Jonathan F Bard

List of Publications by Year
in descending order

85 papers	2,595 citations	172386 29 h-index	214721 47 g-index
92 all docs	92 docs citations	92 times ranked	1625 citing authors

#	Article	IF	Citations
1	The integrated production–inventory–distribution–routing problem. Journal of Scheduling, 2009, 12, 257-280.	1.3	139
2	A Grasp for Aircraft Routing in Response to Groundings and Delays. Journal of Combinatorial Optimization, 1997, 1, 211-228.	0.8	124
3	Staff scheduling at the United States Postal Service. Computers and Operations Research, 2003, 30, 745-771.	2.4	117
4	An algorithm for the discrete bilevel programming problem. Naval Research Logistics, 1992, 39, 419-435.	1.4	115
5	A Heuristic for Minimizing the Number of Tool Switches on a Flexible Machine. IIE Transactions, 1988, 20, 382-391.	2.1	108
6	Flexible shift scheduling of physicians. Health Care Management Science, 2009, 12, 285-305.	1.5	96
7	Hospital-wide reactive scheduling of nurses with preference considerations. IIE Transactions, 2005, 37, 589-608.	2.1	83
8	A GRASP™ for a difficult single machine scheduling problem. Computers and Operations Research, 1991, 18, 635-643.	2.4	77
9	Cyclic preference scheduling of nurses using a Lagrangian-based heuristic. Journal of Scheduling, 2007, 10, 5-23.	1.3	73
10	Assembly line balancing with parallel workstations and dead time. International Journal of Production Research, 1989, 27, 1005-1018.	4.9	69
11	Optimizing aircraft routings in response to groundings and delays. IIE Transactions, 2001, 33, 931-947.	2.1	63
12	Short-Term Nurse Scheduling in Response to Daily Fluctuations in Supply and Demand. Health Care Management Science, 2005, 8, 315-324.	1.5	63
13	An algorithm for the mixed-integer nonlinear bilevel programming problem. Annals of Operations Research, 1992, 34, 149-162.	2.6	59
14	Midterm scheduling of physicians with flexible shifts using branch and price. IIE Transactions, 2010, 43, 84-109.	2.1	59
15	A branch and cut algorithm for the VRP with satellite facilities. IIE Transactions, 1998, 30, 821-834.	2.1	58
16	Workforce planning at USPS mail processing and distribution centers using stochastic optimization. Annals of Operations Research, 2007, 155, 51-78.	2.6	55
17	An Algorithm for the Manufacturing Equipment Selection Problem. IIE Transactions, 1991, 23, 83-92.	2.1	53
18	A reactive GRASP with path relinking for capacitated clustering. Journal of Heuristics, 2011, 17, 119-152.	1.1	52

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19	A column generation-based approach to solve the preference scheduling problem for nurses with downgrading. Socio-Economic Planning Sciences, 2005, 39, 193-213.	2.5	49
20	A branch-and-bound algorithm for permutation flow shops with sequence-dependent setup times. IIE Transactions, 1999, 31, 721-731.	2.1	48
21	Cyclic preference scheduling for nurses using branch and price. Naval Research Logistics, 2007, 54, 200-220.	1.4	48
22	An Enhanced TSP-Based Heuristic for Makespan Minimization in a Flow Shop with Setup Times. Journal of Heuristics, 1999, 5, 53-70.	1.1	45
23	The therapist routing and scheduling problem. IIE Transactions, 2012, 44, 868-893.	2.1	42
24	A sequential GRASP for the therapist routing and scheduling problem. Journal of Scheduling, 2014, 17, 109-133.	1.3	39
25	A two-stage stochastic programming approach for project planning with uncertain activity durations. Journal of Scheduling, 2007, 10, 167-180.	1.3	38
26	Staff scheduling in high volume service facilities with downgrading. IIE Transactions, 2004, 36, 985-997.	2.1	37
27	A production scheduling heuristic for an electronics manufacturer with sequence-dependent setup costs. European Journal of Operational Research, 2008, 187, 1100-1114.	3.5	37
28	The traveling therapist scheduling problem. IIE Transactions, 2014, 46, 683-706.	2.1	35
29	A branch-and-price algorithm for parallel machine scheduling with time windows and job priorities. Naval Research Logistics, 2006, 53, 24-44.	1.4	31
30	Flexible weekly tour scheduling for postal service workers using a branch and price. Journal of Scheduling, 2013, 16, 129-149.	1.3	30
31	Workforce Design with Movement Restrictions Between Workstation Groups. Manufacturing and Service Operations Management, 2008, 10, 24-42.	2.3	29
32	Arc Reduction and Path Preference in Stochastic Acyclic Networks. Management Science, 1991, 37, 198-215.	2.4	26
33	A GRASP for scheduling printed wiring board assembly. IIE Transactions, 1996, 28, 155-165.	2.1	25
34	The Flow Shop Scheduling Polyhedron with Setup Times. Journal of Combinatorial Optimization, 2003, 7, 291-318.	0.8	25
35	Daily scheduling of nurses in operating suites. IIE Transactions on Healthcare Systems Engineering, 2011, 1, 232-246.	0.8	25
36	Coordinated Scheduling for a Multi-server Network in Outpatient Pre-operative Care. Production and Operations Management, 2018, 27, 458-479.	2.1	24

