Sanjay Mehrotra

List of Publications by Year
in descending order

86 papers	3,174 citations	304602 22 h-index	161767 54 g-index
86 all docs	86 docs citations	86 times ranked	2572 citing authors

#	Article	IF	Citations
1	A decomposition method for distributionally-robust two-stage stochastic mixed-integer conic programs. Mathematical Programming, 2022, 196, 673-717.	1.6	6
2	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
3	A Solution Approach to Distributionally Robust Joint-Chance-Constrained Assignment Problems. INFORMS Journal on Optimization, 2022, 4, 125-147.	0.9	7
4	Patient and Clinician Perceptions of Informed Consent and Decision Making About Accepting KDPIâ€‰>â€‰85 Kidneys. Transplantation Direct, 2022, 8, e1254.	0.8	7
5	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
6	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
7	Distributionally Robust Two-Stage Stochastic Programming. SIAM Journal on Optimization, 2022, 32, 1499-1522.	1.2	4
8	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
9	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
10	Predicting Kidney Discard Using Machine Learning. Transplantation, 2021, 105, 2054-2071.	0.5	14
11	Artificial Intelligence-related Literature in Transplantation: A Practical Guide. Transplantation, 2021, 105, 704-708.	0.5	9
12	A study of the lock-free tour problem and path-based reformulations. IISE Transactions, 2020, 52, 603-616.	1.6	0
13	The Authorâ€™s Reply: Improving Functional Status Reporting may Save Patient Lives and Reduce Kidney Discard. Transplantation, 2020, 104, e60-e60.	0.5	0
14	Physician and patient acceptance of policies to reduce kidney discard. Clinical Transplantation, 2020, 34, e14054.	0.8	9
15	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
16	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
17	Distributionally robust optimization with decision dependent ambiguity sets. Optimization Letters, 2020, 14, 2565-2594.	0.9	34
18	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

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19	Functional statusâ€based riskâ€"benefit analyses of highâ€‹<scp>KDPI</scp> kidney transplant versus dialysis. Transplant International, 2019, 32, 1297-1312.	0.8	22
20	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
21	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
22	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
23	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
24	Evaluation of Accepting Kidneys of Varying Quality for Transplantation or Expedited Placement With Decision Trees. Transplantation, 2019, 103, 980-989.	0.5	16
25	Title is missing!. , 2019, 14, e0222826.		0
26	Title is missing!. , 2019, 14, e0222826.		0
27	Title is missing!. , 2019, 14, e0222826.		0
28	Title is missing!. , 2019, 14, e0222826.		0
29	Robust decision making using a general utility set. European Journal of Operational Research, 2018, 269, 699-714.	3.5	16
30	Tight Second Stage Formulations in Two-Stage Stochastic Mixed Integer Programs. SIAM Journal on Optimization, 2018, 28, 788-819.	1.2	11
31	A Concentric Neighborhood Solution to Disparity in Liver Access That Contains Current UNOS Districts. Transplantation, 2018, 102, 255-278.	0.5	12
32	LivSim. Transplantation, 2018, 102, e47-e48.	0.5	5
33	Decomposition Algorithms for Two-Stage Distributionally Robust Mixed Binary Programs. SIAM Journal on Optimization, 2018, 28, 2360-2383.	1.2	34
34	Batch Sample Design from Databases for Logistic Regression. Quality and Reliability Engineering International, 2017, 33, 87-101.	1.4	1
35	Generation of feasible integer solutions on a massively parallel computer using the feasibility pump. Operations Research Letters, 2017, 45, 652-658.	0.5	3
36	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

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37	Patient Associated Motion Detection with Optical Flow Using Microsoft Kinect V2. , 2017, , .		2
38	Lifetime Risk for Sudden Cardiac Death in the Community. Journal of the American Heart Association, 2016, 5, .	1.6	69
39	Designed sampling from large databases for controlled trials. IIE Transactions, 2016, 48, 1087-1097.	2.1	1
40	A Moment Matching Approach for Generating Synthetic Data. Big Data, 2016, 4, 160-178.	2.1	3
41	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
42	Bed angle detection in hospital room using Microsoft Kinect V2. , 2016, , .		6
43	Resolving Misconceptions About Liver Allocation and Redistricting Methodology—Reply. JAMA Surgery, 2016, 151, 992.	2.2	2
44	Stochastic Robust Mathematical Programming Model for Power System Optimization. IEEE Transactions on Power Systems, 2016, 31, 821-822.	4.6	49
45	Methodological Challenges in Solving Geographic Disparity in Liver Allocation. JAMA Surgery, 2016, 151, 109.	2.2	11
46	Improving Geographic Equity in Kidney Transplantation Using Alternative Kidney Sharing and Optimization Modeling. Medical Decision Making, 2015, 35, 797-807.	1.2	21
47	The Authors' Reply. Transplantation, 2015, 99, e160-e161.	0.5	2
48	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
49	Robust Distribution Network Reconfiguration. IEEE Transactions on Smart Grid, 2015, 6, 836-842.	6.2	133
50	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
51	Scenario generation for stochastic optimization problems via the sparse grid method. Computational Optimization and Applications, 2015, 62, 669-692.	0.9	13
52	Modeling the Allocation System. Transplantation, 2015, 99, 278-281.	0.5	20
53	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
54	Applying fault tree analysis to the prevention of wrong-site surgery. Journal of Surgical Research, 2015, 193, 88-94.	0.8	17

