

Michael Ball

List of Publications by Year in descending order

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Version: 2024-02-01

71
papers

4,323
citations

136950

32
h-index

110387

64
g-index

72
all docs

72
docs citations

72
times ranked

2033
citing authors

#	ARTICLE	IF	CITATIONS
1	The Complexity of Counting Cuts and of Computing the Probability that a Graph is Connected. SIAM Journal on Computing, 1983, 12, 777-788.	1.0	569
2	Computational Complexity of Network Reliability Analysis: An Overview. IEEE Transactions on Reliability, 1986, 35, 230-239.	4.6	374
3	Sequencing of Insertions in Printed Circuit Board Assembly. Operations Research, 1988, 36, 192-201.	1.9	236
4	A Reliability Model Applied to Emergency Service Vehicle Location. Operations Research, 1993, 41, 18-36.	1.9	228
5	Complexity of network reliability computations. Networks, 1980, 10, 153-165.	2.7	213
6	Inventory/routing: Reduction from an annual to a short-period problem. Naval Research Logistics, 1987, 34, 891-905.	2.2	191
7	Estimating Flight Departure Delay Distributions—A Statistical Approach With Long-Term Trend and Short-Term Pattern. Journal of the American Statistical Association, 2008, 103, 112-125.	3.1	151
8	Finding the most vital arcs in a network. Operations Research Letters, 1989, 8, 73-76.	0.7	150
9	Calculating bounds on reachability and connectedness in stochastic networks. Networks, 1983, 13, 253-278.	2.7	130
10	Computing Network Reliability. Operations Research, 1979, 27, 823-838.	1.9	122
11	Computing Network Reliability in Time Polynomial in the Number of Cuts. Operations Research, 1984, 32, 516-526.	1.9	119
12	Toward Robust Revenue Management: Competitive Analysis of Online Booking. Operations Research, 2009, 57, 950-963.	1.9	117
13	A Stochastic Integer Program with Dual Network Structure and Its Application to the Ground-Holding Problem. Operations Research, 2003, 51, 167-171.	1.9	116
14	A Matching Based Heuristic for Scheduling Mass Transit Crews and Vehicles. Transportation Science, 1983, 17, 4-31.	4.4	102
15	Chapter 1 Air Transportation: Irregular Operations and Control. Handbooks in Operations Research and Management Science, 2007, 14, 1-67.	0.6	96
16	Optimization and mediated bartering models for ground delay programs. Naval Research Logistics, 2006, 53, 75-90.	2.2	94
17	An analysis of alternative strategies for implementing matching algorithms. Networks, 1983, 13, 517-549.	2.7	75
18	Disjoint Products and Efficient Computation of Reliability. Operations Research, 1988, 36, 703-715.	1.9	75

#	ARTICLE	IF	CITATIONS
19	Quantity and Due Date Quoting Available to Promise. Information Systems Frontiers, 2001, 3, 477-488.	6.4	75
20	Slot Trading Opportunities in Collaborative Ground Delay Programs. Transportation Science, 2006, 40, 29-43.	4.4	74
21	Ground Delay Program Planning Under Uncertainty Based on the Ration-by-Distance Principle. Transportation Science, 2010, 44, 1-14.	4.4	73
22	Revenue Management with Limited Demand Information. Management Science, 2008, 54, 1594-1609.	4.1	68
23	The Rollonâ€Rolloff Vehicle Routing Problem. Transportation Science, 2000, 34, 271-288.	4.4	67
24	Do more US airports need slot controls? A welfare based approach to determine slot levels. Transportation Research Part B: Methodological, 2012, 46, 1239-1259.	5.9	67
25	Optimization-Based Available-To-Promise with Multi-Stage Resource Availability. Annals of Operations Research, 2005, 135, 65-85.	4.1	57
26	A General Approach to Equity in Traffic Flow Management and Its Application to Mitigating Exemption Bias in Ground Delay Programs. Air Traffic Control Quarterly, 2003, 11, 277-292.	0.7	53
27	Managing an Available-to-Promise Assembly System with Dynamic Short-Term Pseudo-Order Forecast. Management Science, 2012, 58, 770-790.	4.1	49
28	A Graph Partitioning Approach to Airline Crew Scheduling. Transportation Science, 1985, 19, 107-126.	4.4	46
29	A Comparison of Formulations for the Single-Airport Ground-Holding Problem with Banking Constraints. Operations Research, 2000, 48, 578-590.	1.9	44
30	Stochastic optimization models for ground delay program planning with equityâ€efficiency tradeoffs. Transportation Research Part C: Emerging Technologies, 2013, 33, 196-202.	7.6	40
31	Flight Delay Propagation Impact on Strategic Air Traffic Flow Management. Transportation Research Record, 2010, 2177, 105-113.	1.9	38
32	Reliability covering problems. Networks, 1991, 21, 345-357.	2.7	36
33	Shortest paths with euclidean distances: An explanatory model. Networks, 1978, 8, 297-314.	2.7	34
34	The design and analysis of heuristics. Networks, 1981, 11, 215-219.	2.7	33
35	Regret in Overbooking and Fare-Class Allocation for Single Leg. Manufacturing and Service Operations Management, 2011, 13, 194-208.	3.7	30
36	Current and future research directions in network optimization. Computers and Operations Research, 1981, 8, 71-81.	4.0	22

