

Cynthia Barnhart

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/8485887/cynthia-barnhart-publications-by-year.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

82

papers

5,116

citations

35

h-index

71

g-index

90

ext. papers

5,810

ext. citations

3

avg, IF

5.55

L-index

#	Paper	IF	Citations
82	A Novel Approach to the Tail Assignment Problem in Airline Planning. <i>Transportation Research Procedia</i> , 2021 , 58, 53-60	2.4	0
81	The Tail Assignment Problem: A Case Study at Vueling Airlines. <i>Transportation Research Procedia</i> , 2021 , 52, 445-452	2.4	
80	Majority judgment over a convex candidate space. <i>Operations Research Letters</i> , 2019 , 47, 317-325	1	0
79	A new binary formulation of the restricted Container Relocation Problem based on a binary encoding of configurations. <i>European Journal of Operational Research</i> , 2018 , 267, 467-477	5.6	32
78	Airline-driven ground delay programs: A benefits assessment. <i>Transportation Research Part C: Emerging Technologies</i> , 2018 , 89, 268-288	8.4	5
77	Yard Crane Scheduling for container storage, retrieval, and relocation. <i>European Journal of Operational Research</i> , 2018 , 271, 288-316	5.6	35
76	The Stochastic Container Relocation Problem. <i>Transportation Science</i> , 2018 , 52, 1035-1058	4.4	17
75	Robust optimization: Lessons learned from aircraft routing. <i>Computers and Operations Research</i> , 2018 , 98, 165-184	4.6	17
74	Integrated Disruption Management and Flight Planning to Trade Off Delays and Fuel Burn. <i>Transportation Science</i> , 2017 , 51, 88-111	4.4	37
73	Integrated Airline Scheduling: Considering Competition Effects and the Entry of the High Speed Rail. <i>Transportation Science</i> , 2017 , 51, 132-154	4.4	21
72	Robust Optimization: Lessons Learned from Aircraft Routing. <i>SSRN Electronic Journal</i> , 2017 ,	1	1
71	Airline-Driven Performance-Based Air Traffic Management: Game Theoretic Models and Multicriteria Evaluation. <i>Transportation Science</i> , 2016 , 50, 180-203	4.4	13
70	Tarmac delay policies: A passenger-centric analysis. <i>Transportation Research, Part A: Policy and Practice</i> , 2016 , 83, 42-62	3.7	2
69	Assessing the viability of enabling a round-trip carsharing system to accept one-way trips: Application to Logan Airport in Boston. <i>Transportation Research Part C: Emerging Technologies</i> , 2015 , 56, 359-372	8.4	44
68	Comparing Optimal Relocation Operations With Simulated Relocation Policies in One-Way Carsharing Systems. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2014 , 15, 1667-1675	6.1	125
67	Modeling Passenger Travel and Delays in the National Air Transportation System. <i>Operations Research</i> , 2014 , 62, 580-601	2.3	43
66	A decomposition approach for commodity pickup and delivery with time-windows under uncertainty. <i>Journal of Scheduling</i> , 2014 , 17, 489-506	1.6	1

