Mhand Hifi

List of Publications by Year
in descending order

83 papers	**1,551** citations	279798 **23** h-index	345221 **36** g-index
86 all docs	**86** docs citations	**86** times ranked	**646** citing authors

#	Article	IF	Citations
1	A Literature Review on Circle and Sphere Packing Problems: Models and Methodologies. Advances in Operations Research, 2009, 2009, 1-22.	0.4	136
2	An improvement of viswanathan and bagchi's exact algorithm for constrained two-dimensional cutting stock. Computers and Operations Research, 1997, 24, 727-736.	4.0	69
3	A beam search algorithm for the circular packing problem. Computers and Operations Research, 2009, 36, 1513-1528.	4.0	64
4	Exact algorithms for the guillotine strip cutting/packing problem. Computers and Operations Research, 1998, 25, 925-940.	4.0	61
5	Approximate algorithms for constrained circular cutting problems. Computers and Operations Research, 2004, 31, 675-694.	4.0	61
6	Exact Algorithms for Large-Scale Unconstrained Two and Three Staged Cutting Problems. Computational Optimization and Applications, 2001, 18, 63-88.	1.6	59
7	A reactive local search-based algorithm for the disjunctively constrained knapsack problem. Journal of the Operational Research Society, 2006, 57, 718-726.	3.4	53
8	Title is missing!. Journal of Combinatorial Optimization, 2001, 5, 465-494.	1.3	51
9	A Linear Programming Approach for the Three-Dimensional Bin-Packing Problem. Electronic Notes in Discrete Mathematics, 2010, 36, 993-1000.	0.4	45
10	The DH/KD algorithm: a hybrid approach for unconstrained two-dimensional cutting problems. European Journal of Operational Research, 1997, 97, 41-52.	5.7	44
11	A simulated annealing approach for the circular cutting problem. European Journal of Operational Research, 2004, 159, 430-448.	5.7	44
12	A column generation method for the multiple-choice multi-dimensional knapsack problem. Computational Optimization and Applications, 2010, 46, 51-73.	1.6	44
13	A dynamic adaptive local search algorithm for the circular packing problem. European Journal of Operational Research, 2007, 183, 1280-1294.	5.7	38
14	An Exact Algorithm for Constrained Two-Dimensional Two-Staged Cutting Problems. Operations Research, 2005, 53, 140-150.	1.9	37
15	A local search-based method for sphere packing problems. European Journal of Operational Research, 2019, 274, 482-500.	5.7	32
16	An iterative rounding search-based algorithm for the disjunctively constrained knapsack problem. Engineering Optimization, 2014, 46, 1109-1122.	2.6	29
17	An algorithm for the disjunctively constrained knapsack problem. International Journal of Operational Research, 2012, 13, 22.	0.2	28
18	Exact algorithms for unconstrained three-dimensional cutting problems: a comparative study. Computers and Operations Research, 2004, 31, 657-674.	4.0	27

#	Article	IF	Citations
19	Algorithms for the Constrained Two-Staged Two-Dimensional Cutting Problem. INFORMS Journal on Computing, 2008, 20, 212-221.	1.7	27
20	A hybrid multi-objective evolutionary optimization approach for the robust vehicle routing problem. Applied Soft Computing Journal, 2018, 71, 980-993.	7.2	27
21	An exact algorithm for the knapsack sharing problem. Computers and Operations Research, 2005, 32, 1311-1324.	4.0	25
22	Strip generation algorithms for constrained two-dimensional two-staged cutting problems. European Journal of Operational Research, 2006, 172, 515-527.	5.7	25
23	An augmented beam search-based algorithm for the circular open dimension problem. Computers and Industrial Engineering, 2011, 61, 373-381.	6.3	25
24	Local branching-based algorithms for the disjunctively constrained knapsack problem. Computers and Industrial Engineering, 2011, 60, 811-820.	6.3	24
25	Dynamic Programming and Hill-Climbing Techniques for Constrained Two-Dimensional Cutting Stock Problems. Journal of Combinatorial Optimization, 2004, 8, 65-84.	1.3	23
26	Adaptive and restarting techniques-based algorithms for circular packing problems. Computational Optimization and Applications, 2008, 39, 17-35.	1.6	23
27	Algorithms for the circular twoâ€dimensional open dimension problem. International Transactions in Operational Research, 2008, 15, 685-704.	2.7	23
28	Hybrid algorithms for the Multiple-choice Multi-dimensional Knapsack Problem. International Journal of Operational Research, 2009, 5, 89.	0.2	22
29	Best-first search and dynamic programming methods for cutting problems: The cases of one or more stock plates. Computers and Industrial Engineering, 1997, 32, 187-205.	6.3	21
30	A new robust criterion for the vehicle routing problem with uncertain travel time. Computers and Industrial Engineering, 2017, 112, 607-615.	6.3	21
31	Packing circles in the smallest circle: an adaptive hybrid algorithm. Journal of the Operational Research Society, 2011, 62, 1917-1930.	3.4	19
32	A swarm optimization-based search algorithm for the quadratic knapsack problem with conflict Graphs. Expert Systems With Applications, 2020, 148, 113224.	7.6	19
33	The Knapsack Sharing Problem: An Exact Algorithm. Journal of Combinatorial Optimization, 2002, 6, 35-54.	1.3	16
34	Hybrid greedy heuristics based on linear programming for the threeâ€dimensional single binâ€size bin packing problem. International Transactions in Operational Research, 2014, 21, 59-79.	2.7	16
35	Sensitivity of the Optimum to Perturbations of the Profit or Weight of an Item in the Binary Knapsack Problem. Journal of Combinatorial Optimization, 2005, 10, 239-260.	1.3	15
36	Beam search and non-linear programming tools for the circular packing problem. International Journal of Mathematics in Operational Research, 2009, 1, 476.	0.2	14

