Patrick De Causmaecker

List of Publications by Year
in descending order

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	The State of the Art of Nurse Rostering. Journal of Scheduling, 2004, 7, 441-499.	1.9	666
2	Single bremsstrahlung processes in gauge theories. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1981, 103, 124-128.	4.1	357
3	Multiple bremsstrahlung in gauge theories at high energies (I). General formalism for quantum electrodynamics. Nuclear Physics B, 1982, 206, 53-60.	2.5	267
4	Multiple bremsstrahlung in gauge theories at high energies (II). Single bremsstrahlung. Nuclear Physics B, 1982, 206, 61-89.	2.5	208
5	A guide to web tools to prioritize candidate genes. Briefings in Bioinformatics, 2011, 12, 22-32.	6.5	163
6	A Memetic Approach to the Nurse Rostering Problem. Applied Intelligence, 2001, 15, 199-214.	5.3	149
7	Helicity amplitudes for massless QED. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1981, 105, 215-218.	4.1	113
8	A categorisation of nurse rostering problems. Journal of Scheduling, 2011, 14, 3-16.	1.9	98
9	A hybrid tabu search algorithm for automatically assigning patients to beds. Artificial Intelligence in Medicine, 2010, 48, 61-70.	6.5	91
10	A multi-objective approach for robust airline scheduling. Computers and Operations Research, 2010, 37, 822-832.	4.0	89
11	Multiple bremsstrahlung in gauge theories at high energies. Nuclear Physics B, 1984, 239, 395-409.	2.5	79
12	An unbiased evaluation of gene prioritization tools. Bioinformatics, 2012, 28, 3081-3088.	4.1	79
13	A Hybrid Tabu Search Algorithm for the Nurse Rostering Problem. Lecture Notes in Computer Science, 1999, , 187-194.	1.3	77
14	Multiple bremsstrahlung in gauge theories at high energies. Nuclear Physics B, 1984, 239, 382-394.	2.5	72
15	Good Laboratory Practice for optimization research. Journal of the Operational Research Society, 2016, 67, 676-689.	3.4	63
16	METAHEURISTICS FOR HANDLING TIME INTERVAL COVERAGE CONSTRAINTS IN NURSE SCHEDULING. Applied Artificial Intelligence, 2006, 20, 743-766.	3.2	62
17	An automatic algorithm selection approach for the multi-mode resource-constrained project scheduling problem. European Journal of Operational Research, 2014, 233, 511-528.	5.7	59
18	The first international nurse rostering competition 2010. Annals of Operations Research, 2014, 218, 221-236.	4.1	59

#	Article	IF	Citations
19	Multiple bremsstrahlung in gauge theories at high energies. Nuclear Physics B, 1986, 264, 265-276.	2.5	58
20	Multiple bremsstrahlung in gauge theories at high energies. Nuclear Physics B, 1986, 264, 243-264.	2.5	56
21	A Combinatorial Benders×³ decomposition for the lock scheduling problem. Computers and Operations Research, 2015, 54, 117-128.	4.0	55
22	A decomposed metaheuristic approach for a real-world university timetabling problem. European Journal of Operational Research, 2009, 195, 307-318.	5.7	53
23	Context and Adaptivity in Pervasive Computing Environments: Links with Software Engineering and Ontological Engineering. Journal of Software, 2009, 4, .	0.6	53
24	The generalized lock scheduling problem: An exact approach. Transportation Research, Part E: Logistics and Transportation Review, 2014, 65, 16-34.	7.4	52
25	Exact and heuristic methods for placing ships in locks. European Journal of Operational Research, 2014, 235, 387-398.	5.7	47
26	Four-jet production in e+eâˆ' annihilation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1982, 114, 203-207.	4.1	46
27	Local search neighbourhoods for dealing with a novel nurse rostering model. Annals of Operations Research, 2012, 194, 33-57.	4.1	45
28	Real-world production scheduling for the food industry: An integrated approach. Engineering Applications of Artificial Intelligence, 2012, 25, 222-228.	8.1	39
29	A hyperheuristic approach to examination timetabling problems: benchmarks and a new problem from practice. Journal of Scheduling, 2012, 15, 83-103.	1.9	39
30	Learning agents for the multi-mode project scheduling problem. Journal of the Operational Research Society, 2011, 62, 281-290.	3.4	37
31	Modelling and evaluation issues in nurse rostering. Annals of Operations Research, 2014, 218, 303-326.	4.1	37
32	A learning-based optimization approach to multi-project scheduling. Journal of Scheduling, 2015, 18, 61-74.	1.9	32
33	The Second International Nurse Rostering Competition. Annals of Operations Research, 2019, 274, 171-186.	4.1	30
34	Scheduling algorithms for the lock scheduling problem. Procedia, Social and Behavioral Sciences, 2011, 20, 806-815.	0.5	29
35	Variable Neighborhood Search for Nurse Rostering Problems. Applied Optimization, 2003, , 153-172.	0.4	29
36	An Intelligent Hyper-Heuristic Framework for CHeSC 2011. Lecture Notes in Computer Science, 2012, , 461-466.	1.3	28

