

# Rainer Kolisch

## List of Publications by Year in descending order

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79  
papers

5,944  
citations

159525

30  
h-index

85498

71  
g-index

87  
all docs

87  
docs citations

87  
times ranked

2206  
citing authors

#	ARTICLE	IF	CITATIONS
1	Consistent vehicle routing with pickup decisions - Insights from sport academy training transfers. European Journal of Operational Research, 2022, 298, 337-350.	3.5	1
2	Solving the time-discrete winter runway scheduling problem: A column generation and constraint programming approach. European Journal of Operational Research, 2022, 299, 674-689.	3.5	4
3	A Decision Support System for Planning Portfolios of Supply Chain Improvement Projects in the Semiconductor Industry. Adaptation, Learning, and Optimization, 2022, , 193-212.	0.5	2
4	Exact Branch-Price-and-Cut for a Hospital Therapist Scheduling Problem with Flexible Service Locations and Time-Dependent Location Capacity. INFORMS Journal on Computing, 2022, 34, 1157-1175.	1.0	4
5	Should We All Work in Sprints? How Agile Project Management Improves Performance. Manufacturing and Service Operations Management, 2022, 24, 2293-2309.	2.3	3
6	A Data-Driven Approach for Baggage Handling Operations at Airports. Transportation Science, 2022, 56, 1179-1195.	2.6	0
7	Dynamic gate configurations at airports: A network optimization approach. European Journal of Operational Research, 2022, 301, 1133-1148.	3.5	2
8	Workforce capacity planning with hierarchical skills, long-term training, and random resignations. International Journal of Production Research, 2022, 60, 783-807.	4.9	5
9	Runway scheduling during winter operations. Omega, 2021, 102, 102325.	3.6	11
10	Maximization of Open Hospital Capacity under Shortage of SARS-CoV-2 Vaccines – An Open Access, Stochastic Simulation Tool. Vaccines, 2021, 9, 546.	2.1	5
11	Mathematical programming for nominating exchange students for international universities: The impact of stakeholders' objectives and fairness constraints on allocations. Socio-Economic Planning Sciences, 2021, 76, 100974.	2.5	1
12	The impact of flexibility on engineer-to-order production planning. International Journal of Production Economics, 2021, 239, 108183.	5.1	8
13	Strategic planning of new product introductions: Integrated planning of products and modules in the automotive industry. Omega, 2021, 105, 102515.	3.6	10
14	Column generation for vehicle routing problems with multiple synchronization constraints. European Journal of Operational Research, 2019, 272, 699-711.	3.5	30
15	The impact of medical documentation assistants on process performance measures in a surgical emergency department. European Journal of Medical Research, 2019, 24, 31.	0.9	6
16	Scheduling medical residents' training at university hospitals. European Journal of Operational Research, 2019, 274, 253-266.	3.5	11
17	Dynamic order acceptance and capacity planning in a stochastic multi-project environment with a bottleneck resource. International Journal of Production Research, 2018, 56, 459-475.	4.9	20
18	Human Behavior in Project Portfolio Selection: Insights from an Experimental Study. Decision Sciences, 2018, 49, 1061-1087.	3.2	23

