

Laurence A Wolsey

List of Publications by Year in descending order

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117
papers

8,055
citations

71004

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124
all docs

124
docs citations

124
times ranked

3563
citing authors

#	ARTICLE	IF	CITATIONS
1	Improved models for a single vehicle continuous-time inventory routing problem with pickups and deliveries. <i>European Journal of Operational Research</i> , 2022, 297, 164-179.	3.5	20
2	Convex hull results for generalizations of the constant capacity single node flow set. <i>Mathematical Programming</i> , 2021, 187, 351-382.	1.6	1
3	Lattice Reformulation Cuts. <i>SIAM Journal on Optimization</i> , 2021, 31, 2539-2557.	1.2	0
4	On the Balanced Minimum Evolution polytope. <i>Discrete Optimization</i> , 2020, 36, 100570.	0.6	5
5	Facet separation with one linear program. <i>Mathematical Programming</i> , 2019, 178, 361-380.	1.6	11
6	The item dependent stocking cost constraint. <i>Constraints</i> , 2019, 24, 183-209.	0.4	0
7	Single-Period Cutting Planes for Inventory Routing Problems. <i>Transportation Science</i> , 2018, 52, 497-508.	2.6	34
8	Convex hull results for the warehouse problem. <i>Discrete Optimization</i> , 2018, 30, 108-120.	0.6	5
9	Optimum turn-restricted paths, nested compatibility, and optimum convex polygons. <i>Journal of Combinatorial Optimization</i> , 2018, 36, 90-107.	0.8	1
10	Tight MIP formulations for bounded up/down times and interval-dependent start-ups. <i>Mathematical Programming</i> , 2017, 164, 129-155.	1.6	16
11	Continuous knapsack sets with divisible capacities. <i>Mathematical Programming</i> , 2016, 156, 1-20.	1.6	5
12	The continuous knapsack set. <i>Mathematical Programming</i> , 2016, 155, 471-496.	1.6	3
13	Single-item reformulations for a vendor managed inventory routing problem: Computational experience with benchmark instances. <i>Networks</i> , 2015, 65, 129-138.	1.6	23
14	Sufficiency of cut-generating functions. <i>Mathematical Programming</i> , 2015, 152, 643-651.	1.6	9
15	On the Practical Strength of Two-Row Tableau Cuts. <i>INFORMS Journal on Computing</i> , 2014, 26, 222-237.	1.0	10
16	Covering Linear Programming with Violations. <i>INFORMS Journal on Computing</i> , 2014, 26, 531-546.	1.0	44
17	Relaxations for two-level multi-item lot-sizing problems. <i>Mathematical Programming</i> , 2014, 146, 495-523.	1.6	19
18	The Stocking Cost Constraint. <i>Lecture Notes in Computer Science</i> , 2014, , 382-397.	1.0	5

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19	Strong and compact relaxations in the original space using a compact extended formulation. EURO Journal on Computational Optimization, 2013, 1, 71-80.	1.5	0
20	A maritime inventory routing problem: Discrete time formulations and valid inequalities. Networks, 2013, 62, 297-314.	1.6	65
21	On discrete lot-sizing and scheduling on identical parallel machines. Optimization Letters, 2012, 6, 545-557.	0.9	8
22	MIP formulations and heuristics for two-level production-transportation problems. Computers and Operations Research, 2012, 39, 2776-2786.	2.4	26
23	Mixing Sets Linked by Bidirected Paths. SIAM Journal on Optimization, 2011, 21, 1594-1613.	1.2	3
24	Projecting an Extended Formulation for Mixed-Integer Covers on Bipartite Graphs. Mathematics of Operations Research, 2010, 35, 603-623.	0.8	6
25	Polyhedral and Lagrangian approaches for lot sizing with production time windows and setup times. Computers and Operations Research, 2010, 37, 182-188.	2.4	13
26	Composite lifting of group inequalities and an application to two-row mixing inequalities. Discrete Optimization, 2010, 7, 256-268.	0.6	13
27	Single item lot-sizing with non-decreasing capacities. Mathematical Programming, 2010, 121, 123-143.	1.6	11
28	Lattice based extended formulations for integer linear equality systems. Mathematical Programming, 2010, 121, 337-352.	1.6	9
29	Two row mixed-integer cuts via lifting. Mathematical Programming, 2010, 124, 143-174.	1.6	46
30	Traces of the XII Aussois Workshop on Combinatorial Optimization. Mathematical Programming, 2010, 124, 1-6.	1.6	2
31	Uncapacitated two-level lot-sizing. Operations Research Letters, 2010, 38, 241-245.	0.5	36
32	Optimizing production and transportation in a commit-to-delivery business mode. European Journal of Operational Research, 2010, 203, 614-618.	3.5	23
33	Lot-Sizing with Stock Upper Bounds and Fixed Charges. SIAM Journal on Discrete Mathematics, 2010, 24, 853-875.	0.4	4
34	Constrained Infinite Group Relaxations of MIPs. SIAM Journal on Optimization, 2010, 20, 2890-2912.	1.2	44
35	Network Formulations of Mixed-Integer Programs. Mathematics of Operations Research, 2009, 34, 194-209.	0.8	31
36	Two well-known properties of subgradient optimization. Mathematical Programming, 2009, 120, 213-220.	1.6	59

