

Melvyn Sim

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

56 papers	7,045 citations	28 h-index	68 g-index
68 ext. papers	8,618 ext. citations	2.6 avg, IF	6.36 L-index

#	Paper	IF	Citations
56	The Price of Robustness. <i>Operations Research</i> , 2004 , 52, 35-53	2.3	2485
55	Robust discrete optimization and network flows. <i>Mathematical Programming</i> , 2003 , 98, 49-71	2.1	1090
54	Distributionally Robust Convex Optimization. <i>Operations Research</i> , 2014 , 62, 1358-1376	2.3	365
53	Distributionally Robust Optimization and Its Tractable Approximations. <i>Operations Research</i> , 2010 , 58, 902-917	2.3	324
52	Robust linear optimization under general norms. <i>Operations Research Letters</i> , 2004 , 32, 510-516	1	290
51	A Robust Optimization Perspective on Stochastic Programming. <i>Operations Research</i> , 2007 , 55, 1058-1071	2.3	224
50	Optimising train movements through coast control using genetic algorithms. <i>IET Electric Power Applications</i> , 1997 , 144, 65		212
49	Risk Aversion in Inventory Management. <i>Operations Research</i> , 2007 , 55, 828-842	2.3	208
48	Tractable Approximations to Robust Conic Optimization Problems. <i>Mathematical Programming</i> , 2006 , 107, 5-36	2.1	202
47	From CVaR to Uncertainty Set: Implications in Joint Chance-Constrained Optimization. <i>Operations Research</i> , 2010 , 58, 470-485	2.3	180
46	Vehicle routing problem with time windows and a limited number of vehicles. <i>European Journal of Operational Research</i> , 2003 , 148, 559-569	5.6	152
45	A Linear Decision-Based Approximation Approach to Stochastic Programming. <i>Operations Research</i> , 2008 , 56, 344-357	2.3	133
44	Constructing Risk Measures from Uncertainty Sets. <i>Operations Research</i> , 2009 , 57, 1129-1141	2.3	112
43	Robust Approximation to Multiperiod Inventory Management. <i>Operations Research</i> , 2010 , 58, 583-594	2.3	97
42	Incorporating Asymmetric Distributional Information in Robust Value-at-Risk Optimization. <i>Management Science</i> , 2008 , 54, 573-585	3.9	93
41	Adaptive Distributionally Robust Optimization. <i>Management Science</i> , 2019 , 65, 604-618	3.9	75
40	TRACTABLE ROBUST EXPECTED UTILITY AND RISK MODELS FOR PORTFOLIO OPTIMIZATION. <i>Mathematical Finance</i> , 2010 , 20, 695-731	2.3	68

39	Satisficing Measures for Analysis of Risky Positions. <i>Management Science</i> , 2009 , 55, 71-84	3.9	66
38	Goal-Driven Optimization. <i>Operations Research</i> , 2009 , 57, 342-357	2.3	60
37	Robust Optimization Made Easy with ROME. <i>Operations Research</i> , 2011 , 59, 973-985	2.3	56
36	Routing Optimization Under Uncertainty. <i>Operations Research</i> , 2016 , 64, 186-200	2.3	52
35	Robust Storage Assignment in Unit-Load Warehouses. <i>Management Science</i> , 2012 , 58, 2114-2130	3.9	52
34	Managing Underperformance Risk in Project Portfolio Selection. <i>Operations Research</i> , 2015 , 63, 660-675	2.3	45
33	Location and Routing Models for Emergency Response Plans with Priorities. <i>Communications in Computer and Information Science</i> , 2012 , 129-140	0.3	42
32	Adjustable Robust Optimization via Fourier-Motzkin Elimination. <i>Operations Research</i> , 2018 , 66, 1086-1100	3.3	33
31	Portfolio value-at-risk optimization for asymmetrically distributed asset returns. <i>European Journal of Operational Research</i> , 2012 , 221, 397-406	5.6	33
30	A Robust Optimization Model for Managing Elective Admission in a Public Hospital. <i>Operations Research</i> , 2015 , 63, 1452-1467	2.3	32
29	Aspirational Preferences and Their Representation by Risk Measures. <i>Management Science</i> , 2012 , 58, 2095-2113	3.9	32
28	Robust Stochastic Optimization Made Easy with R SOME. <i>Management Science</i> , 2020 , 66, 3329-3339	3.9	24
27	Asymmetry and Ambiguity in Newsvendor Models. <i>Management Science</i> , 2018 , 64, 3146-3167	3.9	23
26	Distributionally Robust Optimization with Infinitely Constrained Ambiguity Sets. <i>Operations Research</i> , 2019 , 67, 1328-1344	2.3	20
25	Convergence properties of constrained linear system under MPC control law using affine disturbance feedback. <i>Automatica</i> , 2009 , 45, 1715-1720	5.7	16
24	Routing optimization with time windows under uncertainty. <i>Mathematical Programming</i> , 2019 , 175, 263-305	3.05	16
23	Preferences for travel time under risk and ambiguity: Implications in path selection and network equilibrium. <i>Transportation Research Part B: Methodological</i> , 2016 , 94, 264-284	7.2	15
22	Multiple Objectives Satisficing Under Uncertainty. <i>Operations Research</i> , 2013 , 61, 214-227	2.3	14

