Ellis L Johnson

List of Publications by Year
in descending order

81 papers	6,962 citations	116194 36 h-index	81351 76 g-index
82 all docs	82 docs citations	82 times ranked	3157 citing authors

#	Article	IF	Citations
1	Stochastic Runway Scheduling. Transportation Science, 2018, 52, 917-940.	2.6	17
2	Cyclic group blocking polyhedra. Mathematical Programming, 2013, 138, 273-307.	1.6	5
3	Binary group facets with complete support and non-binary coefficients. Operations Research Letters, 2013, 41, 679-684.	0.5	3
4	An Optimization Approach to Airline Integrated Recovery. Transportation Science, 2012, 46, 482-500.	2.6	96
5	Ralph E. Gomory. Profiles in Operations Research, 2011, , 693-705.	0.3	0
6	On a New Rotation Tour Network Model for Aircraft Maintenance Routing Problem. Transportation Science, 2011, 45, 109-120.	2.6	54
7	Scheduling of runway operations for reduced environmental impact. Transportation Research, Part D: Transport and Environment, 2011, 16, 110-120.	3.2	38
8	A least-squares minimum-cost network flow algorithm. Annals of Operations Research, 2011, 186, 119-140.	2.6	1
9	Primal-dual simplex method for shooting. Electronic Notes in Discrete Mathematics, 2010, 36, 719-726.	0.4	1
10	Optimization of R&D project portfolios under endogenous uncertainty. European Journal of Operational Research, 2010, 207, 420-433.	3.5	106
11	Near Real-Time Fuel-Optimal En Route Conflict Resolution. IEEE Transactions on Intelligent Transportation Systems, 2010, 11, 826-837.	4.7	48
12	A Polyhedral Study of the Mixed Integer Cut. Lecture Notes in Computer Science, 2010, , 124-134.	1.0	1
13	Polarity and the complexity of the shooting experiment. Discrete Optimization, 2008, 5, 541-549.	0.6	3
14	Incorporating Network Flow Effects into the Airline Fleet Assignment Process. Transportation Science, 2008, 42, 514-529.	2.6	36
15	Production planning with flexible customization using a branch-price-cut method. IIE Transactions, 2008, 40, 1198-1210.	2.1	11
16	Operational airline reserve crew planning. Journal of Scheduling, 2006, 9, 203-221.	1.3	14
17	Robust Airline Fleet Assignment: Imposing Station Purity Using Station Decomposition. Transportation Science, 2006, 40, 497-516.	2.6	61
18	Logical Processing for Integer Programming. Annals of Operations Research, 2005, 140, 263-304.	2.6	2

#	Article	IF	Citations
19	Airline Crew Scheduling: State-of-the-Art. Annals of Operations Research, 2005, 140, 305-337.	2.6	125
20	Airline Crew Scheduling Under Uncertainty. Transportation Science, 2005, 39, 340-348.	2.6	86
21	A Multiple Pairs Shortest Path Algorithm. Transportation Science, 2005, 39, 465-476.	2.6	17
22	Long-Range Reserve Crew Manpower Planning. Management Science, 2004, 50, 724-739.	2.4	12
23	A Robust Fleet-Assignment Model with Hub Isolation and Short Cycles. Transportation Science, 2004, 38, 357-368.	2.6	93
24	A Three-Phase Approach to Solving the Bidline Problem. Annals of Operations Research, 2004, 127, 283-308.	2.6	10
25	An approach to integer programming. Mathematical Programming, 2003, 96, 181-181.	1.6	1
26	Corner Polyhedra and their connection with cutting planes. Mathematical Programming, 2003, 96, 321-339.	1.6	60
27	T-space and cutting planes. Mathematical Programming, 2003, 96, 341-375.	1.6	80
28	Cyclic group and knapsack facets. Mathematical Programming, 2003, 96, 377-408.	1.6	45
29	Airline Crew Scheduling. , 2003, , 517-560.		87
30	Rerouting Aircraft for Airline Recovery. Transportation Science, 2003, 37, 408-421.	2.6	139
31	Delta Optimizes Continuing-Qualification-Training Schedules for Pilots. Interfaces, 2003, 33, 57-70.	1.6	8
32	Airline Crew Scheduling with Time Windows and Plane-Count Constraints. Transportation Science, 2002, 36, 337-348.	2.6	97
33	A Stochastic Model of Airline Operations. Transportation Science, 2002, 36, 357-377.	2.6	92
34	Solving Large Airline Crew Scheduling Problems: Random Pairing Generation and Strong Branching. Computational Optimization and Applications, 2001, 20, 73-91.	0.9	65
35	Airline Crew Scheduling with Regularity. Transportation Science, 2001, 35, 359-374.	2.6	29
36	A parallel primal–dual simplex algorithm. Operations Research Letters, 2000, 27, 47-55.	0.5	19

