

Patrick De Causmaecker

List of Publications by Year in descending order

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Version: 2024-02-01

99
papers

4,018
citations

147801

31
h-index

118850

62
g-index

102
all docs

102
docs citations

102
times ranked

2593
citing authors

#	ARTICLE	IF	CITATIONS
1	A new class of hard problem instances for the 0-1 knapsack problem. European Journal of Operational Research, 2022, 301, 841-854.	5.7	10
2	Neural networked-assisted method for the nurse rostering problem. Computers and Industrial Engineering, 2022, 171, 108430.	6.3	1
3	Local search for constrained graph clustering in biological networks. Computers and Operations Research, 2021, 132, 105299.	4.0	4
4	The intermittent travelling salesman problem. International Transactions in Operational Research, 2020, 27, 525-548.	2.7	3
5	A multi-start local search algorithm for the Hamiltonian completion problem on undirected graphs. Journal of Heuristics, 2020, 26, 743-769.	1.4	4
6	Minimizing makespan on a single machine with release dates and inventory constraints. European Journal of Operational Research, 2020, 286, 115-128.	5.7	9
7	A combined approach for analysing heuristic algorithms. Journal of Heuristics, 2019, 25, 591-628.	1.4	4
8	The Second International Nurse Rostering Competition. Annals of Operations Research, 2019, 274, 171-186.	4.1	30
9	Chance-constrained admission scheduling of elective surgical patients in a dynamic, uncertain setting. Operations Research for Health Care, 2019, 22, 100196.	1.2	15
10	Adaptive Multi-objective Local Search Algorithms for the Permutation Flowshop Scheduling Problem. Lecture Notes in Computer Science, 2019, , 241-256.	1.3	1
11	Automating Personnel Rostering by Learning Constraints Using Tensors. , 2019, , .		4
12	The impact of solution representations on heuristic net present value optimization in discrete time/cost trade-off project scheduling with multiple cash flow and payment models. Computers and Operations Research, 2019, 103, 184-197.	4.0	22
13	A Metaheuristic Approach to Compute Pure Nash Equilibria. Studies in Computational Intelligence, 2019, , 221-233.	0.9	1
14	Declarative Local Search for Predicate Logic. Lecture Notes in Computer Science, 2019, , 340-346.	1.3	0
15	Evidence for Precursors of the Coronal Hole Jets in Solar Bright Points. Astrophysical Journal Letters, 2018, 855, L21.	8.3	9
16	Applying Algorithm Selection – a Case Study for the Generalised Assignment Problem. Electronic Notes in Discrete Mathematics, 2018, 69, 205-212.	0.4	4
17	A Re-characterization of Hyper-Heuristics. Operations Research/ Computer Science Interfaces Series, 2018, , 75-89.	0.3	6
18	Data-driven Onboard Scheduling for an Autonomous Observation Satellite. , 2018, , .		1

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19	Long-period oscillations of active region patterns: least-squares mapping on second-order curves. <i>Astronomy and Astrophysics</i> , 2017, 597, A93.	5.1	6
20	Quasi-oscillatory dynamics observed in ascending phase of the flare on March 6, 2012. <i>Astronomy and Astrophysics</i> , 2017, 600, A67.	5.1	3
21	Statistical properties of coronal hole rotation rates: Are they linked to the solar interior?. <i>Astronomy and Astrophysics</i> , 2017, 603, A134.	5.1	24
22	Data Science Meets Optimization. <i>Springer Proceedings in Mathematics and Statistics</i> , 2017, , 13-20.	0.2	2
23	Configuring irace using surrogate configuration benchmarks. , 2017, , .		9
24	A study of decision support models for online patient-to-room assignment planning. <i>Annals of Operations Research</i> , 2016, 239, 253-271.	4.1	19
25	Characterization of Neighborhood Behaviours in a Multi-neighborhood Local Search Algorithm. <i>Lecture Notes in Computer Science</i> , 2016, , 234-239.	1.3	3
26	Polynomially solvable personnel rostering problems. <i>European Journal of Operational Research</i> , 2016, 249, 67-75.	5.7	25
27	Good Laboratory Practice for optimization research. <i>Journal of the Operational Research Society</i> , 2016, 67, 676-689.	3.4	63
28	Formation and evolution of coronal rain observed by SDO/AIA on February 22, 2012. <i>Astronomy and Astrophysics</i> , 2015, 577, A136.	5.1	24
29	Towards a Knowledge Base for Performance Data. , 2015, , .		1
30	Solving Euclidean Steiner Tree Problems with Multi Swarm Optimization. , 2015, , .		0
31	A Combinatorial Benders ^{x3} decomposition for the lock scheduling problem. <i>Computers and Operations Research</i> , 2015, 54, 117-128.	4.0	55
32	A learning-based optimization approach to multi-project scheduling. <i>Journal of Scheduling</i> , 2015, 18, 61-74.	1.9	32
33	Learning a Hidden Markov Model-Based Hyper-heuristic. <i>Lecture Notes in Computer Science</i> , 2015, , 74-88.	1.3	0
34	Fast approximation of reach hierarchies in networks. , 2014, , .		1
35	An automatic algorithm selection approach for the multi-mode resource-constrained project scheduling problem. <i>European Journal of Operational Research</i> , 2014, 233, 511-528.	5.7	59
36	Modelling and evaluation issues in nurse rostering. <i>Annals of Operations Research</i> , 2014, 218, 303-326.	4.1	37

