

# Geert-Jan van Houtum

## List of Publications by Year in descending order

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100  
papers

3,197  
citations

182225

30  
h-index

198040

52  
g-index

105  
all docs

105  
docs citations

105  
times ranked

2142  
citing authors

#	ARTICLE	IF	CITATIONS
1	Age-based maintenance under population heterogeneity: Optimal exploration and exploitation. European Journal of Operational Research, 2022, 301, 1007-1020.	3.5	8
2	Information acquisition for service contract quotations made by repair shops. European Journal of Operational Research, 2022, , .	3.5	0
3	Machine tools with hidden defects: Optimal usage for maximum lifetime value. IISE Transactions, 2021, 53, 74-87.	1.6	4
4	Printing Spare Parts at Remote Locations: Fulfilling the Promise of Additive Manufacturing. Production and Operations Management, 2021, 30, 1615-1632.	2.1	39
5	Improving Ambulance Dispatching with Machine Learning and Simulation. Lecture Notes in Computer Science, 2021, , 302-318.	1.0	3
6	Decisions for information or information for decisions? Optimizing information gathering in decision-intensive processes. Decision Support Systems, 2021, 151, 113632.	3.5	7
7	Spare parts inventory control under a fixed-term contract with a long-down constraint. International Journal of Production Economics, 2020, 219, 123-137.	5.1	10
8	Capacity assignment in repair shops with high material uncertainty. International Journal of Production Economics, 2020, 221, 107484.	5.1	2
9	Capacity and Inventory Management: Review, Trends, and Projections. Manufacturing and Service Operations Management, 2020, 22, 36-46.	2.3	49
10	On a method to improve your service BOMs within spare parts management. International Journal of Production Economics, 2020, 221, 107466.	5.1	7
11	Maintenance cost evaluation for heterogeneous complex systems under continuous monitoring. Reliability Engineering and System Safety, 2020, 200, 106745.	5.1	9
12	Which Spare Parts Service Measure to Choose for a Front-End Wafer Fab?. IEEE Transactions on Semiconductor Manufacturing, 2020, 33, 504-510.	1.4	3
13	Dynamic dispatching and repositioning policies for fast-response service networks. European Journal of Operational Research, 2020, 285, 583-598.	3.5	7
14	Core Nonemptiness of Stratified Pooling Games: A Structured Markov Decision Process Approach. Mathematics of Operations Research, 2020, 45, 1445-1465.	0.8	4
15	Reducing risks in spare parts service contracts with a long downtime constraint. IISE Transactions, 2020, , 1-14.	1.6	2
16	Optimal lateral transshipment policies for a two location inventory problem with multiple demand classes. European Journal of Operational Research, 2019, 272, 481-495.	3.5	34
17	The impact of an emergency warehouse in a two-echelon spare parts network. European Journal of Operational Research, 2019, 276, 983-997.	3.5	7
18	Maintenance Service Logistics. Lecture Notes in Logistics, 2019, , 493-517.	0.6	5

#	ARTICLE	IF	CITATIONS
19	Pooling of critical, low-utilization resources with unavailability. OR Spectrum, 2018, 40, 233-263.	2.1	2
20	Traditional or Additive Manufacturing? Assessing Component Design Options through Lifecycle Cost Analysis. European Journal of Operational Research, 2018, 270, 570-585.	3.5	84
21	Integrated maintenance and spare part optimization for moving assets. IIE Transactions, 2018, 50, 230-245.	1.6	24
22	A TWO-ECHELON SPARE PARTS NETWORK WITH LATERAL AND EMERGENCY SHIPMENTS: A PRODUCT-FORM APPROXIMATION. Probability in the Engineering and Informational Sciences, 2018, 32, 536-555.	0.6	3
23	Reliability optimization for series systems under uncertain component failure rates in the design phase. International Journal of Production Economics, 2018, 196, 163-175.	5.1	17
24	Using imperfect advance demand information in lost-sales inventory systems with the option of returning inventory. IIE Transactions, 2018, 50, 246-264.	1.6	29
25	Dynamic control in multi-item production/inventory systems. OR Spectrum, 2017, 39, 165-191.	2.1	6
26	A note on maximal covering location games. Operations Research Letters, 2017, 45, 98-103.	0.5	7
27	The asymptotic hazard rate of sums of discrete random variables. Statistics and Probability Letters, 2017, 125, 171-173.	0.4	2
28	Maintenance optimization under non-constant probabilities of imperfect inspections. Reliability Engineering and System Safety, 2017, 165, 115-123.	5.1	42
29	A survey of maintenance and service logistics management: Classification and research agenda from a maritime sector perspective. Computers and Operations Research, 2017, 85, 184-205.	2.4	45
30	Optimizing usage and maintenance decisions for $k$ -out-of- $n$ systems of moving assets. Naval Research Logistics, 2017, 64, 418-434.	1.4	13
31	A condition-based maintenance model for a single component in a system with scheduled and unscheduled downs. International Journal of Production Economics, 2017, 193, 365-380.	5.1	24
32	Condition based spare parts supply. Reliability Engineering and System Safety, 2017, 168, 240-248.	5.1	33
33	Maintenance optimization for a Markovian deteriorating system with population heterogeneity. IIE Transactions, 2017, 49, 96-109.	1.6	24
34	Probabilistic resource pooling games. Naval Research Logistics, 2017, 64, 531-546.	1.4	6
35	Repairable Stocking and Expediting in a Fluctuating Demand Environment: Optimal Policy and Heuristics. Operations Research, 2016, 64, 1285-1301.	1.2	23
36	Joint optimization of condition-based maintenance and production lot-sizing. European Journal of Operational Research, 2016, 253, 94-107.	3.5	63