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37	A new hyper-heuristic as a general problem solver: an implementation in HyFlex. Journal of Scheduling, 2013, 16, 291-311.	1.9	27
38	An investigation on the generality level of selection hyper-heuristics under different empirical conditions. Applied Soft Computing Journal, 2013, 13, 3335-3353.	7.2	25
39	Polynomially solvable personnel rostering problems. European Journal of Operational Research, 2016, 249, 67-75.	5.7	25
40	Mashups by orchestration and widget-based personal environments. Data Technologies and Applications, 2012, 46, 383-428.	0.8	24
41	Formation and evolution of coronal rain observed by SDO/AIA on February 22, 2012. Astronomy and Astrophysics, 2015, 577, A136.	5.1	24
42	Statistical properties of coronal hole rotation rates: Are they linked to the solar interior?. Astronomy and Astrophysics, 2017, 603, A134.	5.1	24
43	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
44	Ubiquitous web navigation through harvesting embedded semantic data: A mobile scenario. Integrated Computer-Aided Engineering, 2012, 19, 93-109.	4.6	20
45	An improved best-fit heuristic for the orthogonal strip packing problem. International Transactions in Operational Research, 2013, 20, 711-730.	2.7	19
46	A study of decision support models for online patient-to-room assignment planning. Annals of Operations Research, 2016, 239, 253-271.	4.1	19
47	Towards a reference model for timetabling and rostering. Annals of Operations Research, 2012, 194, 167-176.	4.1	15
48	Chance-constrained admission scheduling of elective surgical patients in a dynamic, uncertain setting. Operations Research for Health Care, 2019, 22, 100196.	1.2	15
49	Hyper-heuristics with a dynamic heuristic set for the home care scheduling problem. , 2010, , .		14
50	Merging model driven and ontology driven system development approaches pervasive computing perspective. , 2009, , .		13
51	Relaxation of Coverage Constraints in Hospital Personnel Rostering. Lecture Notes in Computer Science, 2003, , 129-147.	1.3	12
52	Outlier detection in relational data: A case study in geographical information systems. Expert Systems With Applications, 2012, 39, 4718-4728.	7.6	12
53	Boosting Metaheuristic Search Using Reinforcement Learning. Studies in Computational Intelligence, 2013, , 433-452.	0.9	10
54	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

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55	A multi criteria meta-heuristic approach to nurse rostering. , 0, , .		9
56	Context and Adaptivity in Context-Aware Pervasive Computing Environments. , 2009, , .		9
57	Configuring irace using surrogate configuration benchmarks. , 2017, , .		9
58	Evidence for Precursors of the Coronal Hole Jets in Solar Bright Points. Astrophysical Journal Letters, 2018, 855, L21.	8.3	9
59	Minimizing makespan on a single machine with release dates and inventory constraints. European Journal of Operational Research, 2020, 286, 115-128.	5.7	9
60	Mashups and widget orchestration. , 2011, , .		8
61	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
62	Nurse Rostering: A Complex Example of Personnel Scheduling with Perspectives. Studies in Computational Intelligence, 2013, , 129-153.	0.9	8
63	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
64	A Multi Agent System to Control Complexity in Multi Modal Transport. , 2006, , .		7
65	Tour Suggestion for Outdoor Activities. Lecture Notes in Computer Science, 2013, , 54-63.	1.3	7
66	Long-period oscillations of active region patterns: least-squares mapping on second-order curves. Astronomy and Astrophysics, 2017, 597, A93.	5.1	6
67	A Re-characterization of Hyper-Heuristics. Operations Research/ Computer Science Interfaces Series, 2018, , 75-89.	0.3	6
68	Semantic Mash-Up Personal and Pervasive Learning Environments (SMupple). Lecture Notes in Computer Science, 2010, , 501-504.	1.3	6
69	Visualization of networked collaboration in digital ecosystems through two-mode network patterns. , 2011, , .		4
70	Applying Algorithm Selection â€" a Case Study for the Generalised Assignment Problem. Electronic Notes in Discrete Mathematics, 2018, 69, 205-212.	0.4	4
71	A combined approach for analysing heuristic algorithms. Journal of Heuristics, 2019, 25, 591-628.	1.4	4
72	Automating Personnel Rostering by Learning Constraints Using Tensors. , 2019, , .		4

