

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 | Mixed-integer nonlinear optimization. <i>Acta Numerica</i> , 2013, 22, 1-131. | 10.7 | 535 |
| 2 | A Sample Approximation Approach for Optimization with Probabilistic Constraints. <i>SIAM Journal on Optimization</i> , 2008, 19, 674-699. | 2.0 | 438 |
| 3 | An integer programming approach for linear programs with probabilistic constraints. <i>Mathematical Programming</i> , 2010, 122, 247-272. | 2.4 | 245 |
| 4 | 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 |
| 5 | Staffing Call Centers with Uncertain Demand Forecasts: A Chance-Constrained Optimization Approach. <i>Management Science</i> , 2010, 56, 1093-1115. | 4.1 | 77 |
| 6 | New Formulations for Optimization under Stochastic Dominance Constraints. <i>SIAM Journal on Optimization</i> , 2008, 19, 1433-1450. | 2.0 | 73 |
| 7 | Decomposition algorithms for two-stage chance-constrained programs. <i>Mathematical Programming</i> , 2016, 157, 219-243. | 2.4 | 66 |
| 8 | Some results on the strength of relaxations of multilinear functions. <i>Mathematical Programming</i> , 2012, 136, 325-351. | 2.4 | 48 |
| 9 | Strengthened Benders Cuts for Stochastic Integer Programs with Continuous Recourse. <i>INFORMS Journal on Computing</i> , 2017, 29, 77-91. | 1.7 | 42 |
| 10 | Nonanticipative duality, relaxations, and formulations for chance-constrained stochastic programs. <i>Mathematical Programming</i> , 2017, 162, 51-81. | 2.4 | 40 |
| 11 | Models and formulations for multivariate dominance-constrained stochastic programs. <i>IIE Transactions</i> , 2015, 47, 1-14. | 2.1 | 39 |
| 12 | Exact algorithms for the chance-constrained vehicle routing problem. <i>Mathematical Programming</i> , 2018, 172, 105-138. | 2.4 | 38 |
| 13 | 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 |
| 14 | Solving Chance-Constrained Problems via a Smooth Sample-Based Nonlinear Approximation. <i>SIAM Journal on Optimization</i> , 2020, 30, 2221-2250. | 2.0 | 30 |
| 15 | Locally ideal formulations for piecewise linear functions with indicator variables. <i>Operations Research Letters</i> , 2013, 41, 627-632. | 0.7 | 28 |
| 16 | Applications and algorithms for mixed integer nonlinear programming. <i>Journal of Physics: Conference Series</i> , 2009, 180, 012014. | 0.4 | 16 |
| 17 | Lift-and-project cuts for convex mixed integer nonlinear programs. <i>Mathematical Programming Computation</i> , 2017, 9, 499-526. | 4.8 | 14 |
| 18 | Optimization-based dispatching policies for open-pit mining. <i>Optimization and Engineering</i> , 2021, 22, 1347-1387. | 2.4 | 9 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Stochastic DC optimal power flow with reserve saturation. Electric Power Systems Research, 2020, 189, 106566. | 3.6 | 7 |
| 20 | Mixed-integer linear programming for scheduling unconventional oil field development. Optimization and Engineering, 2021, 22, 1459-1489. | 2.4 | 7 |
| 21 | New solution approaches for the maximum-reliability stochastic network interdiction problem. Computational Management Science, 2018, 15, 455-477. | 1.3 | 6 |
| 22 | Service network design with equilibrium-driven demands. IIE Transactions, 2018, 50, 959-969. | 2.4 | 6 |
| 23 | Strong Convex Nonlinear Relaxations of the Pooling Problem. SIAM Journal on Optimization, 2020, 30, 1582-1609. | 2.0 | 6 |
| 24 | Strong-branching inequalities for convex mixed integer nonlinear programs. Computational Optimization and Applications, 2014, 59, 639-665. | 1.6 | 5 |
| 25 | Models and solution techniques for production planning problems with increasing byproducts. Journal of Global Optimization, 2014, 59, 597-631. | 1.8 | 5 |
| 26 | Call Center Arrivals: When to Jointly Forecast Multiple Streams?. Production and Operations Management, 2019, 28, 27-42. | 3.8 | 5 |
| 27 | Linearization-based algorithms for mixed-integer nonlinear programs with convex continuous relaxation. Journal of Global Optimization, 2014, 59, 343-365. | 1.8 | 4 |
| 28 | Minotaur: a mixed-integer nonlinear optimization toolkit. Mathematical Programming Computation, 2021, 13, 301-338. | 4.8 | 4 |
| 29 | On sample average approximation for two-stage stochastic programs without relatively complete recourse. Mathematical Programming, 2022, 196, 719-754. | 2.4 | 4 |
| 30 | On Generating Lagrangian Cuts for Two-Stage Stochastic Integer Programs. INFORMS Journal on Computing, 0, , . | 1.7 | 2 |
| 31 | New valid inequalities and formulations for the static joint Chance-constrained Lot-sizing problem. Mathematical Programming, 2023, 199, 639-669. | 2.4 | 2 |
| 32 | Valid inequalities for separable concave constraints with indicator variables. Mathematical Programming, 2018, 172, 415-442. | 2.4 | 1 |
| 33 | Computing and maximizing the exact reliability of wireless backhaul networks. Electronic Notes in Discrete Mathematics, 2018, 64, 85-94. | 0.4 | 1 |
| 34 | Intersection Disjunctions for Reverse Convex Sets. Mathematics of Operations Research, 2022, 47, 297-319. | 1.3 | 1 |
| 35 | Sparse Multi-term Disjunctive Cuts for the Epigraph of a Function of Binary Variables. Lecture Notes in Computer Science, 2022, , 98-111. | 1.3 | 1 |
| 36 | Strategic Planning with Start-Time Dependent Variable Costs. Operations Research, 2009, 57, 1250-1261. | 1.9 | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Parallelizing Subgradient Methods for the Lagrangian Dual in Stochastic Mixed-Integer Programming. INFORMS Journal on Optimization, 2021, 3, 1-22. | 1.4 | 0 |