#	Article	IF	Citations
37	An Efficient Algorithm for the Knapsack Sharing Problem. Computational Optimization and Applications, 2002, 23, 27-45.	1.6	13
38	Solving the circular open dimension problem by using separate beams and look-ahead strategies. Computers and Operations Research, 2013, 40, 1243-1255.	4.0	13
39	Sensitivity analysis of the setup knapsack problem to perturbation of arbitrary profits or weights. International Transactions in Operational Research, 2018, 25, 637-666.	2.7	11
40	A hybrid guided neighborhood search for the disjunctively constrained knapsack problem. Cogent Engineering, 2015, 2, 1068969.	2.2	10
41	Discrete scenario-based optimization for the robust vehicle routing problem: The case of time windows under delay uncertainty. Computers and Industrial Engineering, 2020, 145, 106491.	6.3	10
42	Sensitivity analysis of the optimum to perturbation of the profit of a subset of items in the binary knapsack problem. Discrete Optimization, 2008, 5, 755-761.	0.9	9
43	Lagrangian heuristic-based neighbourhood search for the multiple-choice multi-dimensional knapsack problem. Engineering Optimization, 2015, 47, 1619-1636.	2.6	9
44	A first level scatter search for disjunctively constrained knapsack problems. , 2011, , .		8
45	A parallel algorithm for constrained two-staged two-dimensional cutting problems. Computers and Industrial Engineering, 2012, 62, 177-189.	6.3	8
46	A New Efficient Heuristic for the Minimum Set Covering Problem. Journal of the Operational Research Society, 1995, 46, 1260-1268.	3.4	7
47	An exact decomposition algorithm for the generalized knapsack sharing problem. European Journal of Operational Research, 2016, 252, 761-774.	5.7	7
48	A hybrid population-based algorithm for the bi-objective quadratic multiple knapsack problem. Expert Systems With Applications, 2022, 191, 116238.	7.6	7
49	A neural network for the minimum set covering problem. Chaos, Solitons and Fractals, 2000, 11, 2079-2089.	5.1	6
50	An adaptive algorithm for the knapsack problem: perturbation of the profit or weight of an arbitrary item. European Journal of Industrial Engineering, 2008, 2, 134.	0.8	6
51	A hybrid beam search looking-ahead algorithm forÂtheÂcircular packing problem. Journal of Combinatorial Optimization, 2010, 20, 101-130.	1.3	6
52	Adaptive beam search lookahead algorithms for the circular packing problem. International Transactions in Operational Research, 2010, 17, 553-575.	2.7	6
53	A cooperative algorithm for constrained two-staged two-dimensional cutting problems. International Journal of Operational Research, 2010, 9, 104.	0.2	6
54	A parallel algorithm for two-staged two-dimensional fixed-orientation cutting problems. Computational Optimization and Applications, 2012, 51, 783-807.	1.6	6

