Silvano Martello

List of Publications by Year
in descending order

129 papers	8,210 citations	93792	62345
		39 h-index	84 g-index

| 141 all docs | 141 docs citations | 141 times ranked | 4782 citing authors |

#	Article	IF	Citations
1	2DPackLib: a two-dimensional cutting and packing library. Optimization Letters, 2022, 16, 471-480.	0.9	8
2	Knapsack problems â€" An overview of recent advances. Part II: Multiple, multidimensional, and quadratic knapsack problems. Computers and Operations Research, 2022, 143, 105693.	2.4	26
3	Knapsack problems â€" An overview of recent advances. Part I: Single knapsack problems. Computers and Operations Research, 2022, 143, 105692.	2.4	18
4	An Iterated Dual Substitution Approach for Binary Integer Programming Problems Under the Min-Max Regret Criterion. INFORMS Journal on Computing, 2022, 34, 2523-2539.	1.0	2
5	Exact solution techniques for two-dimensional cutting and packing. European Journal of Operational Research, 2021, 289, 399-415.	3.5	56
6	Polynomial-size formulations and relaxations for the quadratic multiple knapsack problem. European Journal of Operational Research, 2021, 291, 871-882.	3.5	7
7	The assignment and loading transportation problem. European Journal of Operational Research, 2021, 289, 999-1007.	3.5	6
8	4OR comes of age. 4or, 2021, 19, 1-13.	1.0	1
9	Theory and applications in combinatorial optimization. Journal of Combinatorial Optimization, 2021, 42, 207-211.	0.8	1
10	Algorithmic approaches to the multiple knapsack assignment problem. Omega, 2020, 90, 102004.	3.6	21
11	Lower and upper bounds for the non-linear generalized assignment problem. Computers and Operations Research, 2020, 120, 104933.	2.4	9
12	Combinatorial Optimization: Between Practice and Theory. Discrete Applied Mathematics, 2019, 264, 1-3.	0.5	3
13	Comments on: A comparative study of time aggregation techniques in relation to power capacity-expansion modeling. Top, 2019, 27, 414-415.	1.1	0
14	Mathematical models and decomposition methods for the multiple knapsack problem. European Journal of Operational Research, 2019, 274, 886-899.	3.5	37
15	Relaxations and heuristics for the multiple non-linear separable knapsack problem. Computers and Operations Research, 2018, 93, 79-89.	2.4	10
16	Sweet sixteen. 4or, 2018, 16, 1-13.	1.0	4
17	Computational advances in combinatorial optimization. Discrete Applied Mathematics, 2018, 242, 1-3.	0.5	3
18	The traveling salesman problem with pickups, deliveries, and draft limits. Omega, 2018, 74, 50-58.	3.6	23

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19	BPPLIB: a library for bin packing and cutting stock problems. Optimization Letters, 2018, 12, 235-250.	0.9	40
20	Surveys in operations research. Annals of Operations Research, 2018, 271, 3-10.	2.6	3
21	Exact and heuristic algorithms for the interval min-max regret generalized assignment problem. Computers and Industrial Engineering, 2018, 125, 98-110.	3.4	14
22	Training software for orthogonal packing problems. Computers and Industrial Engineering, 2017, 111, 139-147.	3.4	6
23	Logic based Benders' decomposition for orthogonal stock cutting problems. Computers and Operations Research, 2017, 78, 290-298.	2.4	43
24	Twelve surveys in operations research. Annals of Operations Research, 2016, 240, 3-11.	2.6	4
25	Bin packing and cutting stock problems: Mathematical models and exact algorithms. European Journal of Operational Research, 2016, 255, 1-20.	3.5	241
26	A brand new cheating attempt: a case of usurped identity. 4or, 2016, 14, 333-336.	1.0	9
27	Heuristics for the General Multiple Non-linear Knapsack Problem. Electronic Notes in Discrete Mathematics, 2016, 55, 69-72.	0.4	2
28	Models and algorithms for packing rectangles into the smallest square. Computers and Operations Research, 2015, 63, 161-171.	2.4	18
29	Heuristic and Exact Algorithms for the Interval Min–Max Regret Knapsack Problem. INFORMS Journal on Computing, 2015, 27, 392-405.	1.0	34
30	The dirty dozen of 4OR. 4or, 2015, 13, 1-13.	1.0	6
31	Decision Making under Uncertainty in Electricity Markets. Journal of the Operational Research Society, 2015, 66, 174-174.	2.1	5
32	Advances in Combinatorial Optimization. Discrete Applied Mathematics, 2015, 196, 1-3.	0.5	9
33	Optimal Scheduling of a Multiunit Hydro Power Station in a Short-Term Planning Horizon. Profiles in Operations Research, 2015, , 167-181.	0.3	1
34	Efficient Two-Dimensional Data Allocation in IEEE 802.16 OFDMA. IEEE/ACM Transactions on Networking, 2014, 22, 1645-1658.	2.6	16
35	Optimistic MILP modeling of non-linear optimization problems. European Journal of Operational Research, 2014, 239, 32-45.	3.5	12
36	Two-dimensional packing problems in telecommunications. Pesquisa Operacional, 2014, 34, 31-38.	0.1	3

