

David P Morton

List of Publications by Year in descending order

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Version: 2024-02-01

102
papers

3,226
citations

230014

27
h-index

190340

53
g-index

107
all docs

107
docs citations

107
times ranked

2776
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimizing diesel fuel supply chain operations to mitigate power outages for hurricane relief. IISE Transactions, 2022, 54, 936-949.	1.6	4
2	Distributionally Robust Two-Stage Stochastic Programming. SIAM Journal on Optimization, 2022, 32, 1499-1522.	1.2	4
3	Robust Optimization for Electricity Generation. INFORMS Journal on Computing, 2021, 33, 336-351.	1.0	10
4	Expanding Access to COVID-19 Tests through US Postal Service Facilities. Medical Decision Making, 2021, 41, 3-8.	1.2	1
5	How good are default investment policies in defined contribution pension plans?. Journal of Pension Economics and Finance, 2021, 20, 252-272.	0.6	4
6	Selecting pharmacies for COVID-19 testing to ensure access. Health Care Management Science, 2021, 24, 330-338.	1.5	26
7	Design of COVID-19 staged alert systems to ensure healthcare capacity with minimal closures. Nature Communications, 2021, 12, 3767.	5.8	27
8	Optimal Design and Operation of River Basin Storage under Hydroclimatic Uncertainty. Journal of Water Resources Planning and Management - ASCE, 2021, 147, 04021055.	1.3	2
9	Efficient Portfolios Computed via Moment-Based Bounding-approximations: Part II - DBFS. , 2021, , .		0
10	Partially observable multistage stochastic programming. Operations Research Letters, 2020, 48, 505-512.	0.5	3
11	Timing social distancing to avert unmanageable COVID-19 hospital surges. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 19873-19878.	3.3	56
12	Distributionally Robust Stochastic Dual Dynamic Programming. SIAM Journal on Optimization, 2020, 30, 2841-2865.	1.2	11
13	Analyzing client behavior in a syringe exchange program. IISE Transactions on Healthcare Systems Engineering, 2020, 10, 142-157.	1.2	0
14	Decarbonizing electricity requires re-evaluating capacity mechanisms. Nature Energy, 2019, 4, 912-913.	19.8	3
15	Asymmetric risk and fuel neutrality in electricity capacity markets. Nature Energy, 2019, 4, 948-956.	19.8	36
16	Efficient Portfolios Computed via Moment-Based Bounding-approximations: Part I - EB. , 2019, , .		1
17	Minimum-risk routing through a mapped minefield. Networks, 2019, 73, 358-376.	1.6	4
18	An adaptive model with joint chance constraints for a hybrid wind-conventional generator system. Computational Management Science, 2018, 15, 563-582.	0.8	8

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19	Flow Balancing with Uncertain Demand for Automated Package Sorting Centers. <i>Transportation Science</i> , 2018, 52, 210-227.	2.6	7
20	The stochastic programming heritage of Maarten van der Vlerk. <i>Computational Management Science</i> , 2018, 15, 319-323.	0.8	1
21	Staffing call centers under arrival-rate uncertainty with Bayesian updates. <i>Operations Research Letters</i> , 2018, 46, 379-384.	0.5	8
22	Assessing policy quality in a multistage stochastic program for long-term hydrothermal scheduling. <i>Annals of Operations Research</i> , 2017, 253, 713-731.	2.6	13
23	Bayesian failure-rate modeling and preventive maintenance optimization. <i>European Journal of Operational Research</i> , 2017, 262, 1085-1093.	3.5	28
24	Assessing the Quality of Convex Approximations for Two-Stage Totally Unimodular Integer Recourse Models. <i>INFORMS Journal on Computing</i> , 2017, 29, 211-231.	1.0	10
25	Mean-Variance-Skewness-Kurtosis efficiency of portfolios computed via moment-based bounds. , 2017, , .		4
26	Optimizing the design of a latin hypercube sampling estimator. , 2017, , .		6
27	Stockpiling Ventilators for Influenza Pandemics. <i>Emerging Infectious Diseases</i> , 2017, 23, 914-921.	2.0	53
28	Equalizing access to pandemic influenza vaccines through optimal allocation to public health distribution points. <i>PLoS ONE</i> , 2017, 12, e0182720.	1.1	21
29	Modeling and Optimization of a Spatial Detection System. <i>INFORMS Journal on Computing</i> , 2016, 28, 512-526.	1.0	1
30	Forward thresholds for operation of pumped-storage stations in the real-time energy market. <i>European Journal of Operational Research</i> , 2016, 254, 253-268.	3.5	19
31	Prioritized interdiction of nuclear smuggling via tabu search. <i>Optimization Letters</i> , 2015, 9, 1477-1494.	0.9	7
32	A Stochastic Transmission Planning Model With Dependent Load and Wind Forecasts. <i>IEEE Transactions on Power Systems</i> , 2015, 30, 3003-3011.	4.6	91
33	Optimizing Distribution of Pandemic Influenza Antiviral Drugs. <i>Emerging Infectious Diseases</i> , 2015, 21, 251-258.	2.0	14
34	Optimization of stochastic virus detection in contact networks. <i>Operations Research Letters</i> , 2015, 43, 59-64.	0.5	6
35	Prioritization via Stochastic Optimization. <i>Management Science</i> , 2015, 61, 586-603.	2.4	7
36	Evaluating policies in risk-averse multi-stage stochastic programming. <i>Mathematical Programming</i> , 2015, 152, 275-300.	1.6	55