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37	Multi-item lot-sizing with joint set-up costs. <i>Mathematical Programming</i> , 2009, 119, 79-94.	1.6	21
38	Compact formulations as a union of polyhedra. <i>Mathematical Programming</i> , 2008, 114, 277-289.	1.6	27
39	Lot-sizing on a tree. <i>Operations Research Letters</i> , 2008, 36, 7-13.	0.5	16
40	Lifting Integer Variables in Minimal Inequalities Corresponding to Lattice-Free Triangles. , 2008, , 463-475.		40
41	The Mixing Set with Flows. <i>SIAM Journal on Discrete Mathematics</i> , 2007, 21, 396-407.	0.4	16
42	Lifting, superadditivity, mixed integer rounding and single node flow sets revisited. <i>Annals of Operations Research</i> , 2007, 153, 47-77.	2.6	14
43	Inequalities from Two Rows of a Simplex Tableau. , 2007, , 1-15.		85
44	Lot-Sizing on a Tree. <i>SSRN Electronic Journal</i> , 2006, , .	0.4	2
45	Combinatorial Optimization: Theory and Computation The Aussois Workshop 2004. <i>Mathematical Programming</i> , 2006, 105, 157-160.	1.6	0
46	Approximate extended formulations. <i>Mathematical Programming</i> , 2006, 105, 501-522.	1.6	53
47	Lot-sizing with production and delivery time windows. <i>Mathematical Programming</i> , 2006, 107, 471-489.	1.6	55
48	Integer Programming and Constraint Programming in Solving a Multimachine Assignment Scheduling Problem with Deadlines and Release Dates. <i>INFORMS Journal on Computing</i> , 2006, 18, 209-217.	1.0	51
49	On unions and dominants of polytopes. <i>Mathematical Programming</i> , 2004, 99, 223-239.	1.6	14
50	On the cut polyhedron. <i>Discrete Mathematics</i> , 2004, 277, 279-285.	0.4	12
51	Extended formulations for Gomory Corner polyhedra. <i>Discrete Optimization</i> , 2004, 1, 141-165.	0.6	6
52	Uncapacitated lot-sizing with buying, sales and backlogging. <i>Optimization Methods and Software</i> , 2004, 19, 427-436.	1.6	3
53	The Aussois 2000 workshop in combinatorial optimization introduction. <i>Mathematical Programming</i> , 2003, 94, 189-191.	1.6	0
54	Dynamic knapsack sets and capacitated lot-sizing. <i>Mathematical Programming</i> , 2003, 95, 53-69.	1.6	23