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37	An overview of computational issues in combinatorial optimization. Annals of Operations Research, 2013, 207, 1-5.	2.6	6
38	Optimal design of fair layouts. Flexible Services and Manufacturing Journal, 2013, 25, 443-461.	1.9	3
39	Eleven surveys in operations research: III. Annals of Operations Research, 2013, 204, 3-9.	2.6	6
40	An overview of advances in combinatorial optimization related topics. Optimization, 2013, 62, 1291-1295.	1.0	3
41	A note on exact and heuristic algorithms for the identical parallel machine scheduling problem. Journal of Heuristics, 2012, 18, 939-942.	1.1	1
42	No end of the world in 2012 for 4OR. 4or, 2012, 10, 1-13.	1.0	6
43	A look at the past and present of optimization â€" An editorial. European Journal of Operational Research, 2012, 219, 638-640.	3.5	0
44	Complexity and approximation of an area packing problem. Optimization Letters, 2012, 6, 1-9.	0.9	12
45	Efficient Two-Dimensional Packing Algorithms for Mobile WiMAX. Management Science, 2011, 57, 2130-2144.	2.4	20
46	Combinatorial optimization issues in scheduling. Journal of Scheduling, 2011, 14, 221-223.	1.3	10
47	Developments in combinatorial optimization (ECCO-XX): Guest editorial. Computational Optimization and Applications, 2011, 48, 341-343.	0.9	5
48	Heuristic algorithms for the general nonlinear separable knapsack problem. Computers and Operations Research, 2011, 38, 505-513.	2.4	15
49	JenÅ' EgervÃ¡ry: from the origins of the Hungarian algorithm to satellite communication. Central European Journal of Operations Research, 2010, 18, 47-58.	1.1	20
50	Models and algorithms for fair layout optimization problems. Annals of Operations Research, 2010, 179, 5-14.	2.6	2
51	Eleven surveys in operations research: II. Annals of Operations Research, 2010, 175, 3-8.	2.6	7
52	Rejoinder on: Routing problems with loading constraints. Top, 2010, 18, 41-42.	1.1	1
53	Routing problems with loading constraints. Top, 2010, 18, 4-27.	1.1	183
54	Piecewise linear approximation of functions of two variables in MILP models. Operations Research Letters, 2010, 38, 39-46.	0.5	140

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55	An aggregate label setting policy for the multi-objective shortest path problem. European Journal of Operational Research, 2010, 207, 1489-1496.	3.5	21
56	Plagiarism again: Sreenivas and Srinivas, with an update on Marcu. 4or, 2009, 7, 17-20.	1.0	10
57	Assignment Problems. , 2009, , .		579
58	An MILP Approach for Short-Term Hydro Scheduling and Unit Commitment With Head-Dependent Reservoir. IEEE Transactions on Power Systems, 2008, 23, 1115-1124.	4.6	271
59	Heuristic and Exact Algorithms for the Identical Parallel Machine Scheduling Problem. INFORMS Journal on Computing, 2008, 20, 333-344.	1.0	52
60	Scatter Search Algorithms for Identical Parallel Machine Scheduling Problems. Studies in Computational Intelligence, 2008, , 41-59.	0.7	4
61	Algorithm 864. ACM Transactions on Mathematical Software, 2007, 33, 7.	1.6	74
62	A Tabu Search Algorithm for a Routing and Container Loading Problem. Transportation Science, 2006, 40, 342-350.	2.6	243
63	Lower bounds and heuristic algorithms for the ki-partitioning problem. European Journal of Operational Research, 2006, 171, 725-742.	3.5	13
64	A case of plagiarism: DÄƒnuÅ£ Marcu. 4or, 2006, 4, 11-13.	1.0	13
65	Packing into the smallest square: Worst-case analysis of lower bounds. Discrete Optimization, 2006, 3, 317-326.	0.6	5
66	A note on exact algorithms for the identical parallel machine scheduling problem. European Journal of Operational Research, 2005, 160, 576-578.	3.5	23
67	Erratum to â€œThe Three-Dimensional Bin Packing Problemâ€: Robot-Packable and Orthogonal Variants of Packing Problems. Operations Research, 2005, 53, 735-736.	1.2	34
68	TSpack: A Unified Tabu Search Code for Multi-Dimensional Bin Packing Problems. Annals of Operations Research, 2004, 131, 203-213.	2.6	62
69	Heuristic Algorithms and Scatter Search for the Cardinality Constrained Pâ€,CmaxProblem. Journal of Heuristics, 2004, 10, 169-204.	1.1	17
70	Models and Bounds for Two-Dimensional Level Packing Problems. Journal of Combinatorial Optimization, 2004, 8, 363-379.	0.8	97
71	Upper bounds and algorithms for the maximum cardinality bin packing problem. European Journal of Operational Research, 2003, 149, 490-498.	3.5	34
72	An Exact Approach to the Strip-Packing Problem. INFORMS Journal on Computing, 2003, 15, 310-319.	1.0	215

