Sanjay Mehrotra

List of Publications by Year
in descending order

86	3,174	304602	161767
papers	citations	22 h-index	54 g-index

86	86	86	2572
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	On the Implementation of a Primal-Dual Interior Point Method. SIAM Journal on Optimization, 1992, 2, 575-601.	1.2	1,277
2	A branch-and-cut method for 0-1 mixed convex programming. Mathematical Programming, 1999, 86, 515-532.	1.6	223
3	Robust Distribution Network Reconfiguration. IEEE Transactions on Smart Grid, 2015, 6, 836-842.	6.2	133
4	A model of <scp>supplyâ€chain</scp> decisions for resource sharing with an application to ventilator allocation to combat <scp>COVID</scp>â€19. Naval Research Logistics, 2020, 67, 303-320.	1.4	125
5	A Two-Stage Stochastic Integer Programming Approach to Integrated Staffing and Scheduling with Application to Nurse Management. Operations Research, 2015, 63, 1431-1451.	1.2	89
6	Lifetime Risk for Sudden Cardiac Death in the Community. Journal of the American Heart Association, 2016, 5, .	1.6	69
7	Solving symmetric indefinite systems in an interior-point method for linear programming. Mathematical Programming, 1993, 62, 15-39.	1.6	66
8	Finding an interior point in the optimal face of linear programs. Mathematical Programming, 1993, 62, 497-515.	1.6	64
9	Risk-adjusted budget allocation models with application in homeland security. IIE Transactions, 2011, 43, 819-839.	2.1	63
10	Sample average approximation of stochastic dominance constrained programs. Mathematical Programming, 2012, 133, 171-201.	1.6	58
11	PCx: an interior-point code for linear programming. Optimization Methods and Software, 1999, 11, 397-430.	1.6	57
12	Robust and Stochastically Weighted Multiobjective Optimization Models and Reformulations. Operations Research, 2012, 60, 936-953.	1.2	51
13	Quadratic Convergence in a Primal-Dual Method. Mathematics of Operations Research, 1993, 18, 741-751.	0.8	49
14	A Cutting-Surface Method for Uncertain Linear Programs with Polyhedral Stochastic Dominance Constraints. SIAM Journal on Optimization, 2010, 20, 1250-1273.	1.2	49
15	Stochastic Robust Mathematical Programming Model for Power System Optimization. IEEE Transactions on Power Systems, 2016, 31, 821-822.	4.6	49
16	A Cutting Surface Algorithm for Semi-Infinite Convex Programming with an Application to Moment Robust Optimization. SIAM Journal on Optimization, 2014, 24, 1670-1697.	1.2	48
17	Decomposition Algorithms for Two-Stage Distributionally Robust Mixed Binary Programs. SIAM Journal on Optimization, 2018, 28, 2360-2383.	1.2	34
18	Distributionally robust optimization with decision dependent ambiguity sets. Optimization Letters, 2020, 14, 2565-2594.	0.9	34

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19	A disjunctive cutting plane procedure for general mixed-integer linear programs. Mathematical Programming, 2001, 89, 437-448.	1.6	31
20	Generating Moment Matching Scenarios Using Optimization Techniques. SIAM Journal on Optimization, 2013, 23, 963-999.	1.2	29
21	Patient Functional Status at Transplant and Its Impact on Posttransplant Survival of Adult Deceased-donor Kidney Recipients. Transplantation, 2019, 103, 1051-1063.	0.5	26
22	Implementations of Affine Scaling Methods: Approximate Solutions of Systems of Linear Equations Using Preconditioned Conjugate Gradient Methods. ORSA Journal on Computing, 1992, 4, 103-118.	1.7	25
23	Decomposition algorithm for distributionally robust optimization using Wasserstein metric with an application to a class of regression models. European Journal of Operational Research, 2019, 278, 20-35.	3.5	25
24	Title is missing!. Computational Optimization and Applications, 2001, 20, 159-170.	0.9	24
25	Models and algorithms for distributionally robust least squares problems. Mathematical Programming, 2014, 146, 123-141.	1.6	23
26	Robust decision making over a set of random targets or risk-averse utilities with an application to portfolio optimization. IIE Transactions, 2015, 47, 358-372.	2.1	23
27	Functional statusâ€based riskâ€“benefit analyses of highâ€•<scp>KDPI</scp> kidney transplant versus dialysis. Transplant International, 2019, 32, 1297-1312.	0.8	22
28	Improving Geographic Equity in Kidney Transplantation Using Alternative Kidney Sharing and Optimization Modeling. Medical Decision Making, 2015, 35, 797-807.	1.2	21
29	Modeling the Allocation System. Transplantation, 2015, 99, 278-281.	0.5	20
30	Applying fault tree analysis to the prevention of wrong-site surgery. Journal of Surgical Research, 2015, 193, 88-94.	0.8	17
31	Robust decision making using a general utility set. European Journal of Operational Research, 2018, 269, 699-714.	3.5	16
32	A Data-Driven Functionally Robust Approach for Simultaneous Pricing and Order Quantity Decisions with Unknown Demand Function. Operations Research, 2019, 67, 1564-1585.	1.2	16
33	Evaluation of Accepting Kidneys of Varying Quality for Transplantation or Expedited Placement With Decision Trees. Transplantation, 2019, 103, 980-989.	0.5	16
34	Validation and characterization of DNA microarray gene expression data distribution and associated moments. BMC Bioinformatics, 2010, 11, 576.	1.2	15
35	Predicting Kidney Discard Using Machine Learning. Transplantation, 2021, 105, 2054-2071.	0.5	14
36	Scenario generation for stochastic optimization problems via the sparse grid method. Computational Optimization and Applications, 2015, 62, 669-692.	0.9	13