#	ARTICLE	IF	CITATIONS
19	Hospital-wide therapist scheduling and routing: Exact and heuristic methods. IIE Transactions on Healthcare Systems Engineering, 2018, 8, 268-279.	1.2	6
20	Projektscheduling. , 2018, , 609-645.		0
21	Overutilization and underutilization of operating rooms - insights from behavioral health care operations management. Health Care Management Science, 2017, 20, 115-128.	1.5	33
22	A hybrid metaheuristic for resource-constrained project scheduling with flexible resource profiles. European Journal of Operational Research, 2017, 262, 262-273.	3.5	42
23	Column Generation for Outbound Baggage Handling at Airports. Transportation Science, 2017, 51, 1226-1241.	2.6	9
24	Optimizing Inbound Baggage Handling at Airports. Transportation Science, 2017, 51, 1210-1225.	2.6	13
25	Algorithmic Economics und Operations Research. , 2017, , 129-139.		0
26	Obtaining the optimal fleet mix: A case study about towing tractors at airports. Omega, 2016, 64, 102-114.	3.6	9
27	Improving Intensive Care Unit and Ward Utilization by Adapting Master Surgery Schedules. A & A Case Reports, 2016, 6, 172-180.	0.7	13
28	Editorial "Project Management and Scheduling" OR Spectrum, 2016, 38, 279-281.	2.1	0
29	An estimation of distribution algorithm and new computational results for the stochastic resource-constrained project scheduling problem. Flexible Services and Manufacturing Journal, 2015, 27, 585-605.	1.9	48
30	Shifts, Types, and Generation Schemes for Project Schedules. , 2015, , 3-16.		6
31	Machine Learning Approaches for Early DRG Classification and Resource Allocation. INFORMS Journal on Computing, 2015, 27, 718-734.	1.0	34
32	The dynamic replica placement problem with service levels in content delivery networks: a model and a simulated annealing heuristic. OR Spectrum, 2015, 37, 217-242.	2.1	15
33	Hierarchical Multi-skill Resource Assignment in the Telecommunications Industry. Production and Operations Management, 2014, 23, 489-503.	2.1	12
34	Profit impact of revenue management in the process industry. Journal of Revenue and Pricing Management, 2014, 13, 483-507.	0.7	8
35	Scheduling the hospital-wide flow of elective patients. European Journal of Operational Research, 2014, 233, 689-699.	3.5	65
36	Planning towing processes at airports more efficiently. Transportation Research, Part E: Logistics and Transportation Review, 2014, 70, 293-304.	3.7	40

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37	The resource-constrained project scheduling model of Bianco and Caramia: clarifications and an alternative model formulation. <i>Flexible Services and Manufacturing Journal</i> , 2014, 26, 454-459.	1.9	6
38	On the assessment of costs in a newsvendor environment: Insights from an experimental study. <i>Omega</i> , 2014, 43, 1-8.	3.6	24
39	Master surgery scheduling with consideration of multiple downstream units. <i>European Journal of Operational Research</i> , 2014, 239, 227-236.	3.5	110
40	MIP models for resource-constrained project scheduling with flexible resource profiles. <i>European Journal of Operational Research</i> , 2014, 239, 335-348.	3.5	89
41	Capacity allocation for demand of different customer-product-combinations with cancellations, no-shows, and overbooking when there is a sequential delivery of service. <i>Annals of Operations Research</i> , 2013, 206, 401-423.	2.6	33
42	Project management and scheduling. <i>Flexible Services and Manufacturing Journal</i> , 2013, 25, 1-5.	1.9	6
43	Implementation of revenue management in the process industry of North America and Europe. <i>Journal of Revenue and Pricing Management</i> , 2012, 11, 191-209.	0.7	13
44	Health care operations management. <i>OR Spectrum</i> , 2012, 34, 315-317.	2.1	5
45	Approximate dynamic programming for capacity allocation in the service industry. <i>European Journal of Operational Research</i> , 2012, 218, 239-250.	3.5	70
46	An efficient metaheuristic for integrated scheduling and staffing IT projects based on a generalized minimum cost flow network. <i>Naval Research Logistics</i> , 2012, 59, 111-127.	1.4	27
47	Scheduling and staffing multiple projects with a multi-skilled workforce. <i>OR Spectrum</i> , 2010, 32, 343-368.	2.1	151
48	Capacity Allocation for Demand of Different Customer-Product-Combinations with Cancellation, No-Shows, and Overbooking When There is a Sequential Delivery of Service. <i>SSRN Electronic Journal</i> , 2010, , .	0.4	5
49	Midterm scheduling of physicians with flexible shifts using branch and price. <i>IIE Transactions</i> , 2010, 43, 84-109.	2.1	59
50	Work assignment to and qualification of multi-skilled human resources under knowledge depreciation and company skill level targets. <i>International Journal of Production Research</i> , 2010, 48, 3759-3781.	4.9	70
51	Scheduling of Multiple R&D{Projects in a Dynamic and Stochastic Environment. , 2009, , 135-140.		3
52	Flexible shift scheduling of physicians. <i>Health Care Management Science</i> , 2009, 12, 285-305.	1.5	96
53	The performance of a generalized Baileyâ€“Welch rule for outpatient appointment scheduling under inpatient and emergency demand. <i>Health Care Management Science</i> , 2009, 12, 408-419.	1.5	47
54	Stand und Perspektiven des Einsatzes von Revenue Management in der Prozessindustrie. <i>Zeitschrift F¼r Planung Und Unternehmenssteuerung</i> , 2009, 20, 197-214.	0.3	10