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73	An Exact Algorithm for the Two-Constraint 0–1 Knapsack Problem. Operations Research, 2003, 51, 826-835.	1.2	37
74	Metaheuristic Algorithms for the Strip Packing Problem. Applied Optimization, 2003, , 159-179.	0.4	34
75	A lower bound for the non-oriented two-dimensional bin packing problem. Discrete Applied Mathematics, 2002, 118, 13-24.	0.5	51
76	Recent advances on two-dimensional bin packing problems. Discrete Applied Mathematics, 2002, 123, 379-396.	0.5	250
77	Graphs and Scheduling (ECCO XII). European Journal of Operational Research, 2002, 137, 231-232.	3.5	1
78	Two-dimensional packing problems: A survey. European Journal of Operational Research, 2002, 141, 241-252.	3.5	648
79	Heuristic algorithms for the three-dimensional bin packing problem. European Journal of Operational Research, 2002, 141, 410-420.	3.5	144
80	A Polyhedral Approach to Simplified Crew Scheduling and Vehicle Scheduling Problems. Management Science, 2001, 47, 833-850.	2.4	56
81	Efficient algorithms and codes for k-cardinality assignment problems. Discrete Applied Mathematics, 2001, 110, 25-40.	0.5	18
82	Bounds for the cardinality constrainedP?Cmax problem. Journal of Scheduling, 2001, 4, 123-138.	1.3	28
83	New trends in exact algorithms for the 0–1 knapsack problem. European Journal of Operational Research, 2000, 123, 325-332.	3.5	240
84	The Three-Dimensional Bin Packing Problem. Operations Research, 2000, 48, 256-267.	1.2	479
85	Bin Packing Approximation Algorithms: Combinatorial Analysis. , 1999, , 151-207.		40
86	Dynamic Programming and Strong Bounds for the 0-1 Knapsack Problem. Management Science, 1999, 45, 414-424.	2.4	303
87	Approximation algorithms for the oriented two-dimensional bin packing problem. European Journal of Operational Research, 1999, 112, 158-166.	3.5	81
88	Reduction of the Three-Partition Problem. Journal of Combinatorial Optimization, 1999, 3, 17-30.	0.8	4
89	Heuristic and Metaheuristic Approaches for a Class of Two-Dimensional Bin Packing Problems. INFORMS Journal on Computing, 1999, 11, 345-357.	1.0	275
90	Neighborhood Search Algorithm for the Guillotine Non-Oriented Two-Dimensional Bin Packing Problem. , 1999, , 125-139.		11

