020, 52, 1-17.	1.6	66
20	Container terminal layout design: transition and future. Maritime Economics and Logistics, 2020, 22, 610-639.	2.0	45
21	Capacity Analysis of Sequential Zone Picking Systems. Operations Research, 2020, 68, 161-179.	1.2	21
22	Performance estimation of a passing-crane automated storage and retrieval system. International Journal of Production Research, 2020, , 1-21.	4.9	2
23	Modeling and Design of Container Terminal Operations. Operations Research, 2020, 68, 686-715.	1.2	34
24	Forward-reserve storage strategies with order picking: When do they pay off?. ISE Transactions, 2020, 52, 961-976.	1.6	9
25	Editorial: Online-to-offline ecommerce operations management (EOM). Transportation Research, Part E: Logistics and Transportation Review, 2020, 138, 101920.	3.7	8
26	Optimal Stack Layout Configurations at Automated Container Terminals Using Queuing Network Models. Operations Research/ Computer Science Interfaces Series, 2020, , 437-461.	0.3	1
27	Special Issue of <i>Production and Operations Management Journal</i> â€œManaging Autonomous and IoTâ€driven Intralogistics Operationsâ€ Production and Operations Management, 2020, 29, 2877-2878.	2.1	0
28	Warehousing in the e-commerce era: A survey. European Journal of Operational Research, 2019, 277, 396-411.	3.5	348
29	Optimizing product allocation in a polling-based milkrun picking system. ISE Transactions, 2019, 51, 486-500.	1.6	8
30	Robotized and Automated Warehouse Systems: Review and Recent Developments. Transportation Science, 2019, 53, 917-945.	2.6	274
31	Decision rules for robotic mobile fulfillment systems. Operations Research Perspectives, 2019, 6, 100128.	1.2	51
32	Vertical Expansion: A Solution for Future Container Terminals. Transportation Science, 2019, 53, 1235-1251.	2.6	9
33	Design, Modeling, and Analysis of Vertical Robotic Storage and Retrieval Systems. Transportation Science, 2019, 53, 1213-1234.	2.6	32
34	Integrated scheduling and assignment of trucks at unit-load cross-dock terminals with mixed service mode dock doors. European Journal of Operational Research, 2019, 278, 752-771.	3.5	35
35	Sequencing storage and retrieval requests in a container block with multiple open locations. Transportation Research, Part E: Logistics and Transportation Review, 2019, 125, 261-284.	3.7	17
36	Designing efficient order picking systems: The effect of real-life features on the relationship among planning problems. Transportation Research, Part E: Logistics and Transportation Review, 2019, 125, 47-73.	3.7	40

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37	Shared Capacity Routing Problem ~ An omni-channel retail study. European Journal of Operational Research, 2019, 273, 731-739.	3.5	40
38	Robot-storage zone assignment strategies in mobile fulfillment systems. Transportation Research, Part E: Logistics and Transportation Review, 2019, 122, 119-142.	3.7	95
39	Integrated storage-order picking systems: Technology, performance models, and design insights. European Journal of Operational Research, 2019, 274, 947-965.	3.5	49
40	Optimal design and planning for compact automated parking systems. European Journal of Operational Research, 2019, 273, 948-967.	3.5	20
41	Evaluating battery charging and swapping strategies in a robotic mobile fulfillment system. European Journal of Operational Research, 2018, 267, 733-753.	3.5	90
42	Solving semi-open queuing networks with time-varying arrivals: An application in container terminal landside operations. European Journal of Operational Research, 2018, 267, 855-876.	3.5	39
43	Travel time models for split-platform automated storage and retrieval systems. International Journal of Production Economics, 2018, 197, 197-214.	5.1	19
44	Stochastic modeling of unloading and loading operations at a container terminal using automated lifting vehicles. European Journal of Operational Research, 2018, 266, 895-910.	3.5	56
45	Designing efficient order picking systems by combining planning problems: State-of-the-art classification and review. European Journal of Operational Research, 2018, 267, 1-15.	3.5	205