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37	Spare Parts Inventory Control under System Availability Constraints. Profiles in Operations Research, 2015, , .	0.3	44
38	A condition-based maintenance policy for multi-component systems with a high maintenance setup cost. OR Spectrum, 2015, 37, 1007-1035.	2.1	64
39	Joint queue length distribution of multi-class, single-server queues with preemptive priorities. Queueing Systems, 2015, 81, 379-395.	0.6	16
40	Resource Pooling and Cost Allocation Among Independent Service Providers. Operations Research, 2015, 63, 476-488.	1.2	51
41	On the upgrading policy after the redesign of a component for reliability improvement. European Journal of Operational Research, 2015, 244, 867-880.	3.5	15
42	A new approximate evaluation method for two-echelon inventory systems with emergency shipments. Annals of Operations Research, 2015, 224, 147-169.	2.6	20
43	Two-Echelon System. Profiles in Operations Research, 2015, , 127-158.	0.3	0
44	Service Differentiation. Profiles in Operations Research, 2015, , 71-95.	0.3	1
45	Multi-location System with Lateral Transshipments. Profiles in Operations Research, 2015, , 97-125.	0.3	0
46	Static Repair Priorities. Profiles in Operations Research, 2015, , 185-208.	0.3	0
47	DOMAIN EXTENSIONS OF THE ERLANG LOSS FUNCTION: THEIR SCALABILITY AND ITS APPLICATIONS TO COOPERATIVE GAMES. Probability in the Engineering and Informational Sciences, 2014, 28, 473-488.	0.6	11
48	Switching Transport Modes to Meet Voluntary Carbon Emission Targets. Transportation Science, 2014, 48, 592-608.	2.6	90
49	Optimal policies for a delay time model with postponed replacement. European Journal of Operational Research, 2014, 232, 186-197.	3.5	59
50	System-oriented inventory models for spare parts. Surveys in Operations Research and Management Science, 2014, 19, 34-55.	3.1	119
51	Near-optimal heuristics to set base stock levels in a two-echelon distribution network. International Journal of Production Economics, 2013, 143, 546-552.	5.1	12
52	Dynamic demand fulfillment in spare parts networks with multiple customer classes. European Journal of Operational Research, 2013, 228, 367-380.	3.5	37
53	Reducing costs of repairable inventory supply systems via dynamic scheduling. International Journal of Production Economics, 2013, 143, 478-488.	5.1	26
54	Redundancy Optimization for Critical Components in High-Availability Technical Systems. Operations Research, 2013, 61, 244-264.	1.2	27

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55	Optimal allocation policy for a multi-location inventory system with a quick response warehouse. <i>Operations Research Letters</i> , 2013, 41, 305-310.	0.5	17
56	Newsvendor characterizations for one-warehouse multi-retailer inventory systems with discrete demand under the balance assumption. <i>Central European Journal of Operations Research</i> , 2013, 21, 541-559.	1.1	8
57	Inventory rationing for a system with heterogeneous customer classes. <i>Flexible Services and Manufacturing Journal</i> , 2012, 26, 344.	1.9	6
58	Design for availability: A holistic approach to create value for manufacturers and customers of capital goods. <i>Journal of Systems Science and Systems Engineering</i> , 2012, 21, 403-421.	0.8	5
59	Inventory pooling games for expensive, low-demand spare parts. <i>Naval Research Logistics</i> , 2012, 59, 311-324.	1.4	30
60	Approximate evaluation of multi-location inventory models with lateral transshipments and hold back levels. <i>European Journal of Operational Research</i> , 2012, 218, 624-635.	3.5	30
61	The stochastic economic lot scheduling problem: A survey. <i>European Journal of Operational Research</i> , 2011, 210, 1-9.	3.5	76
62	A simple and accurate approximation for the order fill rates in lost-sales Assemble-to-Order systems. <i>International Journal of Production Economics</i> , 2011, 133, 95-104.	5.1	16
63	Separate tools or tool kits: An exploratory study of engineers' preferences. <i>International Journal of Production Economics</i> , 2010, 125, 173-184.	5.1	9
64	Optimization of component reliability in the design phase of capital goods. <i>European Journal of Operational Research</i> , 2010, 205, 615-624.	3.5	79
65	Improving Supply Chain Performance: Real-Time Demand Information and Flexible Deliveries. <i>Manufacturing and Service Operations Management</i> , 2010, 12, 430-448.	2.3	19
66	A STATE-DEPENDENT POLLING MODEL WITH k-LIMITED SERVICE. <i>Probability in the Engineering and Informational Sciences</i> , 2009, 23, 385-408.	0.6	20
67	REDUCING COSTS OF SPARE PARTS SUPPLY SYSTEMS VIA STATIC PRIORITIES. <i>Asia-Pacific Journal of Operational Research</i> , 2009, 26, 559-585.	0.9	34
68	A numerical study on the effect of the balance assumption in one-warehouse multi-retailer inventory systems. <i>Flexible Services and Manufacturing Journal</i> , 2009, 21, 114-147.	1.9	18
69	Approximate evaluation of order fill rates for an inventory system of service tools. <i>International Journal of Production Economics</i> , 2009, 118, 339-351.	5.1	13
70	Monotonicity and supermodularity results for the Erlang loss system. <i>Operations Research Letters</i> , 2009, 37, 265-268.	0.5	7
71	A new partial pooling structure for spare parts networks. <i>European Journal of Operational Research</i> , 2009, 199, 908-921.	3.5	105
72	Newsvendor equations for optimal reorder levels of serial inventory systems with fixed batch sizes. <i>Operations Research Letters</i> , 2008, 36, 551-556.	0.5	4

