

Greet Vanden Berghe

List of Publications by Year in descending order

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Version: 2024-02-01

106
papers

4,281
citations

136740

32
h-index

123241

61
g-index

110
all docs

110
docs citations

110
times ranked

2645
citing authors

#	ARTICLE	IF	CITATIONS
1	The State of the Art of Nurse Rostering. Journal of Scheduling, 2004, 7, 441-499.	1.3	666
2	Iterated local search for the team orienteering problem with time windows. Computers and Operations Research, 2009, 36, 3281-3290.	2.4	257
3	The City Trip Planner: An expert system for tourists. Expert Systems With Applications, 2011, 38, 6540-6546.	4.4	213
4	A PERSONALIZED TOURIST TRIP DESIGN ALGORITHM FOR MOBILE TOURIST GUIDES. Applied Artificial Intelligence, 2008, 22, 964-985.	2.0	177
5	A guided local search metaheuristic for the team orienteering problem. European Journal of Operational Research, 2009, 196, 118-127.	3.5	160
6	A Memetic Approach to the Nurse Rostering Problem. Applied Intelligence, 2001, 15, 199-214.	3.3	149
7	The Multiconstraint Team Orienteering Problem with Multiple Time Windows. Transportation Science, 2013, 47, 53-63.	2.6	111
8	A Path Relinking approach for the Team Orienteering Problem. Computers and Operations Research, 2010, 37, 1853-1859.	2.4	102
9	A categorisation of nurse rostering problems. Journal of Scheduling, 2011, 14, 3-16.	1.3	98
10	A hybrid tabu search algorithm for automatically assigning patients to beds. Artificial Intelligence in Medicine, 2010, 48, 61-70.	3.8	91
11	A multi-objective approach for robust airline scheduling. Computers and Operations Research, 2010, 37, 822-832.	2.4	89
12	A Hybrid Tabu Search Algorithm for the Nurse Rostering Problem. Lecture Notes in Computer Science, 1999, , 187-194.	1.0	77
13	A shift sequence based approach for nurse scheduling and a new benchmark dataset. Journal of Heuristics, 2010, 16, 559-573.	1.1	72
14	One hyper-heuristic approach to two timetabling problems in health care. Journal of Heuristics, 2012, 18, 401-434.	1.1	71
15	Slack Induction by String Removals for Vehicle Routing Problems. Transportation Science, 2020, 54, 417-433.	2.6	70
16	Good Laboratory Practice for optimization research. Journal of the Operational Research Society, 2016, 67, 676-689.	2.1	63
17	METAHEURISTICS FOR HANDLING TIME INTERVAL COVERAGE CONSTRAINTS IN NURSE SCHEDULING. Applied Artificial Intelligence, 2006, 20, 743-766.	2.0	62
18	The planning of cycle trips in the province of East Flanders. Omega, 2011, 39, 209-213.	3.6	61