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37	Convergence Conditions and Krylov Subspace--Based Corrections for Primal-Dual Interior-Point Method. SIAM Journal on Optimization, 2005, 15, 635-653.	1.2	12
38	The Effect of the Statewide Sharing Variance on Geographic Disparity in Kidney Transplantation in the United States. Clinical Journal of the American Society of Nephrology: CJASN, 2014, 9, 1449-1460.	2.2	12
39	A Concentric Neighborhood Solution to Disparity in Liver Access That Contains Current UNOS Districts. Transplantation, 2018, 102, 255-278.	0.5	12
40	Outcome based state budget allocation for diabetes prevention programs using multi-criteria optimization with robust weights. Health Care Management Science, 2011, 14, 324-337.	1.5	11
41	Branching on hyperplane methods for mixed integer linear and convex programming using adjoint lattices. Journal of Global Optimization, 2011, 49, 623-649.	1.1	11
42	An empirical evaluation of walk-and-round heuristics for mixed integer linear programs. Computational Optimization and Applications, 2013, 55, 545-570.	0.9	11
43	Methodological Challenges in Solving Geographic Disparity in Liver Allocation. JAMA Surgery, 2016, 151, 109.	2.2	11
44	Tight Second Stage Formulations in Two-Stage Stochastic Mixed Integer Programs. SIAM Journal on Optimization, 2018, 28, 788-819.	1.2	11
45	Generating Convex Polynomial Inequalities for Mixed 0â€“1 Programs. Journal of Global Optimization, 2002, 24, 311-332.	1.1	10
46	Acute Incident Rapid Response at a Mass-Gathering Event Through Comprehensive Planning Systems: A Case Report from the 2013 Shamrock Shuffle. Prehospital and Disaster Medicine, 2014, 29, 320-325.	0.7	10
47	Stochastically weighted stochastic dominance concepts with an application in capital budgeting. European Journal of Operational Research, 2014, 232, 572-583.	3.5	10
48	On solving two-stage distributionally robust disjunctive programs with a general ambiguity set. European Journal of Operational Research, 2019, 279, 296-307.	3.5	10
49	Prediction range estimation from noisy Raman spectra with robust optimization. Analyst, The, 2010, 135, 2111.	1.7	9
50	Physician and patient acceptance of policies to reduce kidney discard. Clinical Transplantation, 2020, 34, e14054.	0.8	9
51	Artificial Intelligence-related Literature in Transplantation: A Practical Guide. Transplantation, 2021, 105, 704-708.	0.5	9
52	FPGA Implementation of the Interior-Point Algorithm with Applications to Collision Detection. , 2009, , .		7
53	A Solution Approach to Distributionally Robust Joint-Chance-Constrained Assignment Problems. INFORMS Journal on Optimization, 2022, 4, 125-147.	0.9	7
54	Patient and Clinician Perceptions of Informed Consent and Decision Making About Accepting KDPIâ€‰>â€‰85 Kidneys. Transplantation Direct, 2022, 8, e1254.	0.8	7

