Rhyd Lewis

List of Publications by Year
in descending order

33 papers	1,004 citations	687363 13 h-index	454955 30 g-index
34 all docs	34 docs citations	34 times ranked	731 citing authors

#	Article	IF	Citations
1	Exact and approximate methods for the score-constrained packing problem. European Journal of Operational Research, 2022, 302, 847-859.	5.7	1
2	Finding fixed-length circuits and cycles in undirected edge-weighted graphs: an application with street networks. Journal of Heuristics, 2022, 28, 259-285.	1.4	1
3	The maximum happy induced subgraph problem: Bounds and algorithms. Computers and Operations Research, 2021, 126, 105114.	4.0	3
4	A Heuristic Algorithm for School Bus Routing with Bus Stop Selection. Lecture Notes in Computer Science, 2021, , 202-218.	1.3	2
5	Editorial for the Special Issue on â€œAlgorithms for Graphs and Networksâ€. Algorithms, 2020, 13, 292.	2.1	0
6	Constructing operating theatre schedules using partitioned graph colouring techniques. Health Systems, 2020, 10, 1-12.	1.2	5
7	Effects of update frequencies in a dynamic capacitated arc routing problem. Networks, 2020, 76, 522-538.	2.7	12
8	Algorithms for Finding Shortest Paths in Networks with Vertex Transfer Penalties. Algorithms, 2020, 13, 269.	2.1	16
9	Can School Enrolment and Performance be Improved by Maximizing Studentsâ€™ Sense of Choice in Elective Subjects?. Journal of Learning Analytics, 2020, 7, 75-87.	2.4	1
10	Tackling the maximum happy vertices problem in large networks. 4or, 2020, 18, 507-527.	1.6	3
11	Evaluating the influence of parameter setup on the performance of heuristics for the graph colouring problem. International Journal of Metaheuristics, 2020, 7, 352.	0.1	1
12	Finding happiness: An analysis of the maximum happy vertices problem. Computers and Operations Research, 2019, 103, 265-276.	4.0	27
13	Tackling the edge dynamic graph colouring problem with and without future adjacency information. Journal of Heuristics, 2018, 24, 321-343.	1.4	9
14	A heuristic algorithm for finding cost-effective solutions to real-world school bus routing problems. Journal of Discrete Algorithms, 2018, 52-53, 2-17.	0.7	7
15	How to Pack Trapezoids: Exact and Evolutionary Algorithms. IEEE Transactions on Evolutionary Computation, 2016, , 1-1.	10.0	0
16	Creating seating plans: a practical application. Journal of the Operational Research Society, 2016, 67, 1353-1362.	3.4	18
17	Graph Coloring and Recombination. , 2015, , 1239-1254.		4
18	Analysing the effects of solution space connectivity with an effective metaheuristic for the course timetabling problem. European Journal of Operational Research, 2015, 240, 637-648.	5.7	46

#	Article	IF	Citations
19	Towards objective measures of algorithm performance across instance space. Computers and Operations Research, 2014, 45, 12-24.	4.0	130
20	The â€˜Engagedâ€™ Interaction: Important Considerations for the HCI Design and Development of a Web Application for Solving a Complex Combinatorial Optimization Problem. World Journal of Computer Application and Technology, 2013, 1, 75-82.	0.8	3
21	A wide-ranging computational comparison of high-performance graph colouring algorithms. Computers and Operations Research, 2012, 39, 1933-1950.	4.0	23
22	An incomplete m-exchange algorithm for solving the large-scale multi-scenario knapsack problem. Computers and Operations Research, 2012, 39, 1988-2000.	4.0	11
23	A time-dependent metaheuristic algorithm for post enrolment-based course timetabling. Annals of Operations Research, 2012, 194, 273-289.	4.1	23
24	Combining Heuristic and Exact Methods to Solve the Vehicle Routing Problem with Pickups, Deliveries and Time Windows. Lecture Notes in Computer Science, 2012, , 63-74.	1.3	7
25	On the application of graph colouring techniques in round-robin sports scheduling. Computers and Operations Research, 2011, 38, 190-204.	4.0	37
26	An investigation into two bin packing problems with ordering and orientation implications. European Journal of Operational Research, 2011, 213, 52-65.	5.7	11
27	Revisiting the Restricted Growth Function Genetic Algorithm for Grouping Problems. Evolutionary Computation, 2011, 19, 693-704.	3.0	9
28	A worst case analysis of a dynamic programming-based heuristic algorithm for 2D unconstrained guillotine cutting. European Journal of Operational Research, 2010, 202, 368-378.	5.7	7
29	Setting the Research Agenda in Automated Timetabling: The Second International Timetabling Competition. INFORMS Journal on Computing, 2010, 22, 120-130.	1.7	171
30	A general-purpose hill-climbing method for order independent minimum grouping problems: A case study in graph colouring and bin packing. Computers and Operations Research, 2009, 36, 2295-2310.	4.0	56
31	Finding Feasible Timetables Using Group-Based Operators. IEEE Transactions on Evolutionary Computation, 2007, 11, 397-413.	10.0	54
32	A survey of metaheuristic-based techniques for University Timetabling problems. OR Spectrum, 2007, 30, 167-190.	3.4	213
33	Metaheuristics can solve sudoku puzzles. Journal of Heuristics, 2007, 13, 387-401.	1.4	92