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19	A decomposed metaheuristic approach for a real-world university timetabling problem. <i>European Journal of Operational Research</i> , 2009, 195, 307-318.	3.5	53
20	The generalized lock scheduling problem: An exact approach. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , 2014, 65, 16-34.	3.7	52
21	The shift minimisation personnel task scheduling problem: A new hybrid approach and computational insights. <i>Omega</i> , 2014, 46, 64-73.	3.6	51
22	The Multi-Mode Resource-Constrained Multi-Project Scheduling Problem. <i>Journal of Scheduling</i> , 2016, 19, 271-283.	1.3	51
23	Multi-directional local search for a bi-objective dial-a-ride problem in patient transportation. <i>Computers and Operations Research</i> , 2017, 77, 58-71.	2.4	49
24	Local search neighbourhoods for dealing with a novel nurse rostering model. <i>Annals of Operations Research</i> , 2012, 194, 33-57.	2.6	45
25	A tabu search approach to the truck scheduling problem with multiple docks and time windows. <i>Computers and Industrial Engineering</i> , 2013, 66, 818-826.	3.4	45
26	Metaheuristics for Tourist Trip Planning. <i>Lecture Notes in Economics and Mathematical Systems</i> , 2009, , 15-31.	0.3	43
27	The lockmaster's problem. <i>European Journal of Operational Research</i> , 2016, 251, 432-441.	3.5	43
28	A two-dimensional heuristic decomposition approach to a three-dimensional multiple container loading problem. <i>European Journal of Operational Research</i> , 2017, 257, 526-538.	3.5	40
29	Real-world production scheduling for the food industry: An integrated approach. <i>Engineering Applications of Artificial Intelligence</i> , 2012, 25, 222-228.	4.3	39
30	A hyperheuristic approach to examination timetabling problems: benchmarks and a new problem from practice. <i>Journal of Scheduling</i> , 2012, 15, 83-103.	1.3	39
31	Cooperative search for fair nurse rosters. <i>Expert Systems With Applications</i> , 2013, 40, 6674-6683.	4.4	38
32	Modelling and evaluation issues in nurse rostering. <i>Annals of Operations Research</i> , 2014, 218, 303-326.	2.6	37
33	Flexible home care scheduling. <i>Omega</i> , 2019, 83, 80-95.	3.6	36
34	An Ant Based Hyper-heuristic for the Travelling Tournament Problem. , 2007, , .		35
35	Automatic air cargo selection and weight balancing: A mixed integer programming approach. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , 2014, 65, 70-83.	3.7	33
36	Analysis of stochastic local search methods for the unrelated parallel machine scheduling problem. <i>International Transactions in Operational Research</i> , 2019, 26, 707-724.	1.8	33

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37	A learning-based optimization approach to multi-project scheduling. <i>Journal of Scheduling</i> , 2015, 18, 61-74.	1.3	32
38	A comparison of two approaches to nurse rostering problems. <i>Annals of Operations Research</i> , 2012, 194, 365-384.	2.6	31
39	A Late Acceptance Algorithm for the Lock Scheduling Problem. , 2009, , 457-478.		31
40	An analysis of generalised heuristics for vehicle routing and personnel rostering problems. <i>Journal of the Operational Research Society</i> , 2015, 66, 858-870.	2.1	30
41	Scheduling algorithms for the lock scheduling problem. <i>Procedia, Social and Behavioral Sciences</i> , 2011, 20, 806-815.	0.5	29
42	Variable Neighborhood Search for Nurse Rostering Problems. <i>Applied Optimization</i> , 2003, , 153-172.	0.4	29
43	An Intelligent Hyper-Heuristic Framework for CHeSC 2011. <i>Lecture Notes in Computer Science</i> , 2012, , 461-466.	1.0	28
44	A new hyper-heuristic as a general problem solver: an implementation in HyFlex. <i>Journal of Scheduling</i> , 2013, 16, 291-311.	1.3	27
45	A Time Predefined Variable Depth Search for Nurse Rostering. <i>INFORMS Journal on Computing</i> , 2013, 25, 411-419.	1.0	27
46	School bus routing—a column generation approach. <i>International Transactions in Operational Research</i> , 2014, 21, 453-478.	1.8	27
47	A two-phase heuristic approach to multi-day surgical case scheduling considering generalized resource constraints. <i>Operations Research for Health Care</i> , 2015, 7, 27-39.	0.8	27
48	Polynomially solvable personnel rostering problems. <i>European Journal of Operational Research</i> , 2016, 249, 67-75.	3.5	25
49	The berth allocation problem in terminals with irregular layouts. <i>European Journal of Operational Research</i> , 2019, 272, 1096-1108.	3.5	24
50	A decomposition approach to dual shuttle automated storage and retrieval systems. <i>Computers and Industrial Engineering</i> , 2016, 101, 325-337.	3.4	23
51	Heuristic decomposition approaches for an integrated task scheduling and personnel rostering problem. <i>Computers and Operations Research</i> , 2016, 76, 60-72.	2.4	22
52	The nurse rerostering problem: Strategies for reconstructing disrupted schedules. <i>Computers and Operations Research</i> , 2019, 104, 319-337.	2.4	22
53	MamMoeT: An intelligent agent-based communication support platform for multimodal transport. <i>Expert Systems With Applications</i> , 2009, 36, 10280-10287.	4.4	21
54	An improved best-fit heuristic for the orthogonal strip packing problem. <i>International Transactions in Operational Research</i> , 2013, 20, 711-730.	1.8	19