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55	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
56	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
57	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
58	Stochastically weighted stochastic dominance concepts with an application in capital budgeting. European Journal of Operational Research, 2014, 232, 572-583.	3.5	10
59	Models and algorithms for distributionally robust least squares problems. Mathematical Programming, 2014, 146, 123-141.	1.6	23
60	An empirical evaluation of walk-and-round heuristics for mixed integer linear programs. Computational Optimization and Applications, 2013, 55, 545-570.	0.9	11
61	Generating Moment Matching Scenarios Using Optimization Techniques. SIAM Journal on Optimization, 2013, 23, 963-999.	1.2	29
62	Computational experience with a modified potential reduction algorithm for linear programming. Optimization Methods and Software, 2012, 27, 865-891.	1.6	4
63	Robust and Stochastically Weighted Multiobjective Optimization Models and Reformulations. Operations Research, 2012, 60, 936-953.	1.2	51
64	Sample average approximation of stochastic dominance constrained programs. Mathematical Programming, 2012, 133, 171-201.	1.6	58
65	Risk-adjusted budget allocation models with application in homeland security. IIE Transactions, 2011, 43, 819-839.	2.1	63
66	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
67	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
68	Validation and characterization of DNA microarray gene expression data distribution and associated moments. BMC Bioinformatics, 2010, 11, 576.	1.2	15
69	A Cutting-Surface Method for Uncertain Linear Programs with Polyhedral Stochastic Dominance Constraints. SIAM Journal on Optimization, 2010, 20, 1250-1273.	1.2	49
70	Prediction range estimation from noisy Raman spectra with robust optimization. Analyst, The, 2010, 135, 2111.	1.7	9
71	FPGA Implementation of the Interior-Point Algorithm with Applications to Collision Detection. , 2009, , .		7
72	Convergence Conditions and Krylov Subspace--Based Corrections for Primal-Dual Interior-Point Method. SIAM Journal on Optimization, 2005, 15, 635-653.	1.2	12

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73	Generating Convex Polynomial Inequalities for Mixed 0–1 Programs. Journal of Global Optimization, 2002, 24, 311-332.	1.1	10
74	A disjunctive cutting plane procedure for general mixed-integer linear programs. Mathematical Programming, 2001, 89, 437-448.	1.6	31
75	Title is missing!. Computational Optimization and Applications, 2001, 20, 159-170.	0.9	24
76	PCx: an interior-point code for linear programming. Optimization Methods and Software, 1999, 11, 397-430.	1.6	57
77	A branch-and-cut method for 0-1 mixed convex programming. Mathematical Programming, 1999, 86, 515-532.	1.6	223
78	Asymptotic convergence in a generalized predictor-corrector method. Mathematical Programming, 1996, 74, 11-28.	1.6	2
79	Solving symmetric indefinite systems in an interior-point method for linear programming. Mathematical Programming, 1993, 62, 15-39.	1.6	66
80	Finding an interior point in the optimal face of linear programs. Mathematical Programming, 1993, 62, 497-515.	1.6	64
81	Quadratic Convergence in a Primal-Dual Method. Mathematics of Operations Research, 1993, 18, 741-751.	0.8	49
82	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
83	On the Implementation of a Primal-Dual Interior Point Method. SIAM Journal on Optimization, 1992, 2, 575-601.	1.2	1,277
84	On computing the center of a convex quadratically constrained set. Mathematical Programming, 1991, 50, 81-89.	1.6	6
85	Chance-Constrained Multiple Bin Packing Problem with an Application to Operating Room Planning. INFORMS Journal on Computing, 0, , .	1.0	4
86	A geometric branch and bound method for robust maximization of convex functions. Journal of Global Optimization, 0, , 1.	1.1	0