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37	Securing a border under asymmetric information. Naval Research Logistics, 2014, 61, 91-100.	1.4	30
38	Efficient Algorithms for Budget-Constrained Markov Decision Processes. IEEE Transactions on Automatic Control, 2014, 59, 2813-2817.	3.6	5
39	Convex hull representation of the deterministic bipartite network interdiction problem. Mathematical Programming, 2014, 145, 349-376.	1.6	9
40	Optimal electricity rate structures for peak demand reduction using economic model predictive control. Journal of Process Control, 2014, 24, 1311-1317.	1.7	29
41	Asymptotically optimal staffing of service systems with joint QoS constraints. Queueing Systems, 2014, 78, 359-386.	0.6	6
42	Sensitivity Analyses of a Simulation Model for Estimating Fiber-Induced Sump Screen and Core Failure Rates. , 2014, , .		1
43	Selecting malaria interventions: A top-down approach. Computers and Operations Research, 2013, 40, 2229-2240.	2.4	6
44	Interdiction Models and Applications. Profiles in Operations Research, 2013, , 73-103.	0.3	10
45	Sharing cuts under aggregated forecasts when decomposing multi-stage stochastic programs. Operations Research Letters, 2013, 41, 311-316.	0.5	32
46	Convex Approximations of a Probabilistic Bicriteria Model with Disruptions. INFORMS Journal on Computing, 2013, 25, 147-160.	1.0	6
47	Modeling hedge fund leverage via power utility with subsistence. Journal of Derivatives and Hedge Funds, 2013, 19, 77-85.	0.3	1
48	Prioritizing Network Interdiction of Nuclear Smuggling. World Scientific Series in Finance, 2013, , 313-346.	0.1	3
49	Managing capacity flexibility in make-to-order production environments. European Journal of Operational Research, 2012, 216, 334-345.	3.5	34
50	Network deployment of radiation detectors with physics-based detection probability calculations. Annals of Operations Research, 2011, 187, 207-228.	2.6	26
51	A combined deterministic and sampling-based sequential bounding method for stochastic programming. , 2011, , .		6
52	A Sequential Sampling Procedure for Stochastic Programming. Operations Research, 2011, 59, 898-913.	1.2	72
53	Simulation-Based Optimality Tests for Stochastic Programs. Profiles in Operations Research, 2010, , 37-55.	0.3	2
54	Asset Allocation with Subsistence: The Role of Returns' Higher Moments. SSRN Electronic Journal, 2009, , .	0.4	1

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55	Simulating cointegrated time series. , 2009, , .		1
56	MINIMIZING MAKESPAN IN A MULTICLASS FLUID NETWORK WITH PARAMETER UNCERTAINTY. Probability in the Engineering and Informational Sciences, 2009, 23, 457-480.	0.6	0
57	Prioritizing Project Selection. Engineering Economist, 2009, 54, 267-297.	0.3	28
58	Estimating the efficient frontier of a probabilistic bicriteria model. , 2009, , .		3
59	Bayesian non-parametric simulation of hazard functions. , 2009, , .		0
60	Assessing Solution Quality in Stochastic Programs via Sampling. , 2009, , 102-122.		22
61	Bayesian Nonparametric Analysis of Single Item Preventive Maintenance Strategies. , 2009, , .		3
62	Combinatorial Design of a Stochastic Markov Decision Process. , 2009, , 167-193.		7
63	Minimizing a stochastic maximum reliability path. Networks, 2008, 52, 111-119.	1.6	65
64	Incorporating uncertainty about speciesâ€™ potential distributions under climate change into the selection of conservation areas with a case study from the Arctic Coastal Plain of Alaska. Biological Conservation, 2008, 141, 1547-1559.	1.9	33
65	Optimizing Project Prioritization Under Budget Uncertainty. , 2008, , .		3
66	Sequential sampling for solving stochastic programs. , 2007, , .		2
67	Optimizing Benchmark-Based Portfolios with Hedge Funds. Journal of Alternative Investments, 2007, 10, 35-55.	0.3	13
68	Models for nuclear smuggling interdiction. IIE Transactions, 2007, 39, 3-14.	2.1	175
69	Workforce planning at USPS mail processing and distribution centers using stochastic optimization. Annals of Operations Research, 2007, 155, 51-78.	2.6	55
70	Project Prioritization via Optimization. , 2007, , .		2
71	Incorporation of Unit 1 Inspection Results on the STP Reactor Vessel Head Nuclear Asset Management Analysis. , 2007, , .		0
72	Linear Programming Approach to Optimize Strategic Investment in the Construction Workforce. Journal of Construction Engineering and Management - ASCE, 2006, 132, 1158-1166.	2.0	37