46	Survival of the fittest: the impact of fit between warehouse management structure and warehouse context on warehouse performance. International Journal of Production Research, 2018, 56, 120-139.	4.9	19
47	Service investment for online retailers with social media~Does it pay off?. Transportation Research, Part E: Logistics and Transportation Review, 2018, 118, 606-628.	3.7	18
48	Conveyor Merges in Zone Picking Systems: A Tractable and Accurate Approximate Model. Transportation Science, 2018, 52, 1428-1443.	2.6	6
49	Worth the wait? How restaurant waiting time influences customer behavior and revenue. Journal of Operations Management, 2018, 63, 59-78.	3.3	62
50	Operating Policies in Robotic Compact Storage and Retrieval Systems. Transportation Science, 2018, 52, 788-811.	2.6	32
51	Determining time windows in urban freight transport: A city cooperative approach. Transportation Research, Part E: Logistics and Transportation Review, 2018, 118, 34-50.	3.7	25
52	Automated and Robotic Warehouses: Developments and Research Opportunities. , 2018, 38, 33.		27
53	Polynomial Time Algorithms to Minimize Total Travel Time in a Two-Depot Automated Storage/Retrieval System. Transportation Science, 2017, 51, 19-33.	2.6	35
54	A cooperative quay crane-based stochastic model to estimate vessel handling time. Flexible Services and Manufacturing Journal, 2017, 29, 97-124.	1.9	15

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55	Scheduling Trucks in a Cross-Dock with Mixed Service Mode Dock Doors. <i>Transportation Science</i> , 2017, 51, 112-131.	2.6	37
56	Managing warehouse efficiency and worker discomfort through enhanced storage assignment decisions. <i>International Journal of Production Research</i> , 2017, 55, 6407-6422.	4.9	57
57	Optimal stack layout in a sea container terminal with automated lifting vehicles. <i>International Journal of Production Research</i> , 2017, 55, 3747-3765.	4.9	24
58	Optimal two-class-based storage in a live-cube compact storage system. <i>IIE Transactions</i> , 2017, 49, 653-668.	1.6	30
59	Response time analysis of a live-cube compact storage system with two storage classes. <i>IIE Transactions</i> , 2017, 49, 461-480.	1.6	26
60	Maritime and container logistics. <i>Flexible Services and Manufacturing Journal</i> , 2017, 29, 1-3.	1.9	3
61	Special Issue of <i>Transportation Science</i> on Facility Logistics. <i>Transportation Science</i> , 2017, 51, 1-2.	2.6	2
62	Utilizing individual picker skills to improve order batching in a warehouse. <i>European Journal of Operational Research</i> , 2017, 263, 888-899.	3.5	62
63	The analysis of batch sojourn-times in polling systems. <i>Queueing Systems</i> , 2017, 85, 313-335.	0.6	4
64	A stochastic model for the throughput analysis of passing dual yard cranes. <i>Computers and Operations Research</i> , 2017, 87, 40-51.	2.4	17
65	Modelling load retrievals in puzzle-based storage systems. <i>International Journal of Production Research</i> , 2017, 55, 6423-6435.	4.9	37
66	Warehouse design and management. <i>International Journal of Production Research</i> , 2017, 55, 6327-6330.	4.9	60
67	Modeling, Analysis, and Design Insights for Shuttle-Based Compact Storage Systems. <i>Transportation Science</i> , 2017, 51, 269-295.	2.6	81
68	Estimating performance in a Robotic Mobile Fulfillment System. <i>European Journal of Operational Research</i> , 2017, 256, 976-990.	3.5	164
69	Collaborative solutions for inter terminal transport. <i>International Journal of Production Research</i> , 2017, 55, 6527-6546.	4.9	29
70	Determinants of safe and productive truck driving: Empirical evidence from long-haul cargo transport. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , 2017, 97, 113-131.	3.7	34
71	Small is Beautiful: A Framework for Evaluating and Optimizing Live-Cube Compact Storage Systems. <i>Transportation Science</i> , 2017, 51, 34-51.	2.6	56
72	Aligning Order Picking Methods, Incentive Systems, and Regulatory Focus to Increase Performance. <i>Production and Operations Management</i> , 2016, 25, 1363-1376.	2.1	37

