

# Laura A Mclay

## List of Publications by Year in descending order

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Version: 2024-02-01

74  
papers

2,023  
citations

257101

24  
h-index

276539

41  
g-index

76  
all docs

76  
docs citations

76  
times ranked

1159  
citing authors

#	ARTICLE	IF	CITATIONS
1	Homeland security research opportunities. IISE Transactions, 2023, 55, 22-31.	1.6	6
2	Designing pandemic-resilient voting systems. Socio-Economic Planning Sciences, 2022, 80, 101174.	2.5	9
3	Task recommendations for self-assigning spontaneous volunteers. Computers and Industrial Engineering, 2022, 163, 107798.	3.4	6
4	Dispatching policies during prolonged mass casualty incidents. Journal of the Operational Research Society, 2022, 73, 2536-2550.	2.1	4
5	A survey of optimization models and methods for cyberinfrastructure security. IISE Transactions, 2021, 53, 182-198.	1.6	10
6	Risk management for cyber-infrastructure protection: A bi-objective integer programming approach. Reliability Engineering and System Safety, 2021, 205, 107093.	5.1	8
7	A review of risk-based security and its impact on TSA PreCheck. IISE Transactions, 2021, 53, 657-670.	1.6	6
8	A Stochastic Programming Approach for Locating and Dispatching Two Types of Ambulances. Transportation Science, 2021, 55, 275-296.	2.6	32
9	Dynamic dispatch policies for emergency response with multiple types of vehicles. Transportation Research, Part E: Logistics and Transportation Review, 2021, 152, 102405.	3.7	14
10	Impact of a community-policing initiative promoting substance use disorder treatment over criminal charges on arrest recidivism. Drug and Alcohol Dependence, 2021, 227, 108915.	1.6	2
11	Location of trauma care resources with inter-facility patient transfers. Operations Research Perspectives, 2021, 8, 100206.	1.2	0
12	A maximal multiple coverage and network restoration problem for disaster recovery. Operations Research Perspectives, 2020, 7, 100132.	1.2	16
13	A dynamic ambulance routing model with multiple response. Transportation Research, Part E: Logistics and Transportation Review, 2020, 133, 101807.	3.7	20
14	Engaging the Media: Telling Our Operations Research Stories to the Public. SN Operations Research Forum, 2020, 1, 1.	0.6	0
15	Joint relocation and districting using a nested compliance model for EMS systems. Computers and Industrial Engineering, 2020, 142, 106327.	3.4	14
16	A Robust Approach for Mitigating Risks in Cyber Supply Chains. Risk Analysis, 2019, 39, 2076-2092.	1.5	22
17	Interdiction models for delaying adversarial attacks against critical information technology infrastructure. Naval Research Logistics, 2019, 66, 411-429.	1.4	15
18	A budgeted maximum multiple coverage model for cybersecurity planning and management. IISE Transactions, 2019, 51, 1303-1317.	1.6	23