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73	Efficient fund of hedge funds construction under downside risk measures. Journal of Banking and Finance, 2006, 30, 503-518.	1.4	66
74	Assessing solution quality in stochastic programs. Mathematical Programming, 2006, 108, 495-514.	1.6	107
75	Jackknife Estimators for Reducing Bias in Asset Allocation. , 2006, , .		9
76	Second-Order Lower Bounds on the Expectation of a Convex Function. Mathematics of Operations Research, 2005, 30, 662-677.	0.8	21
77	Smoothing Monte Carlo Exchange Factors through Constrained Maximum Likelihood Estimation. Journal of Heat Transfer, 2005, 127, 1124-1128.	1.2	27
78	21. Groundwater Pollution Control. , 2005, , 409-424.		3
79	A Bayesian stochastic programming approach to an employee scheduling problem. IIE Transactions, 2004, 36, 155-167.	2.1	25
80	Geometric Optimization of Radiant Enclosures Containing Specular Surfaces. Journal of Heat Transfer, 2003, 125, 845-851.	1.2	51
81	Stochastic Vehicle Routing with Random Travel Times. Transportation Science, 2003, 37, 69-82.	2.6	239
82	A Stochastic Program for Interdicting Smuggled Nuclear Material. , 2003, , 1-19.		37
83	Testing Solution Quality in Stochastic Programs. , 2003, , 395-400.		0
84	Assignment and Allocation Optimization of Partially Multiskilled Workforce. Journal of Construction Engineering and Management - ASCE, 2002, 128, 103-109.	2.0	115
85	Optimizing Military Airlift. Operations Research, 2002, 50, 582-602.	1.2	62
86	Restricted-Recourse Bounds for Stochastic Linear Programming. Operations Research, 1999, 47, 943-956.	1.2	30
87	Monte Carlo bounding techniques for determining solution quality in stochastic programs. Operations Research Letters, 1999, 24, 47-56.	0.5	501
88	Response surface analysis of two-stage stochastic linear programming with recourse. Naval Research Logistics, 1999, 46, 753-776.	1.4	22
89	Response surface analysis of two-stage stochastic linear programming with recourse. Naval Research Logistics, 1999, 46, 753-776.	1.4	1
90	Stochastic Network Interdiction. Operations Research, 1998, 46, 184-197.	1.2	261

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91	Stopping Rules for a Class of Sampling-Based Stochastic Programming Algorithms. Operations Research, 1998, 46, 710-718.	1.2	13
92	On a Stochastic Knapsack Problem and Generalizations. Operations Research/ Computer Science Interfaces Series, 1998, , 149-168.	0.3	28
93	Application and Extension of the Thruput II Optimization Model for Airlift Mobility. , 1997, 3, 55-74.		14
94	An enhanced decomposition algorithm for multistage stochastic hydroelectric scheduling. Annals of Operations Research, 1996, 64, 211-235.	2.6	49
95	Cut sharing for multistage stochastic linear programs with interstage dependency. Mathematical Programming, 1996, 75, 241-256.	1.6	119
96	Optimization Modeling for Airlift Mobility. , 1996, 1, 49-67.		16
97	SOCRATES: A system for scheduling hydroelectric generation under uncertainty. Annals of Operations Research, 1995, 59, 99-133.	2.6	102
98	Decomposing Loosely Coupled Mixed-Integer Programs for Optimal Microgrid Design. INFORMS Journal on Computing, 0, , .	1.0	2
99	Optimal hierarchical clustering on a graph. Networks, 0, , .	1.6	1
100	Optimal crashing of an activity network with disruptions. Mathematical Programming, 0, , 1.	1.6	0
101	Optimal Hedge Fund Allocation with Asymmetric Preferences and Distributions. SSRN Electronic Journal, 0, , .	0.4	9
102	Optimizing Benchmark-Based Portfolios with Hedge Funds. SSRN Electronic Journal, 0, , .	0.4	2