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73	Safety Does Not Happen by Accident: Antecedents To A Safer Warehouse. <i>Production and Operations Management</i> , 2016, 25, 1377-1390.	2.1	27
74	Modeling parallel movement of lifts and vehicles in tier-captive vehicle-based warehousing systems. <i>European Journal of Operational Research</i> , 2016, 254, 51-67.	3.5	85
75	Designing self-storage warehouses with customer choice. <i>International Journal of Production Research</i> , 2016, 54, 3080-3104.	4.9	12
76	Sea container terminals: New technologies and OR models. <i>Maritime Economics and Logistics</i> , 2016, 18, 103-140.	2.0	128
77	Increasing the revenue of self-storage warehouses by optimizing order scheduling. <i>European Journal of Operational Research</i> , 2016, 252, 69-78.	3.5	9
78	Exploring the role of picker personality in predicting picking performance with pick by voice, pick to light and RF-terminal picking. <i>International Journal of Production Research</i> , 2016, 54, 2260-2274.	4.9	70
79	Impact of required storage space on storage policy performance in a unit-load warehouse. <i>International Journal of Production Research</i> , 2016, 54, 2405-2418.	4.9	40
80	A non-linear traffic flow-based queuing model to estimate container terminal throughput with AGVs. <i>International Journal of Production Research</i> , 2016, 54, 472-493.	4.9	52
81	Class-Based Storage with a Finite Number of Items: Using More Classes is not Always Better. <i>Production and Operations Management</i> , 2015, 24, 1235-1247.	2.1	59
82	Making the Right Pick: Aligning Order Picking Methods, Incentive Systems and Regulatory Focus to Increase Picking Performance. <i>IFAC-PapersOnLine</i> , 2015, 48, 585.	0.5	1
83	Storing Fresh Produce for Fast Retrieval in an Automated Compact Cross-Dock System. <i>Production and Operations Management</i> , 2015, 24, 1266-1284.	2.1	53
84	Scheduling Twin Yard Cranes in a Container Block. <i>Transportation Science</i> , 2015, 49, 686-705.	2.6	91
85	Serving the world: papers from the 19th EurOMA/4th P&OM World Conference in Amsterdam. <i>International Journal of Operations and Production Management</i> , 2015, 35, .	3.5	0
86	State of the Practice: A Review of the Application of OR/MS in Freight Transportation. <i>Interfaces</i> , 2014, 44, 535-554.	1.6	50
87	A novel approach for designing rental vehicle repositioning strategies. <i>IIE Transactions</i> , 2014, 46, 948-967.	2.1	12
88	An exact method for scheduling a yard crane. <i>European Journal of Operational Research</i> , 2014, 235, 431-447.	3.5	70
89	A fast simulated annealing method for batching precedence-constrained customer orders in a warehouse. <i>European Journal of Operational Research</i> , 2014, 236, 968-977.	3.5	98
90	A decision-tree stacking heuristic minimising the expected number of reshuffles at a container terminal. <i>International Journal of Production Research</i> , 2014, 52, 2592-2611.	4.9	52

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91	Non-dominated Time-Window Policies in City Distribution. <i>Production and Operations Management</i> , 2013, 22, 739-751.	2.1	28
92	Organizing warehouse management. <i>International Journal of Operations and Production Management</i> , 2013, 33, 1230-1256.	3.5	64
93	On the suboptimality of full turnover-based storage. <i>International Journal of Production Research</i> , 2013, 51, 1635-1647.	4.9	18
94	Increasing the Revenue of Self-Storage Warehouses by Facility Design. <i>Production and Operations Management</i> , 2013, 22, 555-570.	2.1	13
95	Storage policies and optimal shape of a storage system. <i>International Journal of Production Research</i> , 2013, 51, 6891-6899.	4.9	34
96	Call for Papers "Focused Issue of <i>Transportation Science</i> on Facility Logistics. <i>Transportation Science</i> , 2013, 47, 129-129.	2.6	0
97	Sequencing heuristics for storing and retrieving unit loads in 3D compact automated warehousing systems. <i>IIE Transactions</i> , 2012, 44, 69-87.	2.1	51
98	Determining the number of zones in a pick-and-sort order picking system. <i>International Journal of Production Research</i> , 2012, 50, 757-771.	4.9	75