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55	A study of decision support models for online patient-to-room assignment planning. <i>Annals of Operations Research</i> , 2016, 239, 253-271.	2.6	19
56	A Mobile Tourist Decision Support System for Small Footprint Devices. <i>Lecture Notes in Computer Science</i> , 2009, , 1248-1255.	1.0	18
57	The roster quality staffing problem – A methodology for improving the roster quality by modifying the personnel structure. <i>European Journal of Operational Research</i> , 2013, 230, 551-562.	3.5	17
58	Stochastic local search with learning automaton for the swap-body vehicle routing problem. <i>Computers and Operations Research</i> , 2018, 89, 68-81.	2.4	17
59	Evolutionary synthesis of multi-agent systems for dynamic dial-a-ride problems. , 2012, , .		16
60	Crane-operated warehouses: Integrating location assignment and crane scheduling. <i>Computers and Industrial Engineering</i> , 2019, 129, 274-295.	3.4	16
61	Towards a reference model for timetabling and rostering. <i>Annals of Operations Research</i> , 2012, 194, 167-176.	2.6	15
62	Chance-constrained admission scheduling of elective surgical patients in a dynamic, uncertain setting. <i>Operations Research for Health Care</i> , 2019, 22, 100196.	0.8	15
63	Compatibility of short and long term objectives for dynamic patient admission scheduling. <i>Computers and Operations Research</i> , 2019, 104, 98-112.	2.4	15
64	A periodic optimization approach to dynamic pickup and delivery problems with time windows. <i>Journal of Scheduling</i> , 2020, 23, 711-731.	1.3	15
65	The tactical berth allocation problem with time-variant specific quay crane assignments. <i>Computers and Industrial Engineering</i> , 2021, 155, 107168.	3.4	15
66	Hyper-heuristics with a dynamic heuristic set for the home care scheduling problem. , 2010, , .		14
67	Measures of dynamism and urgency in logistics. <i>European Journal of Operational Research</i> , 2016, 253, 614-624.	3.5	14
68	Dispatch and conflict-free routing of capacitated vehicles with storage stack allocation. <i>Journal of the Operational Research Society</i> , 2021, 72, 1780-1793.	2.1	13
69	Relaxation of Coverage Constraints in Hospital Personnel Rostering. <i>Lecture Notes in Computer Science</i> , 2003, , 129-147.	1.0	12
70	Outlier detection in relational data: A case study in geographical information systems. <i>Expert Systems With Applications</i> , 2012, 39, 4718-4728.	4.4	12
71	Decomposition and local search based methods for the traveling umpire problem. <i>European Journal of Operational Research</i> , 2014, 238, 886-898.	3.5	11
72	The one-dimensional cutting stock problem with sequence-dependent cut losses. <i>International Transactions in Operational Research</i> , 2016, 23, 5-24.	1.8	11

