

Erik Demeulemeester

List of Publications by Year in descending order

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Version: 2024-02-01

78
papers

5,842
citations

134610

34
h-index

93651

72
g-index

78
all docs

78
docs citations

78
times ranked

3018
citing authors

#	ARTICLE	IF	CITATIONS
1	Minimising the number of cancellations at the time of a severe lack of postanesthesia care unit beds or nurses. <i>International Journal of Production Research</i> , 2022, 60, 3383-3396.	4.9	4
2	A predictive“reactive approach for the sequencing of assembly operations in an automated assembly line. <i>Robotics and Computer-Integrated Manufacturing</i> , 2022, 73, 102201.	6.1	6
3	Generating a robust baseline schedule for the robust discrete time/resource trade-off problem under work content uncertainty. <i>Computers and Operations Research</i> , 2022, 143, 105795.	2.4	5
4	On the use of partitioning for scheduling of surgeries in the inpatient surgical department. <i>Health Care Management Science</i> , 2022, 25, 526-550.	1.5	2
5	A bi-objective robust resource allocation model for the RCPSP considering resource transfer costs. <i>International Journal of Production Research</i> , 2021, 59, 367-387.	4.9	17
6	Simulation-based priority rules for the stochastic resource-constrained net present value and risk problem. <i>Computers and Industrial Engineering</i> , 2021, 160, 107607.	3.4	8
7	Operating room planning and scheduling for outpatients and inpatients: A review and future research. <i>Operations Research for Health Care</i> , 2021, 31, 100323.	0.8	9
8	A Bayesian approach to set the tolerance limits for a statistical project control method. <i>International Journal of Production Research</i> , 2020, 58, 3150-3163.	4.9	14
9	The integration of resource allocation and time buffering for bi-objective robust project scheduling. <i>International Journal of Production Research</i> , 2020, 58, 3839-3854.	4.9	20
10	Expectation and SAA Models and Algorithms for Scheduling of Multiple Earth Observation Satellites Under the Impact of Clouds. <i>IEEE Systems Journal</i> , 2020, 14, 5451-5462.	2.9	15
11	Important classes of reactions for the proactive and reactive resource-constrained project scheduling problem. <i>Annals of Operations Research</i> , 2019, 274, 187-210.	2.6	28
12	A Genetic Algorithm for the Proactive Resource-Constrained Project Scheduling Problem With Activity Splitting. <i>IEEE Transactions on Engineering Management</i> , 2019, 66, 459-474.	2.4	22
13	Adaptive operating rooms planning and scheduling: A rolling horizon approach. <i>Operations Research for Health Care</i> , 2019, 22, 100200.	0.8	11
14	Exact and Heuristic Scheduling Algorithms for Multiple Earth Observation Satellites Under Uncertainties of Clouds. <i>IEEE Systems Journal</i> , 2019, 13, 3556-3567.	2.9	28
15	Robust resource-constrained max-NPV project scheduling with stochastic activity duration. <i>OR Spectrum</i> , 2019, 41, 219-254.	2.1	25
16	A novel branch-and-bound algorithm for the chance-constrained resource-constrained project scheduling problem. <i>International Journal of Production Research</i> , 2019, 57, 1265-1282.	4.9	21
17	The proactive and reactive resource-constrained project scheduling problem. <i>Journal of Scheduling</i> , 2019, 22, 211-237.	1.3	48
18	Efficient priority rules for the stochastic resource-constrained project scheduling problem. <i>European Journal of Operational Research</i> , 2018, 270, 957-967.	3.5	66

