

# Samuel Burer

## List of Publications by Year in descending order

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Version: 2024-02-01

50  
papers

2,681  
citations

236925

25  
h-index

206112

48  
g-index

51  
all docs

51  
docs citations

51  
times ranked

1637  
citing authors

#	ARTICLE	IF	CITATIONS
1	Convex hull representations for bounded products of variables. <i>Journal of Global Optimization</i> , 2021, 80, 757.	1.8	7
2	Quadratic optimization with switching variables: the convex hull for $n=2$ . <i>Mathematical Programming</i> , 2021, 188, 421-441.	2.4	4
3	Exact semidefinite formulations for a class of (random and non-random) nonconvex quadratic programs. <i>Mathematical Programming</i> , 2020, 181, 1-17.	2.4	28
4	Three methods for robust grading. <i>European Journal of Operational Research</i> , 2019, 272, 364-371.	5.7	1
5	A data-driven distributionally robust bound on the expected optimal value of uncertain mixed 0-1 linear programming. <i>Computational Management Science</i> , 2018, 15, 111-134.	1.3	9
6	A copositive approach for two-stage adjustable robust optimization with uncertain right-hand sides. <i>Computational Optimization and Applications</i> , 2018, 70, 33-59.	1.6	33
7	Quadratic programs with hollows. <i>Mathematical Programming</i> , 2018, 170, 541-553.	2.4	13
8	How to convexify the intersection of a second order cone and a nonconvex quadratic. <i>Mathematical Programming</i> , 2017, 162, 393-429.	2.4	24
9	Robust sensitivity analysis of the optimal value of linear programming. <i>Optimization Methods and Software</i> , 2017, 32, 1187-1205.	2.4	5
10	A branch-and-bound algorithm for instrumental variable quantile regression. <i>Mathematical Programming Computation</i> , 2017, 9, 471-497.	4.8	3
11	Nearly-efficient tuitions and subsidies in American public higher education. <i>Economics of Education Review</i> , 2016, 55, 182-197.	1.4	3
12	A Two-Variable Approach to the Two-Trust-Region Subproblem. <i>SIAM Journal on Optimization</i> , 2016, 26, 661-680.	2.0	20
13	A gentle, geometric introduction to copositive optimization. <i>Mathematical Programming</i> , 2015, 151, 89-116.	2.4	39
14	The trust region subproblem with non-intersecting linear constraints. <i>Mathematical Programming</i> , 2015, 149, 253-264.	2.4	44
15	Unbounded convex sets for non-convex mixed-integer quadratic programming. <i>Mathematical Programming</i> , 2014, 143, 231-256.	2.4	9
16	Faster, but weaker, relaxations for quadratically constrained quadratic programs. <i>Computational Optimization and Applications</i> , 2014, 59, 27-45.	1.6	13
17	Separation and relaxation for cones of quadratic forms. <i>Mathematical Programming</i> , 2013, 137, 343-370.	2.4	10
18	Second-Order-Cone Constraints for Extended Trust-Region Subproblems. <i>SIAM Journal on Optimization</i> , 2013, 23, 432-451.	2.0	80