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19	Identifying trade-offs in equity and efficiency for simultaneously optimizing location and multipriority dispatch of ambulances. <i>International Transactions in Operational Research</i> , 2019, 26, 415-438.	1.8	28
20	Resilience-driven restoration model for interdependent infrastructure networks. <i>Reliability Engineering and System Safety</i> , 2019, 185, 12-23.	5.1	144
21	Expert Judgment Based Nuclear Threat Assessment for Vessels Arriving in the US. <i>Profiles in Operations Research</i> , 2018, , 495-509.	0.3	1
22	An exact algorithm for solving the bilevel facility interdiction and fortification problem. <i>Operations Research Letters</i> , 2018, 46, 573-578.	0.5	9
23	An integrated network design and scheduling problem for network recovery and emergency response. <i>Operations Research Perspectives</i> , 2018, 5, 218-231.	1.2	33
24	An expected coverage model with a cutoff priority queue. <i>Health Care Management Science</i> , 2018, 21, 517-533.	1.5	16
25	A Maximum Expected Covering Problem for District Design. <i>Transportation Science</i> , 2017, 51, 376-390.	2.6	30
26	An approximate hypercube model for public service systems with co-located servers and multiple response. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , 2017, 103, 143-157.	3.7	16
27	A nested-compliance table policy for emergency medical service systems under relocation. <i>Omega</i> , 2016, 58, 154-168.	3.6	42
28	Infrastructure Systems, Risk Analysis, and Resilience-Research Gaps and Opportunities. <i>Risk Analysis</i> , 2015, 35, 560-561.	1.5	11
29	Reducing disparities in large-scale emergency medical service systems. <i>Journal of the Operational Research Society</i> , 2015, 66, 1169-1181.	2.1	33
30	A maximum expected covering problem for locating and dispatching two classes of military medical evacuation air assets. <i>Optimization Letters</i> , 2015, 9, 1511-1531.	0.9	20
31	DVT Surveillance Program in the ICU: Analysis of Cost-Effectiveness. <i>PLoS ONE</i> , 2014, 9, e106793.	1.1	25
32	Priority dispatching strategies for EMS systems. <i>Journal of the Operational Research Society</i> , 2014, 65, 572-587.	2.1	59
33	Recommendations for dispatching emergency vehicles under multitiered response via simulation. <i>International Transactions in Operational Research</i> , 2014, 21, 581-617.	1.8	23
34	The minimum p-envy location problem with requirement on minimum survival rate. <i>Computers and Industrial Engineering</i> , 2014, 74, 228-239.	3.4	20
35	Improving emergency service in rural areas: a bi-objective covering location model for EMS systems. <i>Annals of Operations Research</i> , 2014, 221, 133-159.	2.6	84
36	Guidance on Publishing in the Mathematical Modeling Area for Risk Analysis. <i>Risk Analysis</i> , 2014, 34, 1778-1779.	1.5	0

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37	An integrated model for screening cargo containers. <i>European Journal of Operational Research</i> , 2013, 230, 181-189.	3.5	9
38	Determining minimum staffing levels during snowstorms using an integrated simulation, regression, and reliability model. <i>Health Care Management Science</i> , 2013, 16, 14-26.	1.5	8
39	A model for optimally dispatching ambulances to emergency calls with classification errors in patient priorities. <i>IIE Transactions</i> , 2013, 45, 1-24.	2.1	78
40	A Dispatching Model for Server-to-Customer Systems That Balances Efficiency and Equity. <i>Manufacturing and Service Operations Management</i> , 2013, 15, 205-220.	2.3	66
41	Joint location and dispatching decisions for Emergency Medical Services. <i>Computers and Industrial Engineering</i> , 2013, 64, 917-928.	3.4	112
42	Districting and dispatching policies for emergency medical service systems to improve patient survival. <i>IIE Transactions on Healthcare Systems Engineering</i> , 2013, 3, 39-56.	0.8	36
43	Optimal dispatching strategies for emergency vehicles to increase patient survivability. <i>International Journal of Operational Research</i> , 2012, 15, 195.	0.1	36
44	Robust Adversarial Risk Analysis: A Level-k Approach. <i>Decision Analysis</i> , 2012, 9, 41-54.	1.2	57
45	Hanover County Improves Its Response to Emergency Medical 911 Patients. <i>Interfaces</i> , 2012, 42, 380-394.	1.6	5
46	Modeling Equity for Allocating Public Resources. <i>Profiles in Operations Research</i> , 2012, , 97-118.	0.3	21
47	Multilevel, threshold-based policies for cargo container security screening systems. <i>European Journal of Operational Research</i> , 2012, 220, 522-529.	3.5	24
48	Analyzing the volume and nature of emergency medical calls during severe weather events using regression methodologies. <i>Socio-Economic Planning Sciences</i> , 2012, 46, 55-66.	2.5	21
49	Evaluating the impact of performance goals on dispatching decisions in emergency medical service. <i>IIE Transactions on Healthcare Systems Engineering</i> , 2011, 1, 185-196.	0.8	14
50	The minimum $p$ -envy location problem: a new model for equitable distribution of emergency resources. <i>IIE Transactions on Healthcare Systems Engineering</i> , 2011, 1, 101-115.	0.8	73
51	Interdicting nuclear material on cargo containers using knapsack problem models. <i>Annals of Operations Research</i> , 2011, 187, 185-205.	2.6	24
52	Rethinking the encounter probability for direct-to-target nuclear attacks for aviation security. <i>Journal of Transportation Security</i> , 2011, 4, 247-280.	0.9	1
53	Is Screening Cargo Containers for Smuggled Nuclear Threats Worthwhile?. <i>Decision Analysis</i> , 2010, 7, 155-171.	1.2	47
54	Evaluating emergency medical service performance measures. <i>Health Care Management Science</i> , 2010, 13, 124-136.	1.5	88