#	ARTICLE	IF	CITATIONS
19	A three-stage mixed integer programming approach for optimizing the skill mix and training schedules for aircraft maintenance. <i>European Journal of Operational Research</i> , 2018, 267, 439-452.	3.5	39
20	A model enhancement approach for optimizing the integrated shift scheduling and vehicle routing problem in waste collection. <i>European Journal of Operational Research</i> , 2018, 266, 278-290.	3.5	31
21	Improved critical chain buffer management framework considering resource costs and schedule stability. <i>Flexible Services and Manufacturing Journal</i> , 2017, 29, 159-183.	1.9	24
22	Due time driven surgery scheduling. <i>Health Care Management Science</i> , 2017, 20, 326-352.	1.5	15
23	The Proactive and Reactive Resource-Constrained Project Scheduling Problem: The Crucial Role of Buffer-Based Reactions. <i>SSRN Electronic Journal</i> , 2017, , .	0.4	1
24	A pure proactive scheduling algorithm for multiple earth observation satellites under uncertainties of clouds. <i>Computers and Operations Research</i> , 2016, 74, 1-13.	2.4	60
25	Scheduling operating rooms: achievements, challenges and pitfalls. <i>Journal of Scheduling</i> , 2016, 19, 493-525.	1.3	154
26	An ex ante bidding model to assess the incentive creation capability of a publicâ€“private partnership pipeline. <i>International Journal of Project Management</i> , 2016, 34, 117-131.	2.7	10
27	Editorial â€œProject Management and Schedulingâ€• <i>OR Spectrum</i> , 2016, 38, 279-281.	2.1	0
28	A sequential procurement model for a PPP project pipeline. <i>OR Spectrum</i> , 2016, 38, 427-457.	2.1	2
29	Incorporation of activity sensitivity measures into buffer management to manage project schedule risk. <i>European Journal of Operational Research</i> , 2016, 249, 717-727.	3.5	68
30	A genetic algorithm for the robust resource leveling problem. <i>Journal of Scheduling</i> , 2016, 19, 43-60.	1.3	43
31	A purely proactive scheduling procedure for the resource-constrained project scheduling problem with stochastic activity durations. <i>Journal of Scheduling</i> , 2016, 19, 409-428.	1.3	97
32	Exact algorithms for single-machine scheduling with time windows and precedence constraints. <i>Journal of Scheduling</i> , 2016, 19, 309-334.	1.3	15
33	Exact and Inexact Scheduling Algorithms for Multiple Earth Observation Satellites Under Uncertainties of Clouds. <i>SSRN Electronic Journal</i> , 2015, , .	0.4	6
34	A model enhancement heuristic for building robust aircraft maintenance personnel rosters with stochastic constraints. <i>European Journal of Operational Research</i> , 2015, 246, 661-673.	3.5	35
35	Workforce planning incorporating skills: State of the art. <i>European Journal of Operational Research</i> , 2015, 243, 1-16.	3.5	225
36	Trade-offs in operating room planning for electives and emergencies: A review. <i>Operations Research for Health Care</i> , 2015, 7, 52-69.	0.8	72

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37	Scheduling Policies for the Stochastic Resource Leveling Problem. Journal of Construction Engineering and Management - ASCE, 2015, 141, .	2.0	22
38	Effective expediting to improve project due date and cost performance through buffer management. International Journal of Production Research, 2015, 53, 1460-1471.	4.9	43
39	Ranking Indices for Mitigating Project Risks. , 2015, , 1135-1153.		0
40	Railway scheduling reduces the expected project makespan over roadrunner scheduling in a multi-mode project scheduling environment. Annals of Operations Research, 2014, 213, 271-291.	2.6	22
41	A new approach for quantitative risk analysis. Annals of Operations Research, 2014, 213, 27-65.	2.6	28
42	Personnel scheduling: A literature review. European Journal of Operational Research, 2013, 226, 367-385.	3.5	576
43	A multilevel integrative approach to hospital case mix and capacity planning. Computers and Operations Research, 2013, 40, 2198-2207.	2.4	84
44	On the interaction between roadrunner or railway scheduling and priority lists or resource flow networks. Flexible Services and Manufacturing Journal, 2013, 25, 145-174.	1.9	6
45	Project management and scheduling. Flexible Services and Manufacturing Journal, 2013, 25, 1-5.	1.9	6
46	A three-stage approach for aircraft line maintenance personnel rostering using MIP, discrete event simulation and DEA. Expert Systems With Applications, 2013, 40, 2659-2668.	4.4	24
47	Integrated staffing and scheduling for an aircraft line maintenance problem. Computers and Operations Research, 2013, 40, 1023-1033.	2.4	50
48	Improving Workforce Scheduling of Aircraft Line Maintenance at Sabena Technics. Interfaces, 2012, 42, 352-364.	1.6	31
49	Time slack-based techniques for robust project scheduling subject to resource uncertainty. Annals of Operations Research, 2011, 186, 443-464.	2.6	101
50	RESCON: Educational project scheduling software. Computer Applications in Engineering Education, 2011, 19, 327-336.	2.2	15
51	Proactive policies for the stochastic resource-constrained project scheduling problem. European Journal of Operational Research, 2011, 214, 308-316.	3.5	97
52	A DECISION SUPPORT SYSTEM FOR SURGERY SEQUENCING AT UZ LEUVEN'S DAY-CARE DEPARTMENT. International Journal of Information Technology and Decision Making, 2011, 10, 435-450.	2.3	16
53	On the use of planning models in the operating theatre: results of a survey in Flanders. International Journal of Health Planning and Management, 2010, 25, 400-414.	0.7	32
54	Operating room planning and scheduling: A literature review. European Journal of Operational Research, 2010, 201, 921-932.	3.5	856