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37	Exact and heuristic methods for placing ships in locks. <i>European Journal of Operational Research</i> , 2014, 235, 387-398.	5.7	47
38	The generalized lock scheduling problem: An exact approach. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , 2014, 65, 16-34.	7.4	52
39	The first international nurse rostering competition 2010. <i>Annals of Operations Research</i> , 2014, 218, 221-236.	4.1	59
40	Motivations for the Development of a Multi-objective Algorithm Configurator. , 2014, , .		0
41	A new hyper-heuristic as a general problem solver: an implementation in HyFlex. <i>Journal of Scheduling</i> , 2013, 16, 291-311.	1.9	27
42	Nurse Rostering: A Complex Example of Personnel Scheduling with Perspectives. <i>Studies in Computational Intelligence</i> , 2013, , 129-153.	0.9	8
43	An investigation on the generality level of selection hyper-heuristics under different empirical conditions. <i>Applied Soft Computing Journal</i> , 2013, 13, 3335-3353.	7.2	25
44	An improved best-fit heuristic for the orthogonal strip packing problem. <i>International Transactions in Operational Research</i> , 2013, 20, 711-730.	2.7	19
45	Boosting Metaheuristic Search Using Reinforcement Learning. <i>Studies in Computational Intelligence</i> , 2013, , 433-452.	0.9	10
46	Tour Suggestion for Outdoor Activities. <i>Lecture Notes in Computer Science</i> , 2013, , 54-63.	1.3	7
47	An unbiased evaluation of gene prioritization tools. <i>Bioinformatics</i> , 2012, 28, 3081-3088.	4.1	79
48	Mashups by orchestration and widget-based personal environments. <i>Data Technologies and Applications</i> , 2012, 46, 383-428.	0.8	24
49	Ubiquitous web navigation through harvesting embedded semantic data: A mobile scenario. <i>Integrated Computer-Aided Engineering</i> , 2012, 19, 93-109.	4.6	20
50	Real-world production scheduling for the food industry: An integrated approach. <i>Engineering Applications of Artificial Intelligence</i> , 2012, 25, 222-228.	8.1	39
51	Outlier detection in relational data: A case study in geographical information systems. <i>Expert Systems With Applications</i> , 2012, 39, 4718-4728.	7.6	12
52	A hyperheuristic approach to examination timetabling problems: benchmarks and a new problem from practice. <i>Journal of Scheduling</i> , 2012, 15, 83-103.	1.9	39
53	Towards a reference model for timetabling and rostering. <i>Annals of Operations Research</i> , 2012, 194, 167-176.	4.1	15
54	Local search neighbourhoods for dealing with a novel nurse rostering model. <i>Annals of Operations Research</i> , 2012, 194, 33-57.	4.1	45

