Andrea Schaerf

List of Publications by Year
in descending order

77	2,936	147801 31	182427 51
papers	citations	h-index	g-index

81	81	81	1401
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Local search approaches for the test laboratory scheduling problem with variable task grouping. Journal of Scheduling, 2023, 26, 457-477.	1.9	3
2	Educational timetabling: Problems, benchmarks, and state-of-the-art results. European Journal of Operational Research, 2023, 308, 1-18.	5.7	13
3	Algorithm selection and instance space analysis for curriculum-based course timetabling. Journal of Scheduling, 2022, 25, 35-58.	1.9	12
4	Multi-Neighborhood simulated annealing for the minimum interference frequency assignment problem. EURO Journal on Computational Optimization, 2022, 10, 100024.	2.4	5
5	Exact and metaheuristic approaches for unrelated parallel machine scheduling. Journal of Scheduling, 2022, 25, 507-534.	1.9	17
6	Multi-neighborhood simulated annealing for the sports timetabling competition ITC2021. Journal of Scheduling, 2022, 25, 301-319.	1.9	6
7	Solving a home energy management problem byÂSimulatedÂAnnealing. Optimization Letters, 2021, 15, 1553-1564.	1.6	4
8	Two-stage multi-neighborhood simulated annealing for uncapacitated examination timetabling. Computers and Operations Research, 2021, 132, 105300.	4.0	20
9	Modeling and solving the steelmaking and casting scheduling problem. International Transactions in Operational Research, 2020, 27, 57-90.	2.7	15
10	Solving the static INRC-II nurse rostering problem by simulated annealing based on large neighborhoods. Annals of Operations Research, 2020, 288, 95-113.	4.1	14
11	Local Search and Constraint Programming for a Real-World Examination Timetabling Problem. Lecture Notes in Computer Science, 2020, , 69-81.	1.3	2
12	The Second International Nurse Rostering Competition. Annals of Operations Research, 2019, 274, 171-186.	4.1	30
13	The practice and theory of automated timetabling (2016). Annals of Operations Research, 2019, 275, 1-2.	4.1	3
14	Modelling and solving the thesis defense timetabling problem. Journal of the Operational Research Society, 2019, 70, 1039-1050.	3.4	7
15	Modeling and solving a real-life multi-skill shift design problem. Annals of Operations Research, 2017, 252, 365-382.	4.1	9
16	Feature-based tuning of single-stage simulated annealing for examination timetabling. Annals of Operations Research, 2017, 252, 239-254.	4.1	22
17	Solving discrete lot-sizing and scheduling by simulated annealing and mixed integer programming. Computers and Industrial Engineering, 2017, 114, 235-243.	6.3	17
18	Dynamic patient admission scheduling with operating room constraints, flexible horizons, and patient delays. Journal of Scheduling, 2016, 19, 377-389.	1.9	47

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19	The Third International Timetabling Competition. Annals of Operations Research, 2016, 239, 69-75.	4.1	30
20	Feature-based tuning of simulated annealing applied to the curriculum-based course timetabling problem. Computers and Operations Research, 2016, 65, 83-92.	4.0	58
21	Comments on: An overview of curriculum-based course timetabling. Top, 2015, 23, 362-365.	1.6	2
22	XHSTT: an XML archive for high school timetabling problems in different countries. Annals of Operations Research, 2014, 218, 295-301.	4.1	43
23	The generalized balanced academic curriculum problem with heterogeneous classes. Annals of Operations Research, 2014, 218, 147-163.	4.1	4
24	The first international nurse rostering competition 2010. Annals of Operations Research, 2014, 218, 221-236.	4.1	59
25	Local search for a multi-drop multi-container loading problem. Journal of Heuristics, 2013, 19, 275-294.	1.4	48
26	Local search techniques for a routing-packing problem. Computers and Industrial Engineering, 2013, 66, 1138-1149.	6.3	46
27	The ${sc np-spec}$ Project. Intelligenza Artificiale, 2013, 7, 37-44.	1.6	1
28	Automated Shift Design and Break Scheduling. Studies in Computational Intelligence, 2013, , 109-127.	0.9	9
29	Modeling and solving the dynamic patient admission scheduling problem under uncertainty. Artificial Intelligence in Medicine, 2012, 56, 199-205.	6.5	56
30	Design, engineering, and experimental analysis of a simulated annealing approach to the post-enrolment course timetabling problem. Computers and Operations Research, 2012, 39, 1615-1624.	4.0	66
31	The balanced academic curriculum problem revisited. Journal of Heuristics, 2012, 18, 119-148.	1.4	27
32	Design and statistical analysis of a hybrid local search algorithm for course timetabling. Journal of Scheduling, 2012, 15, 49-61.	1.9	29
33	Benchmarking curriculum-based course timetabling: formulations, data formats, instances, validation, visualization, and results. Annals of Operations Research, 2012, 194, 59-70.	4.1	61
34	Hybrid metaheuristics for constrained portfolio selection problems. Quantitative Finance, 2011, 11, 1473-1487.	1.7	53
35	Tabu search techniques for the heterogeneous vehicle routing problem with time windows and carrier-dependent costs. Journal of Scheduling, 2011, 14, 601-615.	1.9	31
36	Local search and lower bounds for the patient admission scheduling problem. Computers and Operations Research, 2011, 38, 1452-1463.	4.0	70