65	Robust flight schedules through slack re-allocation. <i>EURO Journal on Transportation and Logistics</i> , 2013 , 2, 277-306	2.4	17
64	Incremental bus service design: combining limited-stop and local bus services. <i>Public Transport</i> , 2013 , 5, 53-78	2.1	42
63	Integrated Flight Scheduling and Fleet Assignment Under Airport Congestion. <i>Transportation Science</i> , 2013 , 47, 477-492	4.4	33
62	Robust airline schedule design in a dynamic scheduling environment. <i>Computers and Operations Research</i> , 2013 , 40, 831-840	4.6	21
61	Setting public service obligations in low-demand air transportation networks: Application to the Azores. <i>Transportation Research, Part A: Policy and Practice</i> , 2013 , 54, 35-48	3.7	11
60	Modeling Airline Frequency Competition for Airport Congestion Mitigation. <i>Transportation Science</i> , 2012 , 46, 512-535	4.4	49
59	Testing the Validity of the MIP Approach for Locating Carsharing Stations in One-way Systems. <i>Procedia, Social and Behavioral Sciences</i> , 2012 , 54, 138-148		35
58	Airline Frequency Competition in Airport Congestion Pricing. <i>Transportation Research Record</i> , 2012 , 2266, 69-77	1.7	5
57	Equitable and Efficient Coordination in Traffic Flow Management. <i>Transportation Science</i> , 2012 , 46, 262-280	4.0	50
56	An assessment of the impact of demand management strategies for efficient allocation of airport capacity. <i>International Journal of Revenue Management</i> , 2012 , 6, 5	0.2	17
55	Demand and capacity management in air transportation. <i>EURO Journal on Transportation and Logistics</i> , 2012 , 1, 135-155	2.4	52
54	Evaluating Air Traffic Flow Management in a Collaborative Decision-Making Environment. <i>Transportation Research Record</i> , 2011 , 2206, 10-18	1.7	5
53	Strong activity rules for iterative combinatorial auctions. <i>Computers and Operations Research</i> , 2010 , 37, 1271-1284	4.6	16
52	Dynamic Airline Scheduling. <i>Transportation Science</i> , 2009 , 43, 336-354	4.4	35
51	Airline Fleet Assignment with Enhanced Revenue Modeling. <i>Operations Research</i> , 2009 , 57, 231-244	2.3	48
50	An integer programming approach to support the US Air Force's air mobility network. <i>Computers and Operations Research</i> , 2008 , 35, 1771-1788	4.6	5
49	Chapter 1 Air Transportation: Irregular Operations and Control. <i>Handbooks in Operations Research and Management Science</i> , 2007 , 14, 1-67		81
48	Flight schedule design for a charter airline. <i>Computers and Operations Research</i> , 2007 , 34, 1516-1531	4.6	9

47	Planning for Robust Airline Operations: Optimizing Aircraft Routings and Flight Departure Times to Minimize Passenger Disruptions. <i>Transportation Science</i> , 2006 , 40, 15-28	4.4	164
46	Flight operations recovery: New approaches considering passenger recovery. <i>Journal of Scheduling</i> , 2006 , 9, 279-298	1.6	128
45	An Analysis of Passenger Delays Using Flight Operations and Passenger Booking Data. <i>Air Traffic Control Quarterly</i> , 2005 , 13, 1-27		38
44	Logistics Service Network Design for Time-Critical Delivery. <i>Lecture Notes in Computer Science</i> , 2005 , 86-105	0.9	4
43	UPS Optimizes Its Air Network. <i>Interfaces</i> , 2004 , 34, 15-25	0.7	30
42	Airline Schedule Planning: Integrated Models and Algorithms for Schedule Design and Fleet Assignment. <i>Transportation Science</i> , 2004 , 38, 19-32	4.4	154
41	Airline Schedule Planning: Accomplishments and Opportunities. <i>Manufacturing and Service Operations Management</i> , 2004 , 6, 3-22	4.6	62
40	Applications of Operations Research in the Air Transport Industry. <i>Transportation Science</i> , 2003 , 37, 368-391	4.4	172
39	Improving Crew Scheduling by Incorporating Key Maintenance Routing Decisions. <i>Operations Research</i> , 2003 , 51, 387-396	2.3	100
38	Airline Crew Scheduling 2003 , 517-560		64
37	Network Design for Express Shipment Delivery. <i>Computational Optimization and Applications</i> , 2002 , 21, 239-262	1.4	47
36	Composite Variable Formulations for Express Shipment Service Network Design. <i>Transportation Science</i> , 2002 , 36, 1-20	4.4	98
35	Itinerary-Based Airline Fleet Assignment. <i>Transportation Science</i> , 2002 , 36, 199-217	4.4	106
34	Practice Abstract. <i>Interfaces</i> , 2001 , 31, 66-68	0.7	1
33	Railroad Blocking: A Network Design Application. <i>Operations Research</i> , 2000 , 48, 603-614	2.3	99
32	Airline Fleet Assignment with Time Windows. <i>Transportation Science</i> , 2000 , 34, 1-20	4.4	112
31	Using Branch-and-Price-and-Cut to Solve Origin-Destination Integer Multicommodity Flow Problems. <i>Operations Research</i> , 2000 , 48, 318-326	2.3	202
30	Multimodal Express Package Delivery: A Service Network Design Application. <i>Transportation Science</i> , 1999 , 33, 391-407	4.4	92