#	Article	IF	Citations
37	Progress in Linear Programming-Based Algorithms for Integer Programming: An Exposition. INFORMS Journal on Computing, 2000, 12, 2-23.	1.0	138
38	Chinese Postman and Euler Tour Problems in Bi-Directed Graphs. , 2000, , 171-196.		1
39	Airline Crew Recovery. Transportation Science, 2000, 34, 337-348.	2.6	109
40	Computational results with a primal–dual subproblem simplex method. Operations Research Letters, 1999, 25, 149-157.	0.5	22
41	Crew Scheduling. Profiles in Operations Research, 1999, , 493-521.	0.3	17
42	Branch-and-Price: Column Generation for Solving Huge Integer Programs. Operations Research, 1998, 46, 316-329.	1.2	1,558
43	Flight String Models for Aircraft Fleeting and Routing. Transportation Science, 1998, 32, 208-220.	2.6	256
44	An Optimization Based Heuristic for Political Districting. Management Science, 1998, 44, 1100-1114.	2.4	196
45	Airline Crew Scheduling: A New Formulation and Decomposition Algorithm. Operations Research, 1997, 45, 188-200.	1.2	137
46	Solving large scale crew scheduling problems. European Journal of Operational Research, 1997, 97, 260-268.	3.5	53
47	The fleet assignment problem: Solving a large-scale integer program. Mathematical Programming, 1995, 70, 211-232.	1.6	298
48	Deadhead Selection for the Long-Haul Crew Pairing Problem. Operations Research, 1995, 43, 491-499.	1.2	51
49	Solving binary cutting stock problems by column generation and branch-and-bound. Computational Optimization and Applications, 1994, 3, 111-130.	0.9	170
50	A column generation and partitioning approach for multi-commodity flow problems. Telecommunication Systems, 1994, 3, 239-258.	1.6	49
51	Some properties of the fleet assignment problem. Operations Research Letters, 1994, 15, 59-71.	0.5	42
52	On binary group problems having the Fulkerson property. Lecture Notes in Mathematics, 1989, , 57-112.	0.1	2
53	Modeling and Strong Linear Programs for Mixed Integer Programming. , 1989, , 1-43.		30
54	Polyhedra of regularp-nary group problems. Mathematical Programming, 1989, 43, 1-29.	1.6	2

#	ARTICLE	IF	CITATIONS
55	Four problems on graphs with excluded minors. Mathematical Programming, 1989, 45, 311-330.	1.6	8
56	On Four Problems in Graph Theory. SIAM Journal on Algebraic and Discrete Methods, 1987, 8, 163-185.	0.8	4
57	The group problem and integer programming duality. IBM Journal of Research and Development, 1987, 31, 206-212.	3.2	1
58	Dual row modules and polyhedra of blocking group problems. Mathematical Programming, 1987, 38, 229-270.	1.6	2
59	Binary group and Chinese postman polyhedra. Mathematical Programming, 1986, 34, 1-33.	1.6	17
60	Solving 0-1 Integer Programming Problems Arising from Large Scale Planning Models. Operations Research, 1985, 33, 803-819.	1.2	106
61	Mappings and Facets for Nonabelian Group Problems. SIAM Journal on Algebraic and Discrete Methods, 1985, 6, 171-188.	0.8	1
62	Solving Large-Scale Zero-One Linear Programming Problems. Operations Research, 1983, 31, 803-834.	1.2	578
63	Duality and Pricing in Multiple Right-Hand Choice Linear Programming Problems. Mathematics of Operations Research, 1982, 7, 545-556.	0.8	8
64	A characterization of minimal valid inequalities for mixed integer programs. Operations Research Letters, 1982, 1, 63-66.	0.5	7
65	Some Results on Polyhedra of Semigroup Problems. SIAM Journal on Algebraic and Discrete Methods, 1981, 2, 244-258.	0.8	7
66	On the Generality of the Subadditive Characterization of Facets. Mathematics of Operations Research, 1981, 6, 101-112.	0.8	9
67	A note of the knapsack problem with special ordered sets. Operations Research Letters, 1981, 1, 18-22.	0.5	63
68	Subadditive lifting methods for partitioning and knapsack problems. Journal of Algorithms, 1980, 1, 75-96.	0.9	9
69	Experiments in integer programming. Discrete Applied Mathematics, 1980, 2, 39-55.	0.5	20
70	On the Group Problem and a Subadditive Approach to Integer Programming. Annals of Discrete Mathematics, 1979, 5, 97-112.	1.4	20
71	On a Production Allocation and Distribution Problem. Management Science, 1978, 24, 1622-1630.	2.4	30
72	Support functions, blocking pairs, and anti-blocking pairs. Mathematical Programming Studies, 1978, , 167-196.	0.8	7

#	Article	IF	Citations
73	A Subadditive Approach to Solve Linear Integer Programs. Annals of Discrete Mathematics, 1977, 1, 117-143.	1.4	36
74	On the group problem for mixed integer programming. Mathematical Programming Studies, 1974, , 137-179.	0.8	94
75	A subadditive approach to the group problem of integer programming. Mathematical Programming Studies, 1974, , 51-71.	0.8	10
76	Matching, Euler tours and the Chinese postman. Mathematical Programming, 1973, 5, 88-124.	1.6	832
77	On shortest paths and sorting. , 1972, , .		23
78	Some continuous functions related to corner polyhedra. Mathematical Programming, 1972, 3-3, 23-85.	1.6	189
79	Some continuous functions related to corner polyhedra, II. Mathematical Programming, 1972, 3-3, 359-389.	1.6	104
80	Computation and Structure of Optimal Reset Policies. Journal of the American Statistical Association, 1967, 62, 1462-1487.	1.8	10
81	Optimality and Computation of (Ïƒ,S) Policies in the Multi-Item Infinite Horizon Inventory Problem. Management Science, 1967, 13, 475-491.	2.4	50