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37	Setting the Research Agenda in Automated Timetabling: The Second International Timetabling Competition. INFORMS Journal on Computing, 2010, 22, 120-130.	1.7	171
38	A Hybrid LS-CP Solver for the Shifts and Breaks Design Problem. Lecture Notes in Computer Science, 2010, , 46-61.	1.3	8
39	Multi-neighborhood Local Search for the Patient Admission Problem. Lecture Notes in Computer Science, 2009, , 156-170.	1.3	3
40	Hybrid Local Search Techniques for the Generalized Balanced Academic Curriculum Problem. Lecture Notes in Computer Science, 2008, , 146-157.	1.3	8
41	A composite-neighborhood tabu search approach to the traveling tournament problem. Journal of Heuristics, 2007, 13, 189-207.	1.4	61
42	The minimum shift design problem. Annals of Operations Research, 2007, 155, 79-105.	4.1	38
43	Hybrid Local Search for Constrained Financial Portfolio Selection Problems. Lecture Notes in Computer Science, 2007, , 44-58.	1.3	10
44	EasyAnalyzer: An Object-Oriented Framework for the Experimental Analysis of Stochastic Local Search Algorithms. Lecture Notes in Computer Science, 2007, , 76-90.	1.3	5
45	Hybrid Local Search Techniques for the Resource-Constrained Project Scheduling Problem. Lecture Notes in Computer Science, 2007, , 57-68.	1.3	6
46	Measurability and Reproducibility in University Timetabling Research: Discussion and Proposals. Lecture Notes in Computer Science, 2007, , 40-49.	1.3	12
47	EasySyn++: A Tool for Automatic Synthesis of Stochastic Local Search Algorithms. Lecture Notes in Computer Science, 2007, , 177-181.	1.3	2
48	Neighborhood Portfolio Approach for Local Search Applied to Timetabling Problems. Mathematical Modelling and Algorithms, 2006, 5, 65-89.	0.5	70
49	Compiling problem specifications into SAT. Artificial Intelligence, 2005, 162, 89-120.	5.8	44
50	Theory and Practice of the Minimum Shift Design Problem. Operations Research/ Computer Science Interfaces Series, 2005, , 159-180.	0.3	0
51	Local search for shift design. European Journal of Operational Research, 2004, 153, 51-64.	5.7	55
52	Modelling and Solving Employee Timetabling Problems. Annals of Mathematics and Artificial Intelligence, 2003, 39, 41-59.	1.3	50
53	EASYLOCAL++: an object-oriented framework for the flexible design of local-search algorithms. Software - Practice and Experience, 2003, 33, 733-765.	3.6	77
54	Multi-neighbourhood Local Search with Application to Course Timetabling. Lecture Notes in Computer Science, 2003, , 262-275.	1.3	38

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55	The Minimum Shift Design Problem: Theory and Practice. Lecture Notes in Computer Science, 2003, , 593-604.	1.3	3
56	Local Search Techniques for Constrained Portfolio Selection Problems. Computational Economics, 2002, 20, 177-190.	2.6	102
57	Tabu Search Techniques for Examination Timetabling. Lecture Notes in Computer Science, 2001, , 104-117.	1.3	94
58	Compiling Problem Specifications into SAT. Lecture Notes in Computer Science, 2001, , 387-401.	1.3	5
59	LOCAL++: A C++ framework for local search algorithms. Software - Practice and Experience, 2000, 30, 233-257.	3.6	5
60	NP-SPEC: an executable specification language for solving all problems in NP. Computer Languages, Systems and Structures, 2000, 26, 165-195.	0.3	28
61	Scheduling Sport Tournaments using Constraint Logic Programming. Constraints, 1999, 4, 43-65.	0.7	34
62	A Survey of Automated Timetabling. Artificial Intelligence Review, 1999, 13, 87-127.	15.7	450
63	Local search techniques for large high school timetabling problems. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 1999, 29, 368-377.	2.9	88
64	The Alma Project, or How First-Order Logic Can Help us in Imperative Programming. Lecture Notes in Computer Science, 1999, , 89-113.	1.3	5
65	AL-log: Integrating Datalog and Description Logics. Journal of Intelligent Information Systems, 1998, 10, 227-252.	3.9	199
66	Alma-O. ACM Transactions on Programming Languages and Systems, 1998, 20, 1014-1066.	2.1	35
67	np-spec: An Executable Specification Language for Solving All Problems in NP. Lecture Notes in Computer Science, 1998, , 16-30.	1.3	14
68	Search and imperative programming. , 1997, , .		21
69	Deduction in Concept Languages: from Subsumption to Instance Checking. Journal of Logic and Computation, 1994, 4, 423-452.	0.8	67
70	Reasoning with individuals in concept languages. Data and Knowledge Engineering, 1994, 13, 141-176.	3.4	61
71	Queries, rules and definitions as epistemic sentences in concept languages. Lecture Notes in Computer Science, 1994, , 113-132.	1.3	7
72	On the complexity of the instance checking problem in concept languages with existential quantification. Journal of Intelligent Information Systems, 1993, 2, 265-278.	3.9	61

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73	Reasoning with individuals in concept languages. Lecture Notes in Computer Science, 1993, , 108-119.	1.3	3
74	On the complexity of the instance checking problem in concept languages with existential quantification. Lecture Notes in Computer Science, 1993, , 508-517.	1.3	3
75	Querying concept-based knowledge bases. , 1991, , 107-123.		3
76	A hybrid system with datalog and concept languages. Lecture Notes in Computer Science, 1991, , 88-97.	1.3	23
77	Simulations of Fuel Consumption and Emissions in Typical Traffic Circumstances. , 0, , .		2