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73	Service differentiation in spare parts inventory management. Journal of the Operational Research Society, 2008, 59, 946-955.	2.1	33
74	Optimal Control of Serial Inventory Systems with Fixed Replenishment Intervals. Operations Research, 2007, 55, 674-687.	1.2	45
75	Cost optimization in the lost sales inventory model with multiple demand classes. Operations Research Letters, 2007, 35, 493-502.	0.5	43
76	Effect of commonality on spare parts provisioning costs for capital goods. International Journal of Production Economics, 2007, 108, 221-227.	5.1	33
77	Efficient heuristics for two-echelon spare parts inventory systems with an aggregate mean waiting time constraint per local warehouse. OR Spectrum, 2007, 29, 699-722.	2.1	41
78	Multi-item spare parts systems with lateral transshipments and waiting time constraints. European Journal of Operational Research, 2006, 171, 1071-1093.	3.5	112
79	Mean value analysis for polling systems. Queueing Systems, 2006, 54, 35-44.	0.6	57
80	Performance analysis of parallel identical machines with a generalized shortest queue arrival mechanism. , 2006, , 289-305.		0
81	Analysis of a Decentralized Supply Chain Under Partial Cooperation. Manufacturing and Service Operations Management, 2005, 7, 229-247.	2.3	22
82	Simple, efficient heuristics for multi-item multi-location spare parts systems with lateral transshipments and waiting time constraints. Journal of the Operational Research Society, 2005, 56, 1419-1430.	2.1	54
83	Exact and Approximate Analysis of Multi-Echelon, Multi-Indenture Spare Parts Systems with Commonality. Profiles in Operations Research, 2003, , 143-176.	0.3	14
84	Performance analysis of parallel identical machines with a generalized shortest queue arrival mechanism. OR Spectrum, 2001, 23, 411-427.	2.1	21
85	Spare parts management at complex technology-based organizations: An agenda for research. International Journal of Production Economics, 2001, 71, 177-193.	5.1	61
86	Spare parts management for technical systems: resupply of spare parts under limited budgets. IIE Transactions, 2000, 32, 1013-1026.	2.1	28
87	On the relationship between cost and service models for general inventory systems. Statistica Neerlandica, 2000, 54, 127-147.	0.9	43
88	Warehouse design and control: Framework and literature review. European Journal of Operational Research, 2000, 122, 515-533.	3.5	446
89	Spare parts management for technical systems: resupply of spare parts under limited budgets. IIE Transactions, 2000, 32, 1013-1026.	2.1	5
90	Capacity analysis of an automated kit transportation system. Annals of Operations Research, 2000, 93, 423-446.	2.6	5

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91	Bounds for performance characteristics: a systematic approach via cost structures. Stochastic Models, 1998, 14, 205-224.	0.3	47
92	On First-Come First-Served Versus Random Service Discipline in Multiclass Closed Queueing Networks. Probability in the Engineering and Informational Sciences, 1997, 11, 313-326.	0.6	2
93	The symmetric longest queue system. Stochastic Models, 1997, 13, 105-120.	0.3	15
94	Incomplete convolutions in production and inventory models. OR Spectrum, 1997, 19, 097.	2.1	6
95	Materials coordination in stochastic multi-echelon systems. European Journal of Operational Research, 1996, 95, 1-23.	3.5	128
96	On multi-stage production/inventory systems under stochastic demand. International Journal of Production Economics, 1994, 35, 391-400.	5.1	18
97	Upper and lower bounds for the waiting time in the symmetric shortest queue system. Annals of Operations Research, 1994, 48, 197-217.	2.6	75
98	Computational procedures for stochastic multi-echelon production systems. International Journal of Production Economics, 1991, 23, 223-237.	5.1	53
99	Maintenance spare parts planning and control: a framework for control and agenda for future research. Production Planning and Control, 0, , 1-20.	5.8	36
100	Spare Parts Inventory Control under a Fixed-Term Contract with a Long-Down Constraint. SSRN Electronic Journal, 0, , .	0.4	0