Alper Atamturk

List of Publications by Year
in descending order

58 papers	2,412 citations	230014 27 h-index	242451 47 g-index
59 all docs	59 docs citations	59 times ranked	1751 citing authors

#	Article	IF	Citations
1	Submodular function minimization and polarity. Mathematical Programming, 2022, 196, 57-67.	1.6	9
2	The equivalence of optimal perspective formulation and Shor's SDP for quadratic programs with indicator variables. Operations Research Letters, 2022, 50, 195-198.	0.5	1
3	Penalized semidefinite programming for quadratically-constrained quadratic optimization. Journal of Global Optimization, 2020, 78, 423-451.	1.1	3
4	Successive Quadratic Upper-Bounding for Discrete Mean-Risk Minimization and Network Interdiction. INFORMS Journal on Computing, 2019, , .	1.0	1
5	Accommodating new flights into an existing airline flight schedule. Transportation Research Part C: Emerging Technologies, 2019, 104, 265-286.	3.9	12
6	A Bound Strengthening Method for Optimal Transmission Switching in Power Systems. IEEE Transactions on Power Systems, 2019, 34, 280-291.	4.6	23
7	Lifted polymatroid inequalities for mean-risk optimization with indicator variables. Journal of Global Optimization, 2019, 73, 677-699.	1.1	7
8	Simplex QP-based methods for minimizing a conic quadratic objective over polyhedra. Mathematical Programming Computation, 2019, 11, 311-340.	3.2	4
9	Network design with probabilistic capacities. Networks, 2018, 71, 16-30.	1.6	9
10	Strong formulations for quadratic optimization with M-matrices and indicator variables. Mathematical Programming, 2018, 170, 141-176.	1.6	24
11	Technical Note—A Conic Integer Optimization Approach to the Constrained Assortment Problem Under the Mixed Multinomial Logit Model. Operations Research, 2018, 66, 994-1003.	1.2	42
12	A note on capacity models for network design. Operations Research Letters, 2018, 46, 414-417.	0.5	1
13	Maximizing a Class of Utility Functions Over the Vertices of a Polytope. Operations Research, 2017, 65, 433-445.	1.2	14
14	Conic relaxations of the unit commitment problem. Energy, 2017, 134, 1079-1095.	4.5	40
15	A spatial branch-and-cut method for nonconvex QCQP with bounded complex variables. Mathematical Programming, 2017, 165, 549-577.	1.6	31
16	Path Cover and Path Pack Inequalities for the Capacitated Fixed-Charge Network Flow Problem. SIAM Journal on Optimization, 2017, 27, 1943-1976.	1.2	12
17	Promises of conic relaxations in optimal transmission switching of power systems. , 2017, , .		8
18	Three-partition flow cover inequalities for constant capacity fixed-charge network flow problems. Networks, 2016, 67, 299-315.	1.6	5

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19	A polyhedral study of production ramping. Mathematical Programming, 2016, 158, 175-205.	1.6	62
20	Bound Tightening for the Alternating Current Optimal Power Flow Problem. IEEE Transactions on Power Systems, 2016, 31, 3729-3736.	4.6	39
21	Supermodular covering knapsack polytope. Discrete Optimization, 2015, 18, 74-86.	0.6	5
22	Aircraft Rescheduling with Cruise Speed Control. Operations Research, 2014, 62, 829-845.	1.2	70
23	Separation and Extension of Cover Inequalities for Conic Quadratic Knapsack Constraints with Generalized Upper Bounds. INFORMS Journal on Computing, 2013, 25, 420-431.	1.0	5
24	NPIP: A skew line needle configuration optimization system for HDR brachytherapy. Medical Physics, 2012, 39, 4339-4346.	1.6	23
25	A Conic Integer Programming Approach to Stochastic Joint Location-Inventory Problems. Operations Research, 2012, 60, 366-381.	1.2	111
26	n-step mingling inequalities: new facets for the mixed-integer knapsack set. Mathematical Programming, 2012, 132, 79-98.	1.6	12
27	Lifting for conic mixed-integer programming. Mathematical Programming, 2011, 126, 351-363.	1.6	36
28	Maximizing a class of submodular utility functions. Mathematical Programming, 2011, 128, 149-169.	1.6	54
29	IPIP: A new approach to inverse planning for HDR brachytherapy by directly optimizing dosimetric indices. Medical Physics, 2011, 38, 4045-4051.	1.6	42
30	Conic mixed-integer rounding cuts. Mathematical Programming, 2010, 122, 1-20.	1.6	91
31	Mingling: mixed-integer rounding with bounds. Mathematical Programming, 2010, 123, 315-338.	1.6	21
32	Parallel machine match-up scheduling with manufacturing cost considerations. Journal of Scheduling, 2010, 13, 95-110.	1.3	26
33	An Economic Analysis of Wind Energy Harvest. , 2009, , .		2
34	A strong conic quadratic reformulation for machine-job assignment with controllable processing times. Operations Research Letters, 2009, 37, 187-191.	0.5	77
35	The submodular knapsack polytope. Discrete Optimization, 2009, 6, 333-344.	0.6	31
36	An algorithm for lot sizing with inventory bounds and fixed costs. Operations Research Letters, 2008, 36, 297-299.	0.5	32