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55	Using simulation-optimization to construct screening strategies for cervical cancer. <i>Health Care Management Science</i> , 2010, 13, 294-318.	1.5	19
56	Risk-Based Policies for Airport Security Checkpoint Screening. <i>Transportation Science</i> , 2010, 44, 333-349.	2.6	68
57	A sequential stochastic passenger screening problem for aviation security. <i>IIE Transactions</i> , 2009, 41, 575-591.	2.1	37
58	Applying statistical tests to empirically compare tabu search parameters for MAX 3-SATISFIABILITY: A case study. <i>Omega</i> , 2009, 37, 522-534.	3.6	2
59	A maximum expected covering location model with two types of servers. <i>IIE Transactions</i> , 2009, 41, 730-741.	2.1	69
60	Designing Aviation Security Passenger Screening Systems Using Nonlinear Control. <i>SIAM Journal on Control and Optimization</i> , 2009, 48, 2085-2105.	1.1	16
61	The tradeoff between technology and prescreening intelligence in checked baggage screening for aviation security. <i>Journal of Transportation Security</i> , 2008, 1, 107-126.	0.9	18
62	Integer programming models and analysis for a multilevel passenger screening problem. <i>IIE Transactions</i> , 2007, 39, 73-81.	2.1	34
63	A Sequential Stochastic Security System Design Problem for Aviation Security. <i>Transportation Science</i> , 2007, 41, 182-194.	2.6	46
64	Integer knapsack problems with set-up weights. <i>Computational Optimization and Applications</i> , 2007, 37, 35-47.	0.9	8
65	Algorithms for the bounded set-up knapsack problem. <i>Discrete Optimization</i> , 2007, 4, 206-212.	0.6	15
66	The Economic Impact of Obesity on Automobile Fuel Consumption. <i>Engineering Economist</i> , 2006, 51, 307-323.	0.3	31
67	Optimal search strategies using simultaneous generalized hill climbing algorithms. <i>Mathematical and Computer Modelling</i> , 2006, 43, 1061-1073.	2.0	14
68	A multilevel passenger screening problem for aviation security. <i>Naval Research Logistics</i> , 2006, 53, 183-197.	1.4	58
69	Visiting near-optimal solutions using local search algorithms. , 2006, , 471-481.		2
70	Modeling and analyzing multiple station baggage screening security system performance. <i>Naval Research Logistics</i> , 2005, 52, 30-45.	1.4	21
71	Performance Analysis of Cyclical Simulated Annealing Algorithms. <i>Methodology and Computing in Applied Probability</i> , 2005, 7, 183-201.	0.7	7
72	Integer Programming Models for Deployment of Airport Baggage Screening Security Devices. <i>Optimization and Engineering</i> , 2005, 6, 339-359.	1.3	17

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73	Simultaneous Generalized Hill-Climbing Algorithms for Addressing Sets of Discrete Optimization Problems. <i>INFORMS Journal on Computing</i> , 2005, 17, 438-450.	1.0	10
74	Efficient Genetic Algorithms Using Discretization Scheduling. <i>Evolutionary Computation</i> , 2005, 13, 353-385.	2.3	1