

Andreas T Ernst

List of Publications by Year in descending order

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106
papers

5,234
citations

172207

29
h-index

91712

69
g-index

109
all docs

109
docs citations

109
times ranked

3018
citing authors

#	ARTICLE	IF	CITATIONS
1	Staff scheduling and rostering: A review of applications, methods and models. <i>European Journal of Operational Research</i> , 2004, 153, 3-27.	3.5	934
2	Efficient algorithms for the uncapacitated single allocation p-hub median problem. <i>Location Science</i> , 1996, 4, 139-154.	0.2	466
3	An Annotated Bibliography of Personnel Scheduling and Rostering. <i>Annals of Operations Research</i> , 2004, 127, 21-144.	2.6	332
4	ICE: a statistical approach to identifying endmembers in hyperspectral images. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2004, 42, 2085-2095.	2.7	327
5	Solution algorithms for the capacitated single allocation hub location problem. <i>Annals of Operations Research</i> , 1999, 86, 141-159.	2.6	258
6	Exact and heuristic algorithms for the uncapacitated multiple allocation p-hub median problem. <i>European Journal of Operational Research</i> , 1998, 104, 100-112.	3.5	257
7	The capacitated multiple allocation hub location problem: Formulations and algorithms. <i>European Journal of Operational Research</i> , 2000, 120, 614-631.	3.5	232
8	Hub Arc Location Problems: Part I – Introduction and Results. <i>Management Science</i> , 2005, 51, 1540-1555.	2.4	174
9	Hub Arc Location Problems: Part II – Formulations and Optimal Algorithms. <i>Management Science</i> , 2005, 51, 1556-1571.	2.4	127
10	An Exact Solution Approach Based on Shortest-Paths for p -Hub Median Problems. <i>INFORMS Journal on Computing</i> , 1998, 10, 149-162.	1.0	120
11	Preprocessing and cutting for multiple allocation hub location problems. <i>European Journal of Operational Research</i> , 2004, 155, 638-653.	3.5	118
12	Uncapacitated single and multiple allocation p-hub center problems. <i>Computers and Operations Research</i> , 2009, 36, 2230-2241.	2.4	113
13	Hub Location Problems. , 2002, , 373-407.		109
14	Heuristic and exact algorithms for scheduling aircraft landings. <i>Networks</i> , 1999, 34, 229-241.	1.6	101
15	Comparison of Algorithms for the Degree Constrained Minimum Spanning Tree. <i>Journal of Heuristics</i> , 2001, 7, 587-611.	1.1	89
16	Land-use and sustainability under intersecting global change and domestic policy scenarios: Trajectories for Australia to 2050. <i>Global Environmental Change</i> , 2016, 38, 130-152.	3.6	85
17	A 2-phase algorithm for solving the single allocation p-hub center problem. <i>Computers and Operations Research</i> , 2009, 36, 3143-3151.	2.4	78
18	Algorithms for large scale Shift Minimisation Personnel Task Scheduling Problems. <i>European Journal of Operational Research</i> , 2012, 219, 34-48.	3.5	61