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55	On computing the center of a convex quadratically constrained set. Mathematical Programming, 1991, 50, 81-89.	1.6	6
56	A design of experiments approach to validation sampling for logistic regression modeling with error-prone medical records. Journal of the American Medical Informatics Association: JAMIA, 2016, 23, e71-e78.	2.2	6
57	Bed angle detection in hospital room using Microsoft Kinect V2. , 2016, , .		6
58	A quantitative approach for the analysis of clinician recognition of acute respiratory distress syndrome using electronic health record data. PLoS ONE, 2019, 14, e0222826.	1.1	6
59	A decomposition method for distributionally-robust two-stage stochastic mixed-integer conic programs. Mathematical Programming, 2022, 196, 673-717.	1.6	6
60	LivSim. Transplantation, 2018, 102, e47-e48.	0.5	5
61	Implementation methodology from a social systems informatics and engineering perspective applied to a parenting training program.. Families, Systems and Health, 2021, 39, 7-18.	0.4	5
62	Computational experience with a modified potential reduction algorithm for linear programming. Optimization Methods and Software, 2012, 27, 865-891.	1.6	4
63	An empirical evaluation of a walk-relax-round heuristic for mixed integer convex programs. Computational Optimization and Applications, 2015, 60, 559-585.	0.9	4
64	Chance-Constrained Multiple Bin Packing Problem with an Application to Operating Room Planning. INFORMS Journal on Computing, 0, , .	1.0	4
65	Distributionally Robust Two-Stage Stochastic Programming. SIAM Journal on Optimization, 2022, 32, 1499-1522.	1.2	4
66	A Moment Matching Approach for Generating Synthetic Data. Big Data, 2016, 4, 160-178.	2.1	3
67	Generation of feasible integer solutions on a massively parallel computer using the feasibility pump. Operations Research Letters, 2017, 45, 652-658.	0.5	3
68	Solution of Monotone Complementarity and General Convex Programming Problems Using a Modified Potential Reduction Interior Point Method. INFORMS Journal on Computing, 2017, 29, 36-53.	1.0	3
69	The Role of Procurement Biopsies in Kidney Acceptance Decision Making and Kidney Discard: Perceptions of Physicians, Nurse Coordinators, and OPO Staff and Directors. Transplantation Direct, 2022, 8, e1299.	0.8	3
70	Asymptotic convergence in a generalized predictor-corrector method. Mathematical Programming, 1996, 74, 11-28.	1.6	2
71	The Authorsâ€™ Reply. Transplantation, 2015, 99, e160-e161.	0.5	2
72	Resolving Misconceptions About Liver Allocation and Redistricting Methodologyâ€”Reply. JAMA Surgery, 2016, 151, 992.	2.2	2

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73	Patient Associated Motion Detection with Optical Flow Using Microsoft Kinect V2. , 2017, , .		2
74	Pilot implementation of opioid stewardship measures using the national surgical quality improvement program-pediatric platform. Journal of Pediatric Surgery, 2022, 57, 130-136.	0.8	2
75	Designed sampling from large databases for controlled trials. IIE Transactions, 2016, 48, 1087-1097.	2.1	1
76	Batch Sample Design from Databases for Logistic Regression. Quality and Reliability Engineering International, 2017, 33, 87-101.	1.4	1
77	Solution Approaches to Linear Fractional Programming and Its Stochastic Generalizations Using Second Order Cone Approximations. SIAM Journal on Optimization, 2021, 31, 945-971.	1.2	1
78	A study of the lock-free tour problem and path-based reformulations. IISE Transactions, 2020, 52, 603-616.	1.6	0
79	The Authorâ€™s Reply: Improving Functional Status Reporting may Save Patient Lives and Reduce Kidney Discard. Transplantation, 2020, 104, e60-e60.	0.5	0
80	4162 Improving Data Capacity and Predictive Capability of NSQIP-P Using Designed Sampling from Databases. Journal of Clinical and Translational Science, 2020, 4, 137-138.	0.3	0
81	A geometric branch and bound method for robust maximization of convex functions. Journal of Global Optimization, 0, , 1.	1.1	0
82	Dealing With the Kidney Discard Problem in the United Statesâ€”One Potential Solution for a Difficult Problem. American Journal of Kidney Diseases, 2022, , .	2.1	0
83	Title is missing!. , 2019, 14, e0222826.		0
84	Title is missing!. , 2019, 14, e0222826.		0
85	Title is missing!. , 2019, 14, e0222826.		0
86	Title is missing!. , 2019, 14, e0222826.		0