#	ARTICLE	IF	CITATIONS
19	Non-convex mixed-integer nonlinear programming: A survey. <i>Surveys in Operations Research and Management Science</i> , 2012, 17, 97-106.	3.1	284
20	Copositive Programming. <i>Profiles in Operations Research</i> , 2012, , 201-218.	0.4	35
21	Newsvendor games: convex optimization of centralized inventory operations. <i>Top</i> , 2012, 20, 707-728.	1.6	3
22	Representing quadratically constrained quadratic programs as generalized copositive programs. <i>Operations Research Letters</i> , 2012, 40, 203-206.	0.7	38
23	Globally solving nonconvex quadratic programming problems via completely positive programming. <i>Mathematical Programming Computation</i> , 2012, 4, 33-52.	4.8	73
24	The MILP Road to MIQCP. <i>The IMA Volumes in Mathematics and Its Applications</i> , 2012, , 373-405.	0.5	31
25	A semidefinite programming approach to the hypergraph minimum bisection problem. <i>Optimization</i> , 2011, 60, 413-427.	1.7	2
26	Relaxing the optimality conditions of box QP. <i>Computational Optimization and Applications</i> , 2011, 48, 653-673.	1.6	4
27	Computable representations for convex hulls of low-dimensional quadratic forms. <i>Mathematical Programming</i> , 2010, 124, 33-43.	2.4	68
28	Optimizing a polyhedral-semidefinite relaxation of completely positive programs. <i>Mathematical Programming Computation</i> , 2010, 2, 1-19.	4.8	53
29	On Nonconvex Quadratic Programming with Box Constraints. <i>SIAM Journal on Optimization</i> , 2009, 20, 1073-1089.	2.0	50
30	Ap-cone sequential relaxation procedure for 0-1 integer programs. <i>Optimization Methods and Software</i> , 2009, 24, 523-548.	2.4	8
31	On the copositive representation of binary and continuous nonconvex quadratic programs. <i>Mathematical Programming</i> , 2009, 120, 479-495.	2.4	273
32	Globally solving box-constrained nonconvex quadratic programs with semidefinite-based finite branch-and-bound. <i>Computational Optimization and Applications</i> , 2009, 43, 181-195.	1.6	58
33	The difference between doubly nonnegative and completely positive matrices. <i>Linear Algebra and Its Applications</i> , 2009, 431, 1539-1552.	0.9	34
34	A finite branch-and-bound algorithm for nonconvex quadratic programming via semidefinite relaxations. <i>Mathematical Programming</i> , 2008, 113, 259-282.	2.4	112
35	Coordinating the supply chain in the agricultural seed industry. <i>European Journal of Operational Research</i> , 2008, 185, 354-377.	5.7	57
36	Solving maximum-entropy sampling problems using factored masks. <i>Mathematical Programming</i> , 2007, 109, 263-281.	2.4	24

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37	Solving Lift-and-Project Relaxations of Binary Integer Programs. SIAM Journal on Optimization, 2006, 16, 726-750.	2.0	76
38	Computational enhancements in low-rank semidefinite programming. Optimization Methods and Software, 2006, 21, 493-512.	2.4	23
39	Local Minima and Convergence in Low-Rank Semidefinite Programming. Mathematical Programming, 2005, 103, 427-444.	2.4	210
40	D.C. Versus Copositive Bounds for Standard QP. Journal of Global Optimization, 2005, 33, 299-312.	1.8	20
41	A nonlinear programming algorithm for solving semidefinite programs via low-rank factorization. Mathematical Programming, 2003, 95, 329-357.	2.4	444
42	A computational study of a gradient-based log-barrier algorithm for a class of large-scale SDPs. Mathematical Programming, 2003, 95, 359-379.	2.4	27
43	Semidefinite Programming in the Space of Partial Positive Semidefinite Matrices. SIAM Journal on Optimization, 2003, 14, 139-172.	2.0	31
44	A General Framework for Establishing Polynomial Convergence of Long-Step Methods for Semidefinite Programming. Optimization Methods and Software, 2003, 18, 1-38.	2.4	2
45	Rank-Two Relaxation Heuristics for MAX-CUT and Other Binary Quadratic Programs. SIAM Journal on Optimization, 2002, 12, 503-521.	2.0	147
46	Maximum stable set formulations and heuristics based on continuous optimization. Mathematical Programming, 2002, 94, 137-166.	2.4	44
47	Solving a class of semidefinite programs via nonlinear programming. Mathematical Programming, 2002, 93, 97-122.	2.4	37
48	Interior-Point Algorithms for Semidefinite Programming Based on a Nonlinear Formulation. Computational Optimization and Applications, 2002, 22, 49-79.	1.6	11
49	A projected gradient algorithm for solving the maxcut SDP relaxation. Optimization Methods and Software, 2001, 15, 175-200.	2.4	53
50	Strengthened SDP relaxation for an extended trust region subproblem with an application to optimal power flow. Mathematical Programming, 0, , 1.	2.4	2