99	Accidents happen: The influence of safety-specific transformational leadership, safety consciousness, and hazard reducing systems on warehouse accidents. <i>Journal of Operations Management</i> , 2011, 29, 753-765.	3.3	154
100	A review on stochastic models and analysis of warehouse operations. <i>Logistics Research</i> , 2011, 3, 191-205.	1.6	63
101	Forecasting demand for single-period products: A case study in the apparel industry. <i>European Journal of Operational Research</i> , 2011, 211, 139-147.	3.5	45
102	Enhancing performance in order picking processes by dynamic storage systems. <i>International Journal of Production Research</i> , 2010, 48, 4785-4806.	4.9	25
103	Performance evaluation of dynamic scheduling approaches in vehicle-based internal transport systems. <i>International Journal of Production Research</i> , 2010, 48, 7219-7242.	4.9	17
104	A Flexible Evaluative Framework for Order Picking Systems. <i>Production and Operations Management</i> , 2010, 19, 70-82.	2.1	42
105	On using DEA for benchmarking container terminals. <i>International Journal of Operations and Production Management</i> , 2009, 29, 1140-1155.	3.5	39
106	Evaluating order throughput time in 2-block warehouses with time window batching. <i>International Journal of Production Economics</i> , 2009, 121, 654-664.	5.1	87
107	The impact of order batching and picking area zoning on order picking system performance. <i>European Journal of Operational Research</i> , 2009, 198, 480-490.	3.5	129
108	Delivering Goods in Urban Areas: How to Deal with Urban Policy Restrictions and the Environment. <i>Transportation Science</i> , 2009, 43, 211-227.	2.6	147

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109	Optimal zone boundaries for two-class-based compact three-dimensional automated storage and retrieval systems. IIE Transactions, 2009, 41, 194-208.	2.1	75
110	Designing an optimal turnover-based storage rack for a 3D compact automated storage and retrieval system. International Journal of Production Research, 2009, 47, 1551-1571.	4.9	76
111	Approximate Optimal Order Batch Sizes in a Parallel aisle Warehouse. Lecture Notes in Economics and Mathematical Systems, 2009, , 175-194.	0.3	1
112	Benchmarking and Monitoring International Warehouse Operations in Europe. Production and Operations Management, 2008, 17, 175-183.	2.1	43
113	Optimal storage rack design for a 3-dimensional compact AS/RS. International Journal of Production Research, 2008, 46, 1495-1514.	4.9	105
114	Performance approximation and design of pick-and-pass order picking systems. IIE Transactions, 2008, 40, 1054-1069.	2.1	35
115	A polling-based dynamic order picking system for online retailers. IIE Transactions, 2008, 40, 1070-1082.	2.1	75
116	Minimizing makespan and throughput times at Aalsmeer flower auction. Journal of the Operational Research Society, 2008, 59, 1182-1190.	2.1	22
117	Travel time estimation and order batching in a 2-block warehouse. European Journal of Operational Research, 2007, 176, 374-388.	3.5	119
118	Design and control of warehouse order picking: A literature review. European Journal of Operational Research, 2007, 182, 481-501.	3.5	1,323
119	Exploring retailers'™ sensitivity to local sustainability policies. Journal of Operations Management, 2007, 25, 1103-1122.	3.3	113
120	Supply-Chain Culture Clashes in Europe. Pitfalls in Japanese Service Operations. Supply Chain Forum, 2006, 7, 60-68.	2.7	5
121	Factory gate pricing: An analysis of the Dutch retail distribution. European Journal of Operational Research, 2006, 174, 1950-1967.	3.5	32
122	A review of design and control of automated guided vehicle systems. European Journal of Operational Research, 2006, 171, 1-23.	3.5	343
123	The distribution-free newsboy problem with resalable returns. International Journal of Production Economics, 2005, 97, 329-342.	5.1	113
124	Minimum Vehicle Fleet Size Under Time-Window Constraints at a Container Terminal. Transportation Science, 2005, 39, 249-260.	2.6	81
125	American, Asian and third-party international warehouse operations in Europe. International Journal of Operations and Production Management, 2005, 25, 762-780.	3.5	32