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19	Modelling Australian land use competition and ecosystem services with food price feedbacks at high spatial resolution. <i>Environmental Modelling and Software</i> , 2015, 69, 141-154.	1.9	58
20	A Stackelberg hub arc location model for a competitive environment. <i>Computers and Operations Research</i> , 2014, 47, 27-41.	2.4	53
21	Decomposition for Large-scale Optimization Problems with Overlapping Components. , 2019, , .		50
22	Single allocation p-hub median location and routing problem with simultaneous pick-up and delivery. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , 2017, 108, 141-159.	3.7	47
23	Heuristic and exact algorithms for scheduling aircraft landings. , 1999, 34, 229.		47
24	Parallel ant colony optimization for resource constrained job scheduling. <i>Annals of Operations Research</i> , 2016, 242, 355-372.	2.6	43
25	An Integrated Optimization Model for Train Crew Management. <i>Annals of Operations Research</i> , 2001, 108, 211-224.	2.6	41
26	Incremental network design with shortest paths. <i>European Journal of Operational Research</i> , 2014, 238, 675-684.	3.5	41
27	A mixed integer programming model for long term capacity expansion planning: A case study from The Hunter Valley Coal Chain. <i>European Journal of Operational Research</i> , 2012, 220, 210-224.	3.5	40
28	Integrating ACO and Constraint Propagation. <i>Lecture Notes in Computer Science</i> , 2004, , 166-177.	1.0	40
29	Exact Solutions to Task Allocation Problems. <i>Management Science</i> , 2006, 52, 1634-1646.	2.4	38
30	Mathematical models for the berth allocation problem in dry bulk terminals. <i>Journal of Scheduling</i> , 2017, 20, 459-473.	1.3	38
31	A Benders decomposition approach to transmission expansion planning considering energy storage. <i>Energy</i> , 2016, 112, 795-803.	4.5	34
32	A new formulation and a column generation-based heuristic for the multiple depot vehicle scheduling problem. <i>Transportation Research Part B: Methodological</i> , 2018, 118, 457-487.	2.8	33
33	Constraint-based ACO for a shared resource constrained scheduling problem. <i>International Journal of Production Economics</i> , 2013, 141, 230-242.	5.1	29
34	Throughput optimisation in a coal export system with multiple terminals and shared resources. <i>Computers and Industrial Engineering</i> , 2019, 134, 37-51.	3.4	26
35	A hybrid differential evolution algorithm with column generation for resource constrained job scheduling. <i>Computers and Operations Research</i> , 2019, 109, 273-287.	2.4	24
36	The 2-allocation p-hub median problem and a modified Benders decomposition method for solving hub location problems. <i>Computers and Operations Research</i> , 2019, 104, 375-393.	2.4	23

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37	A faster version of the ASG algorithm. Applied Mathematics Letters, 1994, 7, 23-27.	1.5	22
38	Heuristic decomposition approaches for an integrated task scheduling and personnel rostering problem. Computers and Operations Research, 2016, 76, 60-72.	2.4	22
39	A Bi-Level Optimization Model for Grouping Constrained Storage Location Assignment Problems. IEEE Transactions on Cybernetics, 2018, 48, 385-398.	6.2	21
40	Solving hub arc location problems on a cluster of workstations. Parallel Computing, 2003, 29, 555-574.	1.3	19
41	Resource constraint scheduling with a fractional shared resource. Operations Research Letters, 2011, , .	0.5	18
42	A Lagrangian-ACO matheuristic for car sequencing. EURO Journal on Computational Optimization, 2014, 2, 279-296.	1.5	18
43	A genetic programming-based hyper-heuristic approach for storage location assignment problem. , 2014, , .		18
44	Scheduling Appointments at Trade Events for the Australian Tourist Commission. Interfaces, 2003, 33, 12-23.	1.6	16
45	An intermodal hub location problem for container distribution in Indonesia. Computers and Operations Research, 2019, 104, 415-432.	2.4	16
46	The Personnel Task Scheduling Problem. Applied Optimization, 2001, , 343-368.	0.4	16
47	An Exact Method for the Minimum Cardinality Problem in the Treatment Planning of Intensity-Modulated Radiotherapy. INFORMS Journal on Computing, 2009, 21, 562-574.	1.0	15
48	Generalization of machine learning for problem reduction: a case study on travelling salesman problems. OR Spectrum, 2021, 43, 607-633.	2.1	15
49	Using Statistical Measures and Machine Learning for Graph Reduction to Solve Maximum Weight Clique Problems. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 1746-1760.	9.7	14
50	Solution Merging in Matheuristics for Resource Constrained Job Scheduling. Algorithms, 2020, 13, 256.	1.2	13
51	Hybridizing Beam-ACO with Constraint Programming for Single Machine Job Scheduling. Lecture Notes in Computer Science, 2009, , 30-44.	1.0	13
52	Approaches for solving the container stacking problem with route distance minimization and stack rearrangement considerations. Computers and Operations Research, 2014, 52, 68-83.	2.4	12
53	Heuristic algorithms for the single allocation p-hub center problem with routing considerations. OR Spectrum, 2019, 41, 99-145.	2.1	12
54	Static and Dynamic Order Scheduling for Recreational Rental Vehicles at Tourism Holdings Limited. Interfaces, 2007, 37, 334-341.	1.6	11