#	ARTICLE	IF	CITATIONS
55	A dichotomous search-based heuristic for the three-dimensional sphere packing problem. Cogent Engineering, 2015, 2, 994257.	2.2	6
56	An Adaptive Neighborhood Search for k-Clustering Minimum Bi-clique Completion Problems. Advances in Intelligent Systems and Computing, 2015, , 15-25.	0.6	6
57	Branch and solve strategies-based algorithm for the quadratic multiple knapsack problem. Journal of the Operational Research Society, 2022, 73, 540-557.	3.4	6
58	A modified descent method-based heuristic for binary quadratic knapsack problems with conflict graphs. Annals of Operations Research, 2021, 298, 125-147.	4.1	6
59	Neighborhood search-based heuristic for the k-clustering minimum biclique completion problem. , 2016, , .		5
60	An iterative algorithm for the Max-Min knapsack problem with multiple scenarios. Operational Research, 2021, 21, 1355-1392.	2.0	5
61	A FAST METHOD FOR OPTIMIZING THE K-CLUSTERING BI-CLIQUE COMPLETION PROBLEM IN TELECOMMUNICATION. The Journal of the University of Duhok, 2017, 20, 175-183.	0.1	5
62	New upper bounds and exact methods for the knapsack sharing problem. Applied Mathematics and Computation, 2014, 227, 518-530.	2.2	4
63	A look-ahead strategy-based method for scheduling multiprocessor tasks on two dedicated processors. Computers and Industrial Engineering, 2021, 158, 107388.	6.3	4
64	A Cooperative Algorithm for Constrained Two-staged 2D Cutting Problems. , 2006, , .		3
65	Approximate and exact algorithms forÂtheÂdouble-constrained two-dimensional guillotine cutting stock problem. Computational Optimization and Applications, 2009, 42, 303-326.	1.6	3
66	Adaptive algorithms for Circular Cutting/packing problems. International Journal of Operational Research, 2009, 6, 435.	0.2	3
67	Sensitivity analysis to perturbations of the weight of a subset of items: The knapsack case study. Discrete Optimization, 2013, 10, 320-330.	0.9	3
68	A hybrid algorithm for packing identical spheres into a container. Expert Systems With Applications, 2018, 96, 249-260.	7.6	3
69	A two-stage hybrid method for the multi-scenarios max-min knapsack problem. International Journal of Intelligent Engineering Informatics, 2018, 6, 99.	0.1	3
70	A Reactive Search-Based Algorithm for Scheduling Multiprocessor Tasks on Two Dedicated Processors. , 0, , .		3
71	A diversified method for the multi-scenarios max-min knapsack problem. , 2016, , .		2
72	A hybrid reactive search for solving the max-min knapsack problem with multi-scenarios. International Journal of Computers and Applications, 2018, 40, 1-13.	1.3	2

#	Article	IF	Citations
73	An Iterative Randomized Rounding Algorithm for the k-Clustering Minimum Completion Problem with an Application in Telecommunication Field. Lecture Notes in Networks and Systems, 2022, , 410-422.	0.7	2
74	Computational Power of a Hybrid Algorithm for Solving the Multiple Knapsack Problem with Setup. Lecture Notes in Networks and Systems, 2022, , 154-168.	0.7	2
75	Effect of Backtracking Strategy in Population-Based Approach: The Case of the Set-Union Knapsack Problem. Cybernetics and Systems, 2022, 53, 168-185.	2.5	2
76	Sensitivity analysis of the knapsack problem: Tighter lower and upper bound limits. Journal of Systems Science and Systems Engineering, 2008, 17, 156-170.	1.6	1
77	A hybrid descent method for the two-edge disjoint survivable network design problem with relays. Computers and Industrial Engineering, 2017, 112, 645-653.	6.3	1
78	An iterative rounding strategy-based algorithm for the set-union knapsack problem. Soft Computing, 2021, 25, 13617.	3.6	1
79	Data-driven robust optimization for the itinerary planning via large-scale GPS data. Knowledge-Based Systems, 2021, 231, 107437.	7.1	1
80	A two-stage hybrid method for the multi-scenarios max-min knapsack problem. International Journal of Intelligent Engineering Informatics, 2018, 6, 99.	0.1	1
81	A Fast Large Neighborhood Search for Disjunctively Constrained Knapsack Problems. Lecture Notes in Computer Science, 2014, , 396-407.	1.3	1
82	Effect of Local Branching on the Iterative Rounding-Based Method: The Case of k-Clustering Minimum Completion Problems. Cybernetics and Systems, 0, , 1-22.	2.5	1
83	A rounding strategy-based algorithm for the k-clustering minimum biclique completion problem. Journal of the Operational Research Society, 0, , 1-14.	3.4	1