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73	A mixed integer programming approach to the aircraft weight and balance problem. <i>Procedia, Social and Behavioral Sciences</i> , 2011, 20, 1051-1059.	0.5	10
74	Alternative e-commerce delivery policies. <i>EURO Journal on Transportation and Logistics</i> , 2019, 8, 217-248.	1.3	10
75	Branch-and-bound with decomposition-based lower bounds for the Traveling Umpire Problem. <i>European Journal of Operational Research</i> , 2016, 250, 737-744.	3.5	9
76	Local and global constraint consistency in personnel rostering. <i>International Transactions in Operational Research</i> , 2017, 24, 1099-1117.	1.8	9
77	Optimal decision trees for the algorithm selection problem: integer programming based approaches. <i>International Transactions in Operational Research</i> , 2021, 28, 2759-2781.	1.8	9
78	An effective shaking procedure for 2D and 3D strip packing problems. <i>Computers and Operations Research</i> , 2013, 40, 2662-2669.	2.4	8
79	Facilitating the transition from manual to automated nurse rostering. <i>Health Systems</i> , 2016, 5, 120-131.	0.9	8
80	On Horizontal Dynamic Effects on Palletized Goods during Road Transport. <i>Packaging Technology and Science</i> , 2018, 31, 310-330.	1.3	8
81	Variable Neighbourhood Descent for Planning Crane Operations in a Train Terminal. <i>Lecture Notes in Economics and Mathematical Systems</i> , 2009, , 83-98.	0.3	8
82	A Multi Agent System to Control Complexity in Multi Modal Transport. , 2006, , .		7
83	Multi-machine energy-aware scheduling. <i>EURO Journal on Computational Optimization</i> , 2017, 5, 285-307.	1.5	7
84	The sport teams grouping problem. <i>Annals of Operations Research</i> , 2019, 275, 223-243.	2.6	7
85	Tour Suggestion for Outdoor Activities. <i>Lecture Notes in Computer Science</i> , 2013, , 54-63.	1.0	7
86	Balancing desirability and promotion steadiness in partially stochastic manpower planning systems. <i>Communications in Statistics - Theory and Methods</i> , 2016, 45, 1805-1818.	0.6	6
87	The prisoner transportation problem. <i>European Journal of Operational Research</i> , 2020, 284, 1058-1073.	3.5	6
88	Achieving compromise solutions in nurse rostering by using automatically estimated acceptance thresholds. <i>European Journal of Operational Research</i> , 2021, 292, 980-995.	3.5	6
89	Scheduling truck drivers with interdependent routes under European Union regulations. <i>European Journal of Operational Research</i> , 2022, 298, 76-88.	3.5	6
90	The impact of loading restrictions on the two-echelon location routing problem. <i>Computers and Industrial Engineering</i> , 2021, 160, 107609.	3.4	6

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91	Automated Parameterisation of a Metaheuristic for the Orienteering Problem. Studies in Computational Intelligence, 2008, , 255-269.	0.7	6
92	Strategic room type allocation for nursing wards through Markov chain modeling. Artificial Intelligence in Medicine, 2019, 99, 101705.	3.8	5
93	The extended roster quality staffing problem: addressing roster quality variation within a staffing planning period. Journal of Scheduling, 2020, 23, 253-264.	1.3	5
94	Balancing attainability, desirability and promotion steadiness in manpower planning systems. Journal of the Operational Research Society, 2015, 66, 2004-2014.	2.1	4
95	Demand smoothing in shift design. Flexible Services and Manufacturing Journal, 2021, 33, 457-484.	1.9	4
96	Semantic Components for Timetabling. Lecture Notes in Computer Science, 2005, , 17-33.	1.0	4
97	Scheduling Serial Locks: A Green Wave for Waterbound Logistics. Contributions To Management Science, 2016, , 91-109.	0.4	4
98	Truck scheduling in tank terminals. EURO Journal on Transportation and Logistics, 2020, 9, 100001.	1.3	3
99	Fast Permutation Learning. Lecture Notes in Computer Science, 2012, , 292-306.	1.0	3
100	A dynamic scheduling approach to internal hospital logistics. , 2018, , .		2
101	Designing trust with software agents: A case study. Journal of Information Communication and Ethics in Society, 2006, 4, 37-48.	1.0	1
102	Fast approximation of reach hierarchies in networks. , 2014, , .		1
103	Quantifying and enforcing robustness in staff rostering. Journal of Scheduling, 2021, 24, 347-366.	1.3	1
104	Simulation and optimization for ship lock scheduling: A case study. , 2016, , .		0
105	Behind-the-Scenes Weight Tuning for applied nurse rostering. Operations Research for Health Care, 2020, 26, 100265.	0.8	0
106	The vessel swap-body routing problem. European Journal of Operational Research, 2022, 303, 354-369.	3.5	0