#	ARTICLE	IF	CITATIONS
37	Partition inequalities for capacitated survivable network design based on directed p-cycles. Discrete Optimization, 2008, 5, 415-433.	0.6	9
38	Polymatroids and mean-risk minimization in discrete optimization. Operations Research Letters, 2008, 36, 618-622.	0.5	85
39	The Flow Set with Partial Order. Mathematics of Operations Research, 2008, 33, 730-746.	0.8	1
40	Two-Stage Robust Network Flow and Design Under Demand Uncertainty. Operations Research, 2007, 55, 662-673.	1.2	251
41	Network design arc set with variable upper bounds. Networks, 2007, 50, 17-28.	1.6	15
42	Cuts for Conic Mixed-Integer Programming. Lecture Notes in Computer Science, 2007, , 16-29.	1.0	17
43	Strong Formulations of Robust Mixed 0–1 Programming. Mathematical Programming, 2006, 108, 235-250.	1.6	64
44	Lot Sizing with Inventory Bounds and Fixed Costs: Polyhedral Study and Computation. Operations Research, 2005, 53, 711-730.	1.2	53
45	Cover and Pack Inequalities for (Mixed) Integer Programming. Annals of Operations Research, 2005, 139, 21-38.	2.6	44
46	Integer-Programming Software Systems. Annals of Operations Research, 2005, 140, 67-124.	2.6	164
47	Sequence Independent Lifting for Mixed-Integer Programming. Operations Research, 2004, 52, 487-490.	1.2	39
48	A study of the lot-sizing polytope. Mathematical Programming, 2004, 99, 443-465.	1.6	57
49	A directed cycle-based column-and-cut generation method for capacitated survivable network design. Networks, 2004, 43, 201-211.	1.6	22
50	On the facets of the mixed?integer knapsack polyhedron. Mathematical Programming, 2003, 98, 145-175.	1.6	75
51	On splittable and unsplittable flow capacitated network design arc-set polyhedra. Mathematical Programming, 2002, 92, 315-333.	1.6	53
52	On capacitated network design cut?set polyhedra. Mathematical Programming, 2002, 92, 425-437.	1.6	116
53	Valid inequalities for problems with additive variable upper bounds. Mathematical Programming, 2001, 91, 145-162.	1.6	26
54	Flow pack facets of the single node fixed-charge flow polytope. Operations Research Letters, 2001, 29, 107-114.	0.5	57

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55	Capacity Acquisition, Subcontracting, and Lot Sizing. Management Science, 2001, 47, 1081-1100.	2.4	100
56	Conflict graphs in solving integer programming problems. European Journal of Operational Research, 2000, 121, 40-55.	3.5	121
57	The mixed vertex packing problem. Mathematical Programming, 2000, 89, 35-53.	1.6	54
58	Submodularity in Conic Quadratic Mixed 0–1 Optimization. Operations Research, 0, , .	1.2	4