

# Jens Otto Brunner

## List of Publications by Year in descending order

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Version: 2024-02-01

45  
papers

1,364  
citations

430442

18  
h-index

377514

34  
g-index

50  
all docs

50  
docs citations

50  
times ranked

1121  
citing authors

#	ARTICLE	IF	CITATIONS
1	The use of Data Envelopment Analysis (DEA) in healthcare with a focus on hospitals. <i>Health Care Management Science</i> , 2019, 22, 245-286.	1.5	239
2	Material logistics in hospitals: A literature review. <i>Omega</i> , 2017, 69, 82-101.	3.6	128
3	State of the art in physician scheduling. <i>European Journal of Operational Research</i> , 2018, 265, 1-18.	3.5	111
4	Flexible shift scheduling of physicians. <i>Health Care Management Science</i> , 2009, 12, 285-305.	1.5	96
5	Operations research in intensive care unit management: a literature review. <i>Health Care Management Science</i> , 2018, 21, 1-24.	1.5	72
6	Fair optimization of fortnightly physician schedules with flexible shifts. <i>European Journal of Operational Research</i> , 2012, 219, 622-629.	3.5	69
7	Midterm scheduling of physicians with flexible shifts using branch and price. <i>IIE Transactions</i> , 2010, 43, 84-109.	2.1	59
8	Long term staff scheduling of physicians with different experience levels in hospitals using column generation. <i>Health Care Management Science</i> , 2011, 14, 189-202.	1.5	50
9	Case mix planning in hospitals: a review and future agenda. <i>Health Care Management Science</i> , 2017, 20, 207-220.	1.5	43
10	Planning towing processes at airports more efficiently. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , 2014, 70, 293-304.	3.7	40
11	Flexible weekly tour scheduling for postal service workers using a branch and price. <i>Journal of Scheduling</i> , 2013, 16, 129-149.	1.3	30
12	Duty and workstation rostering considering preferences and fairness: a case study at a department of anaesthesiology. <i>International Journal of Production Research</i> , 2015, 53, 7465-7487.	4.9	29
13	Online rescheduling of physicians in hospitals. <i>Flexible Services and Manufacturing Journal</i> , 2018, 30, 296-328.	1.9	24
14	Predicting intensive care unit bed occupancy for integrated operating room scheduling via neural networks. <i>Naval Research Logistics</i> , 2021, 68, 65-88.	1.4	23
15	Rescheduling of flights during ground delay programs with consideration of passenger and crew connections. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , 2014, 72, 236-252.	3.7	21
16	A column generation approach for the integrated shift and task scheduling problem of logistics assistants in hospitals. <i>European Journal of Operational Research</i> , 2017, 260, 316-334.	3.5	21
17	Defining biomarkers to predict symptoms in subjects with and without allergy under natural pollen exposure. <i>Journal of Allergy and Clinical Immunology</i> , 2020, 146, 583-594.e6.	1.5	21
18	Towards automatic airborne pollen monitoring: From commercial devices to operational by mitigating class-imbalance in a deep learning approach. <i>Science of the Total Environment</i> , 2021, 796, 148932.	3.9	20

#	ARTICLE	IF	CITATIONS
19	Pollen allergy and health behavior: patients trivializing their disease. <i>Aerobiologia</i> , 2019, 35, 327-341.	0.7	18
20	Hospital physicians can't get no long-term satisfaction – an indicator for fairness in preference fulfillment on duty schedules. <i>Health Care Management Science</i> , 2019, 22, 691-708.	1.5	16
21	Bounded flexibility in days-on and days-off scheduling. <i>Naval Research Logistics</i> , 2013, 60, 678-701.	1.4	15
22	Stabilized branch and price with dynamic parameter updating for discontinuous tour scheduling. <i>Computers and Operations Research</i> , 2014, 44, 137-145.	2.4	15
23	Analyzing economies of scale and scope in hospitals by use of case mix planning. <i>Health Care Management Science</i> , 2020, 23, 80-101.	1.5	15
24	Planning for Overtime: The Value of Shift Extensions in Physician Scheduling. <i>INFORMS Journal on Computing</i> , 2019, 31, 732-744.	1.0	13
25	Assessing the impact of uncertainty and the level of aggregation in case mix planning. <i>Omega</i> , 2020, 97, 102086.	3.6	13
26	Simulation-based evaluation of operating room management policies. <i>BMC Health Services Research</i> , 2021, 21, 271.	0.9	13
27	A robust framework for task-related resident scheduling. <i>European Journal of Operational Research</i> , 2019, 276, 656-675.	3.5	12
28	Detecting Airborne Pollen Using an Automatic, Real-Time Monitoring System: Evidence from Two Sites. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 2471.	1.2	12
29	Automated Classification of Airborne Pollen using Neural Networks. , 2019, 2019, 4474-4478.		11
30	Tactical scheduling of surgeries to level bed utilization in the intensive care unit. <i>IISE Transactions on Healthcare Systems Engineering</i> , 2020, 10, 229-242.	1.2	11
31	Homogeneity and Best Practice Analyses in Hospital Performance Management: An Analytical Framework. <i>Health Care Management Science</i> , 2022, 25, 406-425.	1.5	11
32	Mid-term nurse rostering considering cross-training effects. <i>International Journal of Production Economics</i> , 2018, 196, 176-187.	5.1	10
33	Obtaining the optimal fleet mix: A case study about towing tractors at airports. <i>Omega</i> , 2016, 64, 102-114.	3.6	9
34	Benchmarking the benchmarks – Comparing the accuracy of Data Envelopment Analysis models in constant returns to scale settings. <i>European Journal of Operational Research</i> , 2020, 285, 1042-1057.	3.5	9
35	Managing admission and discharge processes in intensive care units. <i>Health Care Management Science</i> , 2021, 24, 666-685.	1.5	8
36	Forecasting Betula and Poaceae airborne pollen concentrations on a 3-hourly resolution in Augsburg, Germany: toward automatically generated, real-time predictions. <i>Aerobiologia</i> , 2021, 37, 425-446.	0.7	7

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37	A Scalable Forecasting Framework to Predict COVID-19 Hospital Bed Occupancy. <i>INFORMS Journal on Applied Analytics</i> , 0, , .	0.7	7
38	Analyzing the relative efficiency of internationalization in the university business model: the case of Germany. <i>Studies in Higher Education</i> , 2021, 46, 938-950.	2.9	5
39	State of the Art in Physician Scheduling. <i>SSRN Electronic Journal</i> , 0, , .	0.4	5
40	Determinants of the utilization of allergy management measures among hay fever sufferers: a theory-based cross-sectional study. <i>BMC Public Health</i> , 2020, 20, 1876.	1.2	4
41	Simulation and Evaluation of ICU Management Policies. , 2020, , .		4
42	Balancing control and autonomy in master surgery scheduling: Benefits of ICU quotas for recovery units. <i>Health Care Management Science</i> , 2022, , 1.	1.5	3
43	A new user specific multiple testing method for business applications: The SiMaFlex procedure. <i>Journal of Statistical Planning and Inference</i> , 2021, 214, 25-40.	0.4	2
44	Reaching for the stars: attention to multiple testing problems and method recommendations using simulation for business research. <i>Journal of Business Economics</i> , 2019, 89, 447-479.	1.3	1
45	Optimized planning of nursing curricula in dual vocational schools focusing on the German health care system. <i>European Journal of Operational Research</i> , 2023, 304, 1223-1241.	3.5	0