Burak Kocuk

List of Publications by Year
in descending order

17 papers	520 citations	1307594 7 h-index	1058476 14 g-index
18 all docs	18 docs citations	18 times ranked	510 citing authors

#	Article	IF	Citations
1	Strong SOCP Relaxations for the Optimal Power Flow Problem. Operations Research, 2016, 64, 1177-1196.	1.9	209
2	Inexactness of SDP Relaxation and Valid Inequalities for Optimal Power Flow. IEEE Transactions on Power Systems, 2016, 31, 642-651.	6.5	100
3	New Formulation and Strong MISOCP Relaxations for AC Optimal Transmission Switching Problem. IEEE Transactions on Power Systems, 2017, 32, 4161-4170.	6.5	91
4	Matrix minor reformulation and SOCP-based spatial branch-and-cut method for the AC optimal power flow problem. Mathematical Programming Computation, 2018, 10, 557-596.	4.8	34
5	A Cycle-Based Formulation and Valid Inequalities for DC Power Transmission Problems with Switching. Operations Research, 2016, 64, 922-938.	1.9	32
6	An MISOCP-Based Solution Approach to the Reactive Optimal Power Flow Problem. IEEE Transactions on Power Systems, 2021, 36, 529-532.	6.5	16
7	Incorporating Black-Litterman views in portfolio construction when stock returns are a mixture of normals. Omega, 2020, 91, 102008.	5.9	12
8	Maintenance of infinite-server service systems subjected to random shocks. Computers and Industrial Engineering, 2013, 66, 86-94.	6.3	8
9	Convexifications of rank-one-based substructures in QCQPs and applications to the pooling problem. Journal of Global Optimization, 2020, 77, 227-272.	1.8	7
10	Approximating the objective function×³s gradient using perceptrons for constrained minimization with application in drag reduction. Computers and Operations Research, 2015, 64, 139-158.	4.0	4
11	On Subadditive Duality for Conic Mixed-integer Programs. SIAM Journal on Optimization, 2019, 29, 2320-2336.	2.0	2
12	Conic reformulations for Kullback-Leibler divergence constrained distributionally robust optimization and applications. International Journal of Optimization and Control: Theories and Applications, 2021, 11, 139-151.	1.7	2
13	A Computational Comparison of Optimization Methods for the Golomb Ruler Problem. Lecture Notes in Computer Science, 2019, , 409-425.	1.3	1
14	Optimization problems involving matrix multiplication with applications in materials science and biology. Engineering Optimization, 2022, 54, 786-804.	2.6	1
15	Node-based valid inequalities for the optimal transmission switching problem. Discrete Optimization, 2022, 43, 100683.	0.9	1
16	Computational Aspects of Bayesian Solution Estimators in Stochastic Optimization. INFORMS Journal on Optimization, 2020, 2, 256-272.	1.4	0
17	Rational polyhedral outer-approximations of the second-order cone. Discrete Optimization, 2021, 40, 100643.	0.9	0