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55	An efficient Lagrangean heuristic for rental vehicle scheduling. <i>Computers and Operations Research</i> , 2011, 38, 216-226.	2.4	11
56	Scheduling medical residents'™ training at university hospitals. <i>European Journal of Operational Research</i> , 2019, 274, 253-266.	3.5	11
57	Large neighbourhood search based on mixed integer programming and ant colony optimisation for car sequencing. <i>International Journal of Production Research</i> , 2020, 58, 2696-2711.	4.9	11
58	A hybrid Lagrangian Particle Swarm Optimization Algorithm for the degree-constrained minimum spanning tree problem. , 2010, , .		10
59	New cutting-planes for the time- and/or precedence-constrained ATSP and directed VRP. <i>Mathematical Methods of Operations Research</i> , 2007, 66, 69-98.	0.4	9
60	Dynamic scheduling of recreational rental vehicles with revenue management extensions. <i>Journal of the Operational Research Society</i> , 2010, 61, 1133-1143.	2.1	9
61	Car sequencing with constraint-based ACO. , 2011, , .		9
62	Solving the maximum edge disjoint path problem using a modified Lagrangian particle swarm optimisation hybrid. <i>European Journal of Operational Research</i> , 2021, 293, 847-862.	3.5	9
63	Hybrids of Integer Programming and ACO for Resource Constrained Job Scheduling. <i>Lecture Notes in Computer Science</i> , 2014, , 130-144.	1.0	9
64	Boosting ant colony optimization via solution prediction and machine learning. <i>Computers and Operations Research</i> , 2022, 143, 105769.	2.4	9
65	Lagrangian Particle Swarm Optimization for a resource constrained machine scheduling problem. , 2012, , .		8
66	Resource Constrained Job Scheduling with Parallel Constraint-Based ACO. <i>Lecture Notes in Computer Science</i> , 2017, , 266-278.	1.0	8
67	Medium-Term Rail Scheduling for an Iron Ore Mining Company. <i>Interfaces</i> , 2014, 44, 222-240.	1.6	7
68	Flexible flow shop with dedicated buffers. <i>Discrete Applied Mathematics</i> , 2019, 261, 148-163.	0.5	7
69	Transmission expansion planning considering energy storage. , 2014, , .		6
70	History-dependent scheduling: Models and algorithms for scheduling with general precedence and sequence dependence. <i>Computers and Operations Research</i> , 2015, 64, 245-261.	2.4	6
71	Towards solving large-scale precedence constrained production scheduling problems in mining. , 2017, , .		6
72	Maximising the Net Present Value of Project Schedules Using CMSA and Parallel ACO. <i>Lecture Notes in Computer Science</i> , 2019, , 16-30.	1.0	6