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73	A multi-start local search algorithm for the Hamiltonian completion problem on undirected graphs. Journal of Heuristics, 2020, 26, 743-769.	1.4	4
74	Local search for constrained graph clustering in biological networks. Computers and Operations Research, 2021, 132, 105299.	4.0	4
75	Semantic Components for Timetabling. Lecture Notes in Computer Science, 2005, , 17-33.	1.3	4
76	Embedded Semantics Empowering Context-Aware Pervasive Computing Environments. , 2009, , .		3
77	Characterization of Neighborhood Behaviours in a Multi-neighborhood Local Search Algorithm. Lecture Notes in Computer Science, 2016, , 234-239.	1.3	3
78	Quasi-oscillatory dynamics observed in ascending phase of the flare on March 6, 2012. Astronomy and Astrophysics, 2017, 600, A67.	5.1	3
79	The intermittent travelling salesman problem. International Transactions in Operational Research, 2020, 27, 525-548.	2.7	3
80	Fast Permutation Learning. Lecture Notes in Computer Science, 2012, , 292-306.	1.3	3
81	Utilizing Embedded Semantics for User-Driven Design of Pervasive Environments. Communications in Computer and Information Science, 2010, , 63-77.	0.5	3
82	Sympathetic agents assist route in route planning. , 2001, , .		2
83	Data Science Meets Optimization. Springer Proceedings in Mathematics and Statistics, 2017, , 13-20.	0.2	2
84	Ontology-Driven Adaptive and Pervasive Learning Environments â€" APLEs: An Interdisciplinary Approach. Communications in Computer and Information Science, 2011, , 99-115.	0.5	2
85	Designing trust with software agents: A case study. Journal of Information Communication and Ethics in Society, 2006, 4, 37-48.	1.5	1
86	Fast approximation of reach hierarchies in networks. , 2014, , .		1
87	Towards a Knowledge Base for Performance Data. , 2015, , .		1
88	Adaptive Multi-objective Local Search Algorithms for the Permutation Flowshop Scheduling Problem. Lecture Notes in Computer Science, 2019, , 241-256.	1.3	1
89	Data-driven Onboard Scheduling for an Autonomous Observation Satellite. , 2018, , .		1
90	Multi-facade and Ubiquitous Web Navigation and Access through Embedded Semantics. Lecture Notes in Computer Science, 2010, , 272-289.	1.3	1

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91	A Metaheuristic Approach to Compute Pure Nash Equilibria. Studies in Computational Intelligence, 2019, , 221-233.	0.9	1
92	Neural networked-assisted method for the nurse rostering problem. Computers and Industrial Engineering, 2022, 171, 108430.	6.3	1
93	Structural Similarities Between the Catalytic Domain of Threonine Deaminase and the Mammalian Serine Racemases. , 2010, , .		0
94	Solving Euclidean Steiner Tree Problems with Multi Swarm Optimization. , 2015, , .		0
95	Comparative sequence and structural analyses of neuroserpin. , 2010, , .		0
96	Omega Loops of Proteins in Homo Sapiens: Role in Diseases. Communications in Computer and Information Science, 2011, , 362-367.	0.5	0
97	Motivations for the Development of a Multi-objective Algorithm Configurator. , 2014, , .		0
98	Learning a Hidden Markov Model-Based Hyper-heuristic. Lecture Notes in Computer Science, 2015, , 74-88.	1.3	0
99	Declarative Local Search for Predicate Logic. Lecture Notes in Computer Science, 2019, , 340-346.	1.3	0