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55	Providing radiology health care services to stochastic demand of different customer classes. OR Spectrum, 2008, 30, 375-395.	2.1	84
56	Experimental investigation of heuristics for resource-constrained project scheduling: An update. European Journal of Operational Research, 2006, 174, 23-37.	3.5	622
57	Selection and Scheduling of Pharmaceutical Research Projects. , 2006, , 321-344.		6
58	Just-in-Time Production of Large Assemblies Using Project Scheduling Models and Methods. , 2006, , 211-224.		0
59	Maximizing R&D Portfolio Value. Research Technology Management, 2005, 48, 33-39.	0.6	11
60	Integration of assembly and fabrication for make-to-order production. International Journal of Production Economics, 2000, 68, 287-306.	5.1	49
61	Integrated scheduling, assembly area- and part-assignment for large-scale, make-to-order assemblies. International Journal of Production Economics, 2000, 64, 127-141.	5.1	31
62	Experimental evaluation of state-of-the-art heuristics for the resource-constrained project scheduling problem. European Journal of Operational Research, 2000, 127, 394-407.	3.5	399
63	Numetrix/3 Production Scheduling. OR Spectrum, 2000, 22, 307-312.	2.1	9
64	Efficient methods for scheduling make-to-order assemblies under resource, assembly area and part availability constraints. International Journal of Production Research, 2000, 38, 207-228.	4.9	36
65	Heuristic Algorithms for the Resource-Constrained Project Scheduling Problem: Classification and Computational Analysis. Profiles in Operations Research, 1999, , 147-178.	0.3	233
66	Benchmark Instances for Project Scheduling Problems. Profiles in Operations Research, 1999, , 197-212.	0.3	67
67	Project Scheduling Under Partially Renewable Resource Constraints. Management Science, 1999, 45, 543-559.	2.4	75
68	Resource Allocation Capabilities of Commercial Project Management Software Packages. Interfaces, 1999, 29, 19-31.	1.6	37
69	Local search for nonpreemptive multi-mode resource-constrained project scheduling. IIE Transactions, 1997, 29, 987-999.	2.1	139
70	Local search for nonpreemptive multi-mode resource-constrained project scheduling. IIE Transactions, 1997, 29, 987-999.	2.1	64
71	PSPLIB - A project scheduling problem library. European Journal of Operational Research, 1997, 96, 205-216.	3.5	978
72	Adaptive search for solving hard project scheduling problems. Naval Research Logistics, 1996, 43, 23-40.	1.4	115

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73	Serial and parallel resource-constrained project scheduling methods revisited: Theory and computation. <i>European Journal of Operational Research</i> , 1996, 90, 320-333.	3.5	577
74	Efficient priority rules for the resource-constrained project scheduling problem. <i>Journal of Operations Management</i> , 1996, 14, 179-192.	3.3	227
75	Adaptive search for solving hard project scheduling problems. , 1996, 43, 23.		2
76	Semi-active, active, and non-delay schedules for the resource-constrained project scheduling problem. <i>European Journal of Operational Research</i> , 1995, 80, 94-102.	3.5	186
77	Characterization and Generation of a General Class of Resource-Constrained Project Scheduling Problems. <i>Management Science</i> , 1995, 41, 1693-1703.	2.4	515
78	Project Scheduling under Resource Constraints. , 1995, , .		133
79	Valuation of hospital resources: an optimization approach using clearing functions. <i>IIE Transactions on Healthcare Systems Engineering</i> , 0, , 1-18.	1.2	0