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55	Tight formulations for some simple mixed integer programs and convex objective integer programs. <i>Mathematical Programming</i> , 2003, 98, 73-88.	1.6	77
56	Strong formulations for mixed integer programs: valid inequalities and extended formulations. <i>Mathematical Programming</i> , 2003, 97, 423-447.	1.6	38
57	Tight Mip Formulation for Multi-Item Discrete Lot-Sizing Problems. <i>Operations Research</i> , 2003, 51, 557-565.	1.2	32
58	Solving Multi-Item Lot-Sizing Problems with an MIP Solver Using Classification and Reformulation. <i>Management Science</i> , 2002, 48, 1587-1602.	2.4	110
59	Combining Problem Structure with Basis Reduction to Solve a Class of Hard Integer Programs. <i>Mathematics of Operations Research</i> , 2002, 27, 470-484.	0.8	15
60	Non-standard approaches to integer programming. <i>Discrete Applied Mathematics</i> , 2002, 123, 5-74.	0.5	53
61	Cutting planes in integer and mixed integer programming. <i>Discrete Applied Mathematics</i> , 2002, 123, 397-446.	0.5	152
62	On the Wagner-Whitin Lot-Sizing Polyhedron. <i>Mathematics of Operations Research</i> , 2001, 26, 591-600.	0.8	5
63	The uncapacitated lot-sizing problem with sales and safety stocks. <i>Mathematical Programming</i> , 2001, 89, 487-504.	1.6	44
64	Modelling Practical Lot-Sizing Problems as Mixed-Integer Programs. <i>Management Science</i> , 2001, 47, 993-1007.	2.4	128
65	Aggregation and Mixed Integer Rounding to Solve MIPs. <i>Operations Research</i> , 2001, 49, 363-371.	1.2	146
66	bc- ϵ prod: A Specialized Branch-and-Cut System for Lot-Sizing Problems. <i>Management Science</i> , 2000, 46, 724-738.	2.4	137
67	The 0-1 Knapsack problem with a single continuous variable. <i>Mathematical Programming</i> , 1999, 85, 15-33.	1.6	93
68	bc-opt: a branch-and-cut code for mixed integer programs. <i>Mathematical Programming</i> , 1999, 86, 335-353.	1.6	61
69	Optimal placement of add /drop multiplexers static and dynamic models. <i>European Journal of Operational Research</i> , 1998, 108, 26-35.	3.5	16
70	Optimal Placement of Add/Drop Multiplexers: Heuristic and Exact Algorithms. <i>Operations Research</i> , 1998, 46, 719-728.	1.2	45
71	MIP modelling of changeovers in production planning and scheduling problems. <i>European Journal of Operational Research</i> , 1997, 99, 154-165.	3.5	77
72	An exact algorithm for IP column generation. <i>Operations Research Letters</i> , 1996, 19, 151-159.	0.5	170

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73	Progress with single-item lot-sizing. <i>European Journal of Operational Research</i> , 1995, 86, 395-401.	3.5	55
74	Integer knapsack and flow covers with divisible coefficients: polyhedra, optimization and separation. <i>Discrete Applied Mathematics</i> , 1995, 59, 57-74.	0.5	44
75	Capacitated Facility Location: Valid Inequalities and Facets. <i>Mathematics of Operations Research</i> , 1995, 20, 562-582.	0.8	69
76	Polyhedra for lot-sizing with Wagner-Whitin costs. <i>Mathematical Programming</i> , 1994, 67, 297-323.	1.6	124
77	Modelling piecewise linear concave costs in a tree partitioning problem. <i>Discrete Applied Mathematics</i> , 1994, 50, 101-109.	0.5	14
78	Valid inequalities and projecting the multicommodity extended formulation for uncapacitated fixed charge network flow problems. <i>European Journal of Operational Research</i> , 1993, 71, 95-109.	3.5	63
79	Lot-Sizing with Constant Batches: Formulation and Valid Inequalities. <i>Mathematics of Operations Research</i> , 1993, 18, 767-785.	0.8	117
80	Valid Inequalities for the Lasdon-Terjung Production Model. <i>Journal of the Operational Research Society</i> , 1992, 43, 435-441.	2.1	6
81	Lot-sizing polyhedra with a cardinality constraint. <i>Operations Research Letters</i> , 1992, 11, 13-18.	0.5	5
82	A time indexed formulation of non-preemptive single machine scheduling problems. <i>Mathematical Programming</i> , 1992, 54, 353-367.	1.6	171
83	Finding minimum cost directed trees with demands and capacities. <i>Annals of Operations Research</i> , 1991, 33, 285-303.	2.6	8
84	Solving Multi-Item Lot-Sizing Problems Using Strong Cutting Planes. <i>Management Science</i> , 1991, 37, 53-67.	2.4	122
85	A recursive procedure to generate all cuts for $0 \leq x \leq 1$ mixed integer programs. <i>Mathematical Programming</i> , 1990, 46, 379-390.	1.6	159
86	Formulating the single machine sequencing problem with release dates as a mixed integer program. <i>Discrete Applied Mathematics</i> , 1990, 26, 255-270.	0.5	195
87	Valid inequalities for $0 \leq x \leq 1$ knapsacks and mips with generalised upper bound constraints. <i>Discrete Applied Mathematics</i> , 1990, 29, 251-261.	0.5	80
88	Submodularity and valid inequalities in capacitated fixed charge networks. <i>Operations Research Letters</i> , 1989, 8, 295.	0.5	0
89	Strong formulations for mixed integer programming: A survey. <i>Mathematical Programming</i> , 1989, 45, 173-191.	1.6	45
90	Submodularity and valid inequalities in capacitated fixed charge networks. <i>Operations Research Letters</i> , 1989, 8, 119-124.	0.5	33