21	An optimization model for power grid fortification to maximize attack immunity. <i>International Journal of Electrical Power and Energy Systems</i> , 2018 , 99, 594-602	5.1	13
20	Model Predictive Control Using Segregated Disturbance Feedback. <i>IEEE Transactions on Automatic Control</i> , 2010 , 55, 831-840	5.9	13
19	Constrained linear system with disturbance: Convergence under disturbance feedback. <i>Automatica</i> , 2008 , 44, 2583-2587	5.7	10
18	Data-Driven Patient Scheduling in Emergency Departments: A Hybrid Robust-Stochastic Approach. <i>Management Science</i> , 2019 , 65, 4123-4140	3.9	9
17	On Dynamic Decision Making to Meet Consumption Targets. <i>Operations Research</i> , 2015 , 63, 1117-1130	2.3	9
16	Model predictive control using affine disturbance feedback for constrained linear system 2007 ,		8
15	Risk-Based Manpower Planning: A Tractable Multi-Period Model. <i>SSRN Electronic Journal</i> , 2018 ,	1	5
14	Robust Data-Driven Vehicle Routing with Time Windows. <i>Operations Research</i> , 2021 , 69, 469-485	2.3	5
13	SKEWNESS-AWARE ASSET ALLOCATION: A NEW THEORETICAL FRAMEWORK AND EMPIRICAL EVIDENCE. <i>Mathematical Finance</i> , 2012 , 22, 379-410	2.3	4
12	Beyond Risk: Ambiguity in Supply Chains		4
11	Linear systems with chance constraints: Constraint-admissible set and applications in predictive control 2009 ,		3
10	Constrained linear system under disturbance feedback: Convergence with probability one 2008 ,		3
9	Joint Estimation and Robustness Optimization. <i>SSRN Electronic Journal</i> , 2019 ,	1	2
8	Model predictive control using segregated disturbance feedback 2008 ,		2
7	The Dao of Robustness. <i>SSRN Electronic Journal</i> ,	1	2
6	Strategic Workforce Planning Under Uncertainty. <i>Operations Research</i> , 2022 , 70, 1042-1065	2.3	2
5	Portfolio Value-at-Risk Optimization for Asymmetrically Distributed Asset Returns. <i>SSRN Electronic Journal</i> , 2009 ,	1	1
4	Distributed model predictive control of dynamically decoupled linear systems with coupled cost 2009 ,		1

3	Robust Satisficing. <i>Operations Research</i> ,	2.3	1
2	Goal scoring, coherent loss and applications to machine learning. <i>Mathematical Programming</i> , 2020 , 182, 103-140	2.1	1
1	Robust Conic Satisficing. <i>SSRN Electronic Journal</i> ,	1	1