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55	A decision support system for cyclic master surgery scheduling with multiple objectives. <i>Journal of Scheduling</i> , 2009, 12, 147-161.	1.3	125
56	Optimizing a multiple objective surgical case sequencing problem. <i>International Journal of Production Economics</i> , 2009, 119, 354-366.	5.1	140
57	Sequencing surgical cases in a day-care environment: An exact branch-and-price approach. <i>Computers and Operations Research</i> , 2009, 36, 2660-2669.	2.4	128
58	Robust Project Scheduling. <i>Foundations and Trends in Technology, Information and Operations Management</i> , 2009, 3, 201-376.	0.4	17
59	Proactive heuristic procedures for robust project scheduling: An experimental analysis. <i>European Journal of Operational Research</i> , 2008, 189, 723-733.	3.5	183
60	Capacity of Clinical Pathways – A Strategic Multi-level Evaluation Tool. <i>Journal of Medical Systems</i> , 2008, 32, 443-452.	2.2	62
61	Proactive and reactive strategies for resource-constrained project scheduling with uncertain resource availabilities. <i>Journal of Scheduling</i> , 2008, 11, 121-136.	1.3	155
62	A branch-and-price approach for integrating nurse and surgery scheduling. <i>European Journal of Operational Research</i> , 2008, 189, 652-668.	3.5	138
63	A tabu search procedure for developing robust predictive project schedules. <i>International Journal of Production Economics</i> , 2008, 111, 493-508.	5.1	105
64	Heuristic procedures for reactive project scheduling. <i>Computers and Industrial Engineering</i> , 2007, 52, 11-28.	3.4	83
65	Building cyclic master surgery schedules with leveled resulting bed occupancy. <i>European Journal of Operational Research</i> , 2007, 176, 1185-1204.	3.5	233
66	Introduction to the special issue: project scheduling under uncertainty. <i>Journal of Scheduling</i> , 2007, 10, 151-152.	1.3	6
67	A classification of predictive-reactive project scheduling procedures. <i>Journal of Scheduling</i> , 2007, 10, 195-207.	1.3	105
68	On the trade-off between staff-decomposed and activity-decomposed column generation for a staff scheduling problem. <i>Annals of Operations Research</i> , 2007, 155, 143-166.	2.6	23
69	Visualizing the Demand for Various Resources as a Function of the Master Surgery Schedule: A Case Study. <i>Journal of Medical Systems</i> , 2006, 30, 343-350.	2.2	49
70	The use of buffers in project management: The trade-off between stability and makespan. <i>International Journal of Production Economics</i> , 2005, 97, 227-240.	5.1	166
71	RanGen: A Random Network Generator for Activity-on-the-Node Networks. <i>Journal of Scheduling</i> , 2003, 6, 17-38.	1.3	221
72	Title is missing!. <i>Annals of Operations Research</i> , 2001, 102, 179-196.	2.6	63

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73	The discrete time/resource trade-off problem in project networks: a branch-and-bound approach. IIE Transactions, 2000, 32, 1059-1069.	2.1	0
74	The discrete time/resource trade-off problem in project networks: a branch-and-bound approach. IIE Transactions, 2000, 32, 1059-1069.	2.1	59
75	Local search methods for the discrete time/resource trade-off problem in project networks. Naval Research Logistics, 1998, 45, 553-578.	1.4	41
76	A Branch-and-Bound Procedure for the Multiple Resource-Constrained Project Scheduling Problem. Management Science, 1992, 38, 1803-1818.	2.4	480
77	Towards a More Competitive PPP Procurement Market: A Game-Theoretical Analysis. SSRN Electronic Journal, 0, , .	0.4	4
78	A Two-Stage Mixed Integer Programming Approach for Optimizing the Skill Mix and Training Schedules For Aircraft Maintenance. SSRN Electronic Journal, 0, , .	0.4	1