29	Transportation Service Network Design: Models and Algorithms. <i>Lecture Notes in Economics and Mathematical Systems</i> , 1999 , 259-283	0.4	13
28	Crew Scheduling. <i>Profiles in Operations Research</i> , 1999 , 493-521	1	15
27	The real-time deadheading problem in transit operations control. <i>Transportation Research Part B: Methodological</i> , 1998 , 32, 77-100	7.2	105
26	Branch-and-Price: Column Generation for Solving Huge Integer Programs. <i>Operations Research</i> , 1998 , 46, 316-329	2.3	1256
25	Constructing Railroad Blocking Plans to Minimize Handling Costs. <i>Transportation Science</i> , 1998 , 32, 330-345	4.4	84
24	Flight String Models for Aircraft Fleeting and Routing. <i>Transportation Science</i> , 1998 , 32, 208-220	4.4	209
23	An Approximate Model and Solution Approach for the Long-Haul Crew Pairing Problem. <i>Transportation Science</i> , 1998 , 32, 221-231	4.4	31
22	Integrated Airline Schedule Planning. <i>Profiles in Operations Research</i> , 1998 , 384-403	1	18
21	Airline Crew Scheduling: A New Formulation and Decomposition Algorithm. <i>Operations Research</i> , 1997 , 45, 188-200	2.3	113
20	Multimodal express shipment service design: Models and algorithms. <i>Computers and Industrial Engineering</i> , 1997 , 33, 685-688	6.4	6
19	Air Network Design for Express Shipment Service. <i>Operations Research</i> , 1996 , 44, 852-863	2.3	84
18	Integer multicommodity flow problems. <i>Lecture Notes in Computer Science</i> , 1996 , 58-71	0.9	9
17	The fleet assignment problem: Solving a large-scale integer program. <i>Mathematical Programming</i> , 1995 , 70, 211-232	2.1	221
16	Routing models and solution procedures for regional less-than-truckload operations. <i>Annals of Operations Research</i> , 1995 , 61, 67-90	3.2	7
15	Deadhead Selection for the Long-Haul Crew Pairing Problem. <i>Operations Research</i> , 1995 , 43, 491-499	2.3	43
14	Solving binary cutting stock problems by column generation and branch-and-bound. <i>Computational Optimization and Applications</i> , 1994 , 3, 111-130	1.4	139
13	A column generation and partitioning approach for multi-commodity flow problems. <i>Telecommunication Systems</i> , 1994 , 3, 239-258	2.3	37
12	Formulating a Mixed Integer Programming Problem to Improve Solvability. <i>Operations Research</i> , 1993 , 41, 1013-1019	2.3	19

11	A Network-Based Primal-Dual Heuristic for the Solution of Multicommodity Network Flow Problems. <i>Transportation Science</i> , 1993 , 27, 102-117	4.4	33
10	Dual-ascent methods for large-scale multicommodity flow problems. <i>Naval Research Logistics</i> , 1993 , 40, 305-324	1.5	29
9	XNET: Extended Traffic Assignment Model. <i>Journal of Transportation Engineering</i> , 1987 , 113, 450-462		2
8	Information Technology in Airline Operations, Distribution and Passenger Processing441-466		1
7	Overview of Airline Economics, Markets and Demand47-72		14
6	The Airline Planning Process153-181		11
5	Airline Schedule Optimization183-211		5
4	Irregular Operations: Schedule Recovery and Robustness253-274		7
3	Applying Majority Judgment over a Polyhedral Candidate Space. <i>SSRN Electronic Journal</i> ,	1	3
2	Choice-Based Airline Schedule Design and Fleet Assignment: A Decomposition Approach. <i>SSRN Electronic Journal</i> ,	1	1
1	Airline-Driven Ground Delay Programs: A Benefits Assessment. <i>SSRN Electronic Journal</i> ,	1	1