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91	Chapter VI Integer programming. Handbooks in Operations Research and Management Science, 1989, 1, 447-527.	0.6	25
92	Uncapacitated Lot-Sizing Problems with Start-Up Costs. Operations Research, 1989, 37, 741-747.	1.2	44
93	Lot-size models with backlogging: Strong reformulations and cutting planes. Mathematical Programming, 1988, 40-40, 317-335.	1.6	112
94	Solving Mixed Integer Programming Problems Using Automatic Reformulation. Operations Research, 1987, 35, 45-57.	1.2	245
95	Valid inequalities for mixed 0-1 programs. Discrete Applied Mathematics, 1986, 14, 199-213.	0.5	99
96	Sensitivity Analysis for Branch and Bound Integer Programming. Operations Research, 1985, 33, 1008-1023.	1.2	52
97	Valid inequalities and separation for uncapacitated fixed charge networks. Operations Research Letters, 1985, 4, 105-112.	0.5	42
98	Strong Formulations for Multi-Item Capacitated Lot Sizing. Management Science, 1984, 30, 1255-1261.	2.4	207
99	Uncapacitated lot-sizing: The convex hull of solutions. Mathematical Programming Studies, 1984, , 32-43.	0.8	132
100	Fractional covers for forests and matchings. Mathematical Programming, 1984, 29, 1-14.	1.6	16
101	Trees and Cuts. North-Holland Mathematics Studies, 1983, 75, 511-517.	0.2	14
102	Maximising Real-Valued Submodular Functions: Primal and Dual Heuristics for Location Problems. Mathematics of Operations Research, 1982, 7, 410-425.	0.8	110
103	On the use of penumbras in blocking and antiblocking theory. Mathematical Programming, 1982, 22, 71-81.	1.6	1
104	An elementary survey of general duality theory in mathematical programming. Mathematical Programming, 1981, 21, 241-261.	1.6	70
105	Integer programming duality: Price functions and sensitivity analysis. Mathematical Programming, 1981, 20, 173-195.	1.6	116
106	Worst-Case and Probabilistic Analysis of Algorithms for a Location Problem. Operations Research, 1980, 28, 847-858.	1.2	42
107	Valid Inequalities, Covering Problems and Discrete Dynamic Programs. Annals of Discrete Mathematics, 1977, 1, 527-538.	1.4	20
108	Cubical sperner lemmas as applications of generalized complementary pivoting. Journal of Combinatorial Theory - Series A, 1977, 23, 78-87.	0.5	6

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109	Further facet generating procedures for vertex packing polytopes. <i>Mathematical Programming</i> , 1976, 11, 158-163.	1.6	49
110	Technical Note—Facets and Strong Valid Inequalities for Integer Programs. <i>Operations Research</i> , 1976, 24, 367-372.	1.2	91
111	Faces for a linear inequality in $n+1$ variables. <i>Mathematical Programming</i> , 1975, 8, 165-178.	1.6	253
112	A number theoretic reformulation and decomposition method for integer programming. <i>Discrete Mathematics</i> , 1974, 7, 393-403.	0.4	2
113	Coefficient reduction for inequalities in $n+1$ variables. <i>Mathematical Programming</i> , 1974, 7, 263-282.	1.6	56
114	Generalized dynamic programming methods in integer programming. <i>Mathematical Programming</i> , 1973, 4, 222-232.	1.6	25
115	Relaxation Methods for Pure and Mixed Integer Programming Problems. <i>Management Science</i> , 1972, 18, 229-239.	2.4	30
116	Extensions of the Group Theoretic Approach in Integer Programming. <i>Management Science</i> , 1971, 18, 74-83.	2.4	30
117	Group-Theoretic Results in Mixed Integer Programming. <i>Operations Research</i> , 1971, 19, 1691-1697.	1.2	21