

# Rhyd Lewis

## List of Publications by Year in descending order

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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	A survey of metaheuristic-based techniques for University Timetabling problems. OR Spectrum, 2007, 30, 167-190.	3.4	213
2	Setting the Research Agenda in Automated Timetabling: The Second International Timetabling Competition. INFORMS Journal on Computing, 2010, 22, 120-130.	1.7	171
3	Towards objective measures of algorithm performance across instance space. Computers and Operations Research, 2014, 45, 12-24.	4.0	130
4	Metaheuristics can solve sudoku puzzles. Journal of Heuristics, 2007, 13, 387-401.	1.4	92
5	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
6	Finding Feasible Timetables Using Group-Based Operators. IEEE Transactions on Evolutionary Computation, 2007, 11, 397-413.	10.0	54
7	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
8	On the application of graph colouring techniques in round-robin sports scheduling. Computers and Operations Research, 2011, 38, 190-204.	4.0	37
9	Finding happiness: An analysis of the maximum happy vertices problem. Computers and Operations Research, 2019, 103, 265-276.	4.0	27
10	A wide-ranging computational comparison of high-performance graph colouring algorithms. Computers and Operations Research, 2012, 39, 1933-1950.	4.0	23
11	A time-dependent metaheuristic algorithm for post enrolment-based course timetabling. Annals of Operations Research, 2012, 194, 273-289.	4.1	23
12	Creating seating plans: a practical application. Journal of the Operational Research Society, 2016, 67, 1353-1362.	3.4	18
13	Algorithms for Finding Shortest Paths in Networks with Vertex Transfer Penalties. Algorithms, 2020, 13, 269.	2.1	16
14	Effects of update frequencies in a dynamic capacitated arc routing problem. Networks, 2020, 76, 522-538.	2.7	12
15	An investigation into two bin packing problems with ordering and orientation implications. European Journal of Operational Research, 2011, 213, 52-65.	5.7	11
16	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
17	Revisiting the Restricted Growth Function Genetic Algorithm for Grouping Problems. Evolutionary Computation, 2011, 19, 693-704.	3.0	9
18	Tackling the edge dynamic graph colouring problem with and without future adjacency information. Journal of Heuristics, 2018, 24, 321-343.	1.4	9

#	ARTICLE	IF	CITATIONS
19	A worst case analysis of a dynamic programming-based heuristic algorithm for 2D unconstrained guillotine cutting. <i>European Journal of Operational Research</i> , 2010, 202, 368-378.	5.7	7
20	A heuristic algorithm for finding cost-effective solutions to real-world school bus routing problems. <i>Journal of Discrete Algorithms</i> , 2018, 52-53, 2-17.	0.7	7
21	Combining Heuristic and Exact Methods to Solve the Vehicle Routing Problem with Pickups, Deliveries and Time Windows. <i>Lecture Notes in Computer Science</i> , 2012, , 63-74.	1.3	7
22	Constructing operating theatre schedules using partitioned graph colouring techniques. <i>Health Systems</i> , 2020, 10, 1-12.	1.2	5
23	Graph Coloring and Recombination. , 2015, , 1239-1254.		4
24	Tackling the maximum happy vertices problem in large networks. <i>4or</i> , 2020, 18, 507-527.	1.6	3
25	The maximum happy induced subgraph problem: Bounds and algorithms. <i>Computers and Operations Research</i> , 2021, 126, 105114.	4.0	3
26	The "Engaged"™ Interaction: Important Considerations for the HCI Design and Development of a Web Application for Solving a Complex Combinatorial Optimization Problem. <i>World Journal of Computer Application and Technology</i> , 2013, 1, 75-82.	0.8	3
27	A Heuristic Algorithm for School Bus Routing with Bus Stop Selection. <i>Lecture Notes in Computer Science</i> , 2021, , 202-218.	1.3	2
28	Can School Enrolment and Performance be Improved by Maximizing Students'™ Sense of Choice in Elective Subjects?. <i>Journal of Learning Analytics</i> , 2020, 7, 75-87.	2.4	1
29	Evaluating the influence of parameter setup on the performance of heuristics for the graph colouring problem. <i>International Journal of Metaheuristics</i> , 2020, 7, 352.	0.1	1
30	Exact and approximate methods for the score-constrained packing problem. <i>European Journal of Operational Research</i> , 2022, 302, 847-859.	5.7	1
31	Finding fixed-length circuits and cycles in undirected edge-weighted graphs: an application with street networks. <i>Journal of Heuristics</i> , 2022, 28, 259-285.	1.4	1
32	How to Pack Trapezoids: Exact and Evolutionary Algorithms. <i>IEEE Transactions on Evolutionary Computation</i> , 2016, , 1-1.	10.0	0
33	Editorial for the Special Issue on "Algorithms for Graphs and Networks". <i>Algorithms</i> , 2020, 13, 292.	2.1	0