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55	The Effect of the Set of Low-Level Heuristics on the Performance of Selection Hyper-heuristics. Lecture Notes in Computer Science, 2012, , 408-417.	1.3	8
56	Fast Permutation Learning. Lecture Notes in Computer Science, 2012, , 292-306.	1.3	3
57	An Intelligent Hyper-Heuristic Framework for CHeSC 2011. Lecture Notes in Computer Science, 2012, , 461-466.	1.3	28
58	Scheduling algorithms for the lock scheduling problem. Procedia, Social and Behavioral Sciences, 2011, 20, 806-815.	0.5	29
59	A categorisation of nurse rostering problems. Journal of Scheduling, 2011, 14, 3-16.	1.9	98
60	Visualization of networked collaboration in digital ecosystems through two-mode network patterns. , 2011, , .		4
61	Mashups and widget orchestration. , 2011, , .		8
62	A guide to web tools to prioritize candidate genes. Briefings in Bioinformatics, 2011, 12, 22-32.	6.5	163
63	Formal modelling, knowledge representation and reasoning for design and development of user-centric pervasive software: a meta-review. International Journal of Metadata, Semantics and Ontologies, 2011, 6, 96.	0.2	8
64	Learning agents for the multi-mode project scheduling problem. Journal of the Operational Research Society, 2011, 62, 281-290.	3.4	37
65	Ontology-Driven Adaptive and Pervasive Learning Environments " APLEs: An Interdisciplinary Approach. Communications in Computer and Information Science, 2011, , 99-115.	0.5	2
66	Omega Loops of Proteins in Homo Sapiens: Role in Diseases. Communications in Computer and Information Science, 2011, , 362-367.	0.5	0
67	A multi-objective approach for robust airline scheduling. Computers and Operations Research, 2010, 37, 822-832.	4.0	89
68	A hybrid tabu search algorithm for automatically assigning patients to beds. Artificial Intelligence in Medicine, 2010, 48, 61-70.	6.5	91
69	Structural Similarities Between the Catalytic Domain of Threonine Deaminase and the Mammalian Serine Racemases. , 2010, , .		0
70	Hyper-heuristics with a dynamic heuristic set for the home care scheduling problem. , 2010, , .		14
71	Semantic Mash-Up Personal and Pervasive Learning Environments (SMupple). Lecture Notes in Computer Science, 2010, , 501-504.	1.3	6
72	Utilizing Embedded Semantics for User-Driven Design of Pervasive Environments. Communications in Computer and Information Science, 2010, , 63-77.	0.5	3

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73	Comparative sequence and structural analyses of neuroserpin. , 2010, , .		0
74	Multi-facade and Ubiquitous Web Navigation and Access through Embedded Semantics. Lecture Notes in Computer Science, 2010, , 272-289.	1.3	1
75	A decomposed metaheuristic approach for a real-world university timetabling problem. European Journal of Operational Research, 2009, 195, 307-318.	5.7	53
76	Merging model driven and ontology driven system development approaches pervasive computing perspective. , 2009, , .		13
77	Context and Adaptivity in Context-Aware Pervasive Computing Environments. , 2009, , .		9
78	Embedded Semantics Empowering Context-Aware Pervasive Computing Environments. , 2009, , .		3
79	Context and Adaptivity in Pervasive Computing Environments: Links with Software Engineering and Ontological Engineering. Journal of Software, 2009, 4, .	0.6	53
80	A Multi Agent System to Control Complexity in Multi Modal Transport. , 2006, , .		7
81	Designing trust with software agents: A case study. Journal of Information Communication and Ethics in Society, 2006, 4, 37-48.	1.5	1
82	METAHEURISTICS FOR HANDLING TIME INTERVAL COVERAGE CONSTRAINTS IN NURSE SCHEDULING. Applied Artificial Intelligence, 2006, 20, 743-766.	3.2	62
83	Semantic Components for Timetabling. Lecture Notes in Computer Science, 2005, , 17-33.	1.3	4
84	The State of the Art of Nurse Rostering. Journal of Scheduling, 2004, 7, 441-499.	1.9	666
85	Relaxation of Coverage Constraints in Hospital Personnel Rostering. Lecture Notes in Computer Science, 2003, , 129-147.	1.3	12
86	Variable Neighborhood Search for Nurse Rostering Problems. Applied Optimization, 2003, , 153-172.	0.4	29
87	A Memetic Approach to the Nurse Rostering Problem. Applied Intelligence, 2001, 15, 199-214.	5.3	149
88	Sympathetic agents assist route in route planning. , 2001, , .		2
89	A Hybrid Tabu Search Algorithm for the Nurse Rostering Problem. Lecture Notes in Computer Science, 1999, , 187-194.	1.3	77
90	Multiple bremsstrahlung in gauge theories at high energies. Nuclear Physics B, 1986, 264, 243-264.	2.5	56

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91	Multiple bremsstrahlung in gauge theories at high energies. Nuclear Physics B, 1986, 264, 265-276.	2.5	58
92	Multiple bremsstrahlung in gauge theories at high energies. Nuclear Physics B, 1984, 239, 382-394.	2.5	72
93	Multiple bremsstrahlung in gauge theories at high energies. Nuclear Physics B, 1984, 239, 395-409.	2.5	79
94	Multiple bremsstrahlung in gauge theories at high energies (I). General formalism for quantum electrodynamics. Nuclear Physics B, 1982, 206, 53-60.	2.5	267
95	Multiple bremsstrahlung in gauge theories at high energies (II). Single bremsstrahlung. Nuclear Physics B, 1982, 206, 61-89.	2.5	208
96	Four-jet production in e^+e^- annihilation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1982, 114, 203-207.	4.1	46
97	Single bremsstrahlung processes in gauge theories. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1981, 103, 124-128.	4.1	357
98	Helicity amplitudes for massless QED. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1981, 105, 215-218.	4.1	113
99	A multi criteria meta-heuristic approach to nurse rostering. , 0, , .		9