

James Luedtke

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

1,957
citations

567281

15
h-index

395702

33
g-index

38
all docs

38
docs citations

38
times ranked

1685
citing authors

#	ARTICLE	IF	CITATIONS
1	New valid inequalities and formulations for the static joint Chance-constrained Lot-sizing problem. <i>Mathematical Programming</i> , 2023, 199, 639-669.	2.4	2
2	Intersection Disjunctions for Reverse Convex Sets. <i>Mathematics of Operations Research</i> , 2022, 47, 297-319.	1.3	1
3	On sample average approximation for two-stage stochastic programs without relatively complete recourse. <i>Mathematical Programming</i> , 2022, 196, 719-754.	2.4	4
4	Sparse Multi-term Disjunctive Cuts for the Epigraph of a Function of Binary Variables. <i>Lecture Notes in Computer Science</i> , 2022, , 98-111.	1.3	1
5	Mixed-integer linear programming for scheduling unconventional oil field development. <i>Optimization and Engineering</i> , 2021, 22, 1459-1489.	2.4	7
6	Minotaur: a mixed-integer nonlinear optimization toolkit. <i>Mathematical Programming Computation</i> , 2021, 13, 301-338.	4.8	4
7	Optimization-based dispatching policies for open-pit mining. <i>Optimization and Engineering</i> , 2021, 22, 1347-1387.	2.4	9
8	Parallelizing Subgradient Methods for the Lagrangian Dual in Stochastic Mixed-Integer Programming. <i>INFORMS Journal on Optimization</i> , 2021, 3, 1-22.	1.4	0
9	Stochastic DC optimal power flow with reserve saturation. <i>Electric Power Systems Research</i> , 2020, 189, 106566.	3.6	7
10	Strong Convex Nonlinear Relaxations of the Pooling Problem. <i>SIAM Journal on Optimization</i> , 2020, 30, 1582-1609.	2.0	6
11	Solving Chance-Constrained Problems via a Smooth Sample-Based Nonlinear Approximation. <i>SIAM Journal on Optimization</i> , 2020, 30, 2221-2250.	2.0	30
12	Call Center Arrivals: When to Jointly Forecast Multiple Streams?. <i>Production and Operations Management</i> , 2019, 28, 27-42.	3.8	5
13	Valid inequalities for separable concave constraints with indicator variables. <i>Mathematical Programming</i> , 2018, 172, 415-442.	2.4	1
14	Computing and maximizing the exact reliability of wireless backhaul networks. <i>Electronic Notes in Discrete Mathematics</i> , 2018, 64, 85-94.	0.4	1
15	Exact algorithms for the chance-constrained vehicle routing problem. <i>Mathematical Programming</i> , 2018, 172, 105-138.	2.4	38
16	New solution approaches for the maximum-reliability stochastic network interdiction problem. <i>Computational Management Science</i> , 2018, 15, 455-477.	1.3	6
17	Service network design with equilibrium-driven demands. <i>IIE Transactions</i> , 2018, 50, 959-969.	2.4	6
18	Combining Progressive Hedging with a Frank-Wolfe Method to Compute Lagrangian Dual Bounds in Stochastic Mixed-Integer Programming. <i>SIAM Journal on Optimization</i> , 2018, 28, 1312-1336.	2.0	38

#	ARTICLE	IF	CITATIONS
19	Lift-and-project cuts for convex mixed integer nonlinear programs. <i>Mathematical Programming Computation</i> , 2017, 9, 499-526.	4.8	14
20	Strengthened Benders Cuts for Stochastic Integer Programs with Continuous Recourse. <i>INFORMS Journal on Computing</i> , 2017, 29, 77-91.	1.7	42
21	Nonanticipative duality, relaxations, and formulations for chance-constrained stochastic programs. <i>Mathematical Programming</i> , 2017, 162, 51-81.	2.4	40
22	Decomposition algorithms for two-stage chance-constrained programs. <i>Mathematical Programming</i> , 2016, 157, 219-243.	2.4	66
23	Models and formulations for multivariate dominance-constrained stochastic programs. <i>IIE Transactions</i> , 2015, 47, 1-14.	2.1	39
24	Strong-branching inequalities for convex mixed integer nonlinear programs. <i>Computational Optimization and Applications</i> , 2014, 59, 639-665.	1.6	5
25	A branch-and-cut decomposition algorithm for solving chance-constrained mathematical programs with finite support. <i>Mathematical Programming</i> , 2014, 146, 219-244.	2.4	111
26	Models and solution techniques for production planning problems with increasing byproducts. <i>Journal of Global Optimization</i> , 2014, 59, 597-631.	1.8	5
27	Linearization-based algorithms for mixed-integer nonlinear programs with convex continuous relaxation. <i>Journal of Global Optimization</i> , 2014, 59, 343-365.	1.8	4
28	Locally ideal formulations for piecewise linear functions with indicator variables. <i>Operations Research Letters</i> , 2013, 41, 627-632.	0.7	28
29	Mixed-integer nonlinear optimization. <i>Acta Numerica</i> , 2013, 22, 1-131.	10.7	535
30	Some results on the strength of relaxations of multilinear functions. <i>Mathematical Programming</i> , 2012, 136, 325-351.	2.4	48
31	An integer programming approach for linear programs with probabilistic constraints. <i>Mathematical Programming</i> , 2010, 122, 247-272.	2.4	245
32	Staffing Call Centers with Uncertain Demand Forecasts: A Chance-Constrained Optimization Approach. <i>Management Science</i> , 2010, 56, 1093-1115.	4.1	77
33	Applications and algorithms for mixed integer nonlinear programming. <i>Journal of Physics: Conference Series</i> , 2009, 180, 012014.	0.4	16
34	Strategic Planning with Start-Time Dependent Variable Costs. <i>Operations Research</i> , 2009, 57, 1250-1261.	1.9	0
35	A Sample Approximation Approach for Optimization with Probabilistic Constraints. <i>SIAM Journal on Optimization</i> , 2008, 19, 674-699.	2.0	438
36	New Formulations for Optimization under Stochastic Dominance Constraints. <i>SIAM Journal on Optimization</i> , 2008, 19, 1433-1450.	2.0	73

#	ARTICLE	IF	CITATIONS
37	On Generating Lagrangian Cuts for Two-Stage Stochastic Integer Programs. INFORMS Journal on Computing, 0, , .	1.7	2