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91	Exact Solution of the Two-Dimensional Finite Bin Packing Problem. Management Science, 1998, 44, 388-399.	2.4	312
92	Upper Bounds and Algorithms for Hard 0-1 Knapsack Problems. Operations Research, 1997, 45, 768-778.	1.2	71
93	Exact and approximation algorithms for makespan minimization on unrelated parallel machines. Discrete Applied Mathematics, 1997, 75, 169-188.	0.5	68
94	The k-cardinality assignment problem. Discrete Applied Mathematics, 1997, 76, 103-121.	0.5	59
95	Open shop, satellite communication and a theorem by EgervÃ¡ry (1931). Operations Research Letters, 1996, 18, 207-211.	0.5	12
96	An exact algorithm for the dual bin packing problem. Operations Research Letters, 1995, 17, 9-18.	0.5	35
97	The bottleneck generalized assignment problem. European Journal of Operational Research, 1995, 83, 621-638.	3.5	33
98	A note on exact algorithms for the bottleneck generalized assignment problem. European Journal of Operational Research, 1995, 83, 711-712.	3.5	4
99	Minimizing the sum of weighted completion times with unrestricted weights. Discrete Applied Mathematics, 1995, 63, 25-41.	0.5	3
100	Optimal Scheduling of Tasks on Identical Parallel Processors. ORSA Journal on Computing, 1995, 7, 191-200.	1.7	105
101	Special Issue of INFOR on Knapsack, Packing And Cutting. Infor, 1994, 32, 121-123.	0.5	4
102	The Delivery Man Problem and Cumulative Matroids. Operations Research, 1993, 41, 1055-1064.	1.2	141
103	Approximation Algorithms for Fixed Job Schedule Problems. Operations Research, 1992, 40, S96-S108.	1.2	41
104	A note on 0.5-bounded greedy algorithms for the 0â§¸1 knapsack problem. Information Processing Letters, 1992, 44, 221-222.	0.4	1
105	An exact algorithm for large unbounded knapsack problems. Operations Research Letters, 1990, 9, 15-20.	0.5	36
106	Lower bounds and reduction procedures for the bin packing problem. Discrete Applied Mathematics, 1990, 28, 59-70.	0.5	224
107	The selective travelling salesman problem. Discrete Applied Mathematics, 1990, 26, 193-207.	0.5	326
108	The Fixed Job Schedule Problem with Working-Time Constraints. Operations Research, 1989, 37, 395-403.	1.2	66

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109	Algorithms and codes for the assignment problem. Annals of Operations Research, 1988, 13, 191-223.	2.6	112
110	A hybrid algorithm for finding the kth smallest of n elements in O(n) time. Annals of Operations Research, 1988, 13, 399-419.	2.6	11
111	A New Algorithm for the 0-1 Knapsack Problem. Management Science, 1988, 34, 633-644.	2.4	125
112	The Fixed Job Schedule Problem with Spread-Time Constraints. Operations Research, 1987, 35, 849-858.	1.2	81
113	Linear Assignment Problems. North-Holland Mathematics Studies, 1987, 132, 259-282.	0.2	38
114	Algorithms for Knapsack Problems. North-Holland Mathematics Studies, 1987, 132, 213-257.	0.2	124
115	Worst-case analysis of the differencing method for the partition problem. Mathematical Programming, 1987, 37, 117-120.	1.6	9
116	Most and least uniform spanning trees. Discrete Applied Mathematics, 1986, 15, 181-197.	0.5	35
117	A heuristic approach to the bus driver scheduling problem. European Journal of Operational Research, 1986, 24, 106-117.	3.5	35
118	Approximation schemes for the subset-sum problem: Survey and experimental analysis. European Journal of Operational Research, 1985, 22, 56-69.	3.5	15
119	Algorithm 632: A program for the 0â€"1 multiple knapsack problem. ACM Transactions on Mathematical Software, 1985, 11, 135-140.	1.6	20
120	An Algorithm for the Bottleneck Traveling Salesman Problem. Operations Research, 1984, 32, 380-389.	1.2	14
121	Worst-case analysis of greedy algorithms for the subset-sum problem. Mathematical Programming, 1984, 28, 198-205.	1.6	33
122	A Mixture of Dynamic Programming and Branch-and-Bound for the Subset-Sum Problem. Management Science, 1984, 30, 765-771.	2.4	53
123	Finding a minimum equivalent graph of a digraph. Networks, 1982, 12, 89-100.	1.6	15
124	A Bound and Bound algorithm for the zero-one multiple knapsack problem. Discrete Applied Mathematics, 1981, 3, 275-288.	0.5	68
125	Technical Noteâ€"A Note on the Ingargiola-Korsh Algorithm for One-Dimensional Knapsack Problems. Operations Research, 1980, 28, 1226-1227.	1.2	2
126	Solution of the zero-one multiple knapsack problem. European Journal of Operational Research, 1980, 4, 276-283.	3.5	60

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127	Optimal and canonical solutions of the change making problem. European Journal of Operational Research, 1980, 4, 322-329.	3.5	11
128	An upper bound for the zero-one knapsack problem and a branch and bound algorithm. European Journal of Operational Research, 1977, 1, 169-175.	3.5	123
129	Sixty-one surveys in operations research. Annals of Operations Research, 0, , .	2.6	0