126	Travel distance estimation and storage zone optimization in a 2-block class-based storage strategy warehouse. International Journal of Production Research, 2005, 43, 3561-3581.	4.9	104



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127	On-line dispatching rules for vehicle-based internal transport systems. International Journal of Production Research, 2005, 43, 1711-1728.	4.9	48
128	Travel Distance Estimation in Single-block ABC- Storage Strategy Warehouses. Lecture Notes in Economics and Mathematical Systems, 2005, , 185-200.	0.3	4
129	Testing and classifying vehicle dispatching rules in three real-world settings. Journal of Operations Management, 2004, 22, 369-386.	3.3	61
130	Improving Order-Picking Response Time at Ankor's Warehouse. Interfaces, 2004, 34, 303-313.	1.6	64
131	Distribution strategies for online retailers. IEEE Transactions on Engineering Management, 2003, 50, 448-457.	2.4	64
132	Transshipment of containers at a container terminal: An overview. European Journal of Operational Research, 2003, 147, 1-16.	3.5	593
133	Return handling: an exploratory study with nine retailer warehouses. International Journal of Retail and Distribution Management, 2002, 30, 407-421.	2.7	56
134	Distribution structures for food home shopping. International Journal of Physical Distribution and Logistics Management, 2002, 32, 362-380.	4.4	66
135	Linking warehouse complexity to warehouse planning and control structure. International Journal of Physical Distribution and Logistics Management, 2002, 32, 381-395.	4.4	80
136	Routing order pickers in a warehouse with a middle aisle. European Journal of Operational Research, 2001, 133, 32-43.	3.5	234
137	Determination of the number of automated guided vehicles required at a semi-automated container terminal. Journal of the Operational Research Society, 2001, 52, 409-417.	2.1	92
138	Routing methods for warehouses with multiple cross aisles. International Journal of Production Research, 2001, 39, 1865-1883.	4.9	265
139	Routing orderpickers in a warehouse: a comparison between optimal and heuristic solutions. IIE Transactions, 1999, 30, 469-480.	2.1	5
140	Efficient orderbatching methods in warehouses. International Journal of Production Research, 1999, 37, 1479-1504.	4.9	203
141	Reduction of Walking Time in the Distribution Center of De Bijenkorf. Lecture Notes in Economics and Mathematical Systems, 1999, , 215-234.	0.3	30
142	Routing orderpickers in a warehouse: a comparison between optimal and heuristic solutions. IIE Transactions, 1998, 30, 469-480.	2.1	159
143	When to apply optimal or heuristic routing of orderpickers. Lecture Notes in Economics and Mathematical Systems, 1998, , 375-401.	0.3	8
144	Performance approximation of pick-to-belt orderpicking systems. European Journal of Operational Research, 1994, 72, 558-573.	3.5	63

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145	On the reversibility of manufacturing networks. Journal of Mathematical Analysis and Applications, 1990, 145, 309-327.	0.5	3
146	Local and integral control of workload. International Journal of Production Research, 1989, 27, 43-52.	4.9	12
147	Approximate analysis of production systems. European Journal of Operational Research, 1988, 37, 214-226.	3.5	7
148	An improved algorithm to approximate the behaviour of flow lines. International Journal of Production Research, 1988, 26, 691-700.	4.9	14
149	Approximation of Flow Lines with Integrally Controlled Buffers. IIE Transactions, 1988, 20, 374-381.	2.1	7
150	Estimation of line efficiency by aggregation. International Journal of Production Research, 1987, 25, 615-625.	4.9	56
151	On The Equivalence Of Multi-Stage Production Lines And Two-Stage Lines. IIE Transactions, 1987, 19, 351-354.	2.1	4
152	Capacity analysis of two-stage production lines with many products. Engineering Costs and Production Economics, 1987, 12, 175-186.	0.2	6
153	Risk sensitivity, independence of irrelevant alternatives and continuity of bargaining solutions. Mathematical Social Sciences, 1983, 4, 295-300.	0.3	13
154	E-business models for reverse logistics: contributions and challenges. , 0, , .		9