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73	Rail Crew Scheduling and Rostering Optimization Algorithms. Lecture Notes in Economics and Mathematical Systems, 2001, , 53-71.	0.3	6
74	Rail schedule optimisation in the hunter valley coal chain. RAIRO - Operations Research, 2015, 49, 413-434.	1.0	5
75	An Integer Programming based Ant Colony Optimisation Method for Nurse Rostering. , 2017, , .		5
76	A new two-stage heuristic for the recreational vehicle scheduling problem. Computers and Operations Research, 2018, 91, 59-78.	2.4	5
77	A merge search algorithm and its application to the constrained pit problem in mining. , 2018, , .		5
78	Scaling Up Solutions to Storage Location Assignment Problems by Genetic Programming. Lecture Notes in Computer Science, 2014, , 691-702.	1.0	5
79	A Biased Random Key Genetic Algorithm with Rollout Evaluations for the Resource Constraint Job Scheduling Problem. Lecture Notes in Computer Science, 2019, , 549-560.	1.0	5
80	An exact method for minimizing the total treatment time in intensity-modulated radiotherapy. Journal of the Operational Research Society, 2012, 63, 1447-1456.	2.1	4
81	Genetic programming approach to learning multi-pass heuristics for resource constrained job scheduling. , 2018, , .		4
82	New partial aggregations for multicommodity network flow problems: An application to the fixed-charge network design problem. Computers and Operations Research, 2021, 136, 105505.	2.4	4
83	Combined Aggregation and Column Generation for Land-Use Trade-Off Optimisation. IFIP Advances in Information and Communication Technology, 2015, , 455-466.	0.5	4
84	A restricted neighbourhood Tabu Search for Storage Location Assignment Problem. , 2015, , .		3
85	New models and algorithms for the container stack rearrangement problem by yard cranes in maritime ports. EURO Journal on Transportation and Logistics, 2017, 6, 307-348.	1.3	3
86	Reformulations and Computational Results for the Uncapacitated Single Allocation Hub Covering Problem. Lecture Notes in Management and Industrial Engineering, 2018, , 133-148.	0.3	3
87	Efficient Models, Formulations and Algorithms for Some Variants of Fixed Interval Scheduling Problems. Lecture Notes in Management and Industrial Engineering, 2018, , 43-69.	0.3	3
88	A Modified Benders Method for the Single- and Multiple Allocation P-Hub Median Problems. Operations Research Proceedings: Papers of the Annual Meeting = Vorträge Der Jahrestagung / DGOR, 2018, , 135-141.	0.1	3
89	Distribution and Inventory Planning in a Supply Chain Under Transportation Route Disruptions and Uncertain Demands. International Journal of Information Systems and Supply Chain Management, 2019, 12, 47-71.	0.6	3
90	Symmetry breaking of identical projects in the high-multiplicity RCPSP/max. Journal of the Operational Research Society, 2019, , 1-22.	2.1	3

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91	Optimal Two-commodity Flows with Non-linear Cost Functions. Journal of the Operational Research Society, 1995, 46, 1192-1107.	2.1	2
92	Strip packing with hybrid ACO: Placement order is learnable. , 2008, , .		2
93	Scalable Multi Swarm-Based Algorithms with Lagrangian Relaxation for Constrained Problems. , 2013, , .		2
94	Locating and sizing energy storage systems for distribution feeder expansion planning. , 2015, , .		2
95	A Triplet-Based Exact Method for the Shift Minimisation Personnel Task Scheduling Problem. Lecture Notes in Computer Science, 2015, , 59-70.	1.0	2
96	An improved merge search algorithm for the constrained pit problem in open-pit mining. , 2019, , .		2
97	Locomotive fuel management with inline refueling. European Journal of Operational Research, 2021, 293, 1077-1096.	3.5	2
98	Taming Wind Energy with Battery Storage. , 2008, , 199-204.		2
99	Optimal control of network flows with convex cost and state constraints. Optimal Control Applications and Methods, 2000, 21, 21-45.	1.3	1
100	A parallel optimisation approach for the realisation problem in intensity modulated radiotherapy treatment planning. Computational Optimization and Applications, 2015, 60, 441-477.	0.9	1
101	A linear programming based iterative heuristic for the recreational vehicle scheduling problem. , 2016, , .		1
102	A benchmark dataset for the multiple depot vehicle scheduling problem. Data in Brief, 2019, 22, 484-487.	0.5	1
103	Instance space analysis for the car sequencing problem. Annals of Operations Research, 0, , .	2.6	1
104	A Population-based Local Search Technique with Random Descent and Jump for the Steiner Tree Problem in Graphs. , 2016, , .		0
105	Automatic decomposition of mixed integer programs for lagrangian relaxation using a multiobjective approach. , 2020, , .		0
106	A Simultaneous Magnanti-Wong Method to Accelerate Benders Decomposition for the Metropolitan Container Transportation Problem. Operations Research, 2022, 70, 1531-1559.	1.2	0