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37	MANDATE: managing networks using database technology. IEEE Journal on Selected Areas in Communications, 1993, 11, 1360-1372.	14.0	22
38	Stochastic Optimization Models for Transferring Delay Along Flight Trajectories to Reduce Fuel Usage. Transportation Science, 2018, 52, 134-149.	4.4	22
39	Determining the Number of Airport Arrival Slots. Transportation Science, 2013, 47, 526-541.	4.4	17
40	Matching problems with generalized upper bound side constraints. Networks, 1990, 20, 703-721.	2.7	16
41	Quantity-Contingent Auctions and Allocation of Airport Slots. Transportation Science, 2020, 54, 858-881.	4.4	14
42	Material compatibility constraints for make-to-order production planning. Operations Research Letters, 2003, 31, 420-428.	0.7	13
43	Garage Location for an Urban Mass Transit System. Transportation Science, 1984, 18, 56-75.	4.4	12
44	Applying integer programming to AI planning. Knowledge Engineering Review, 2000, 15, 85-100.	2.6	11
45	Threshold reliability of networks with small failure sets. Networks, 1995, 25, 101-115.	2.7	10
46	Models for the design and analysis of a large package sort facility. Networks, 2002, 39, 107-120.	2.7	10
47	Modeling study for evaluation of aeronautical broadband data requirements over satellite networks. IEEE Transactions on Aerospace and Electronic Systems, 2005, 41, 361-370.	4.7	10
48	Resource Allocation Principles for Airspace Flow Control. , 2005, , .		10
49	Resource Allocation in Flow-Constrained Areas with Stochastic Termination Times. Transportation Research Record, 2009, 2106, 90-99.	1.9	10
50	Equity and Strength in Stochastic Integer Programming Models for the Dynamic Single Airport Ground-Holding Problem. Transportation Science, 2020, 54, 944-955.	4.4	10
51	Matchings in connection with ground delay program planning. Networks, 2009, 53, 293-306.	2.7	9
52	Network-based formulations of the quadratic assignment problem. European Journal of Operational Research, 1998, 104, 241-249.	5.7	8
53	Consensus-Building Mechanism for Setting Service Expectations in Air Traffic Flow Management. Transportation Research Record, 2013, 2325, 87-96.	1.9	8
54	Integrated product and process design environment tool for manufacturing T/R modules. Journal of Intelligent Manufacturing, 1998, 9, 9-15.	7.3	6

#	ARTICLE	IF	CITATIONS
55	Fault-Tolerant Virtual Path Layout in ATM Networks. <i>INFORMS Journal on Computing</i> , 2001, 13, 76-94.	1.7	6
56	Title is missing!. <i>Annals of Operations Research</i> , 1997, 72, 151-182.	4.1	5
57	Design of the federal express large package sort facility. <i>Annals of Operations Research</i> , 2006, 144, 133-152.	4.1	5
58	Bounding a Probability Measure Over a Polymatroid with an Application to Transportation Problems. <i>Mathematics of Operations Research</i> , 1994, 19, 112-120.	1.3	4
59	The rate control index for traffic flow. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2001, 2, 55-62.	8.0	4
60	Sparse Monge matrices arising from scheduling problems. <i>Operations Research Letters</i> , 2013, 41, 246-248.	0.7	3
61	Collision course? The North Airfield Safety Study at Los Angeles International Airport (LAX). <i>Transportation Research, Part A: Policy and Practice</i> , 2015, 77, 14-34.	4.2	3
62	Data-Driven Planning for Ground Delay Programs. <i>Transportation Research Record</i> , 2017, 2603, 13-20.	1.9	3
63	Two-path subsets: Efficient counting and applications to performability analysis. <i>Discrete Applied Mathematics</i> , 1998, 85, 25-45.	0.9	2
64	Quantifying the Relationship between Airline Load Factors and Flight Cancellation Trends. <i>Transportation Research Record</i> , 2009, 2106, 38-46.	1.9	2
65	Reliability, covering and balanced matrices. <i>Operations Research Letters</i> , 1995, 17, 1-7.	0.7	1
66	Introduction to the Special Issue on Aviation Operations Research: Commemorating 100 Years of Aviation. <i>Transportation Science</i> , 2003, 37, 366-367.	4.4	1
67	Area Editorsâ€™ Statements. <i>Operations Research</i> , 2006, 54, 5-10.	1.9	1
68	Distribution-free methods for multi-period, single-leg booking control. <i>Journal of Revenue and Pricing Management</i> , 2016, 15, 425-453.	1.1	1
69	Generating and evaluating designs and plans for microwave modules. <i>Artificial Intelligence for Engineering Design, Analysis and Manufacturing: AIEDAM</i> , 2000, 14, 289-304.	1.1	0
70	Data Exploration by Representative Region Selection: Axioms and Convergence. <i>Mathematics of Operations Research</i> , 2021, 46, 970-1007.	1.3	0
71	Air Traffic Management. , 2013, , 25-36.		0