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37	A COMPARISON OF THE ANALYTIC HIERARCHY PROCESS WITH MULTIATTRIBUTE UTILITY THEORY: A CASE STUDY. IIE Transactions, 1992, 24, 111-121.	2.1	23
38	Improving patient flow at a family health clinic. Health Care Management Science, 2016, 19, 170-191.	1.5	23
39	Selecting the appropriate input data set when configuring a permanent workforce. Computers and Industrial Engineering, 2004, 47, 371-389.	3.4	21
40	The task assignment problem for unrestricted movement between workstation groups. Journal of Scheduling, 2006, 9, 315-341.	1.3	21
41	Scheduling Back-End Operations in Semiconductor Manufacturing. IEEE Transactions on Semiconductor Manufacturing, 2010, 23, 210-220.	1.4	21
42	Nurse scheduling with lunch break assignments in operating suites. Operations Research for Health Care, 2016, 10, 35-48.	0.8	21
43	Monthly clinic assignments for internal medicine housestaff. IIE Transactions on Healthcare Systems Engineering, 2013, 3, 207-239.	0.8	20
44	Designing and scheduling a multi-disciplinary integrated practice unit for patient-centred care. Health Systems, 2020, 9, 293-316.	0.9	19
45	Incremental changes in the workforce to accommodate changes in demand. Health Care Management Science, 2006, 9, 71-85.	1.5	18
46	Annual block scheduling for family medicine residency programs with continuity clinic considerations. IIE Transactions, 2016, 48, 797-811.	2.1	18
47	An exact algorithm for designing optimal districts in the collection of waste electric and electronic equipment through an improved reformulation. European Journal of Operational Research, 2019, 276, 259-271.	3.5	17
48	Integrating optimisation and simulation approaches for daily scheduling of assembly and test operations. International Journal of Production Research, 2015, 53, 2617-2632.	4.9	16
49	Analyzing economies of scale and scope in hospitals by use of case mix planning. Health Care Management Science, 2020, 23, 80-101.	1.5	15
50	Constructing block schedules for internal medicine residents. IISE Transactions on Healthcare Systems Engineering, 2017, 7, 1-14.	1.2	14
51	A Simulation Analysis of Advanced Concepts for Semi-automated Mail Processing. Journal of the Operational Research Society, 1991, 42, 1071-1086.	2.1	12
52	Weekly scheduling in the service industry: an application to mail processing and distribution centers. IIE Transactions, 2005, 37, 379-396.	2.1	12
53	Equipment scheduling at mail processing and distribution centers. IIE Transactions, 2005, 37, 175-187.	2.1	12
54	Benders decomposition and an IP-based heuristic for selecting IMRT treatment beam angles. European Journal of Operational Research, 2016, 251, 715-726.	3.5	12

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55	A stochastic optimization approach to shift scheduling with breaks adjustments. Computers and Operations Research, 2019, 107, 127-139.	2.4	12
56	Daily scheduling of multi-pass lots at assembly and test facilities. International Journal of Production Research, 2013, 51, 7047-7070.	4.9	11
57	Extended open shop scheduling with resource constraints: Appointment scheduling for integrated practice units. IISE Transactions, 2019, 51, 1037-1060.	1.6	11
58	DESIGN OF SEMI-AUTOMATED MAIL PROCESSING FACILITIES. IIE Transactions, 1993, 25, 88-101.	2.1	10
59	Improving performance of dispatch rules for daily scheduling of assembly and test operations. Computers and Industrial Engineering, 2015, 90, 86-106.	3.4	10
60	Appointment scheduling at a multidisciplinary outpatient clinic using stochastic programming. Naval Research Logistics, 2021, 68, 134-155.	1.4	10
61	Optimizing Aircraft Routings in response to Groundings and Delays. IIE Transactions, 2001, 33, 931-947.	2.1	9
62	A patient-centered surgical home to improve outpatient surgical processes of care and outcomes. IIE Transactions on Healthcare Systems Engineering, 2014, 4, 119-134.	0.8	9
63	A GRASP for simultaneously assigning and sequencing product families on flexible assembly lines. Annals of Operations Research, 2013, 203, 295-323.	2.6	8
64	An assignment-sequencing methodology for scheduling assembly and test operations with multi-pass requirements. IIE Transactions, 2015, 47, 153-172.	2.1	8
65	The flexible break assignment problem for large tour scheduling problems with an application to airport ground handlers. Journal of Scheduling, 2020, 23, 177-209.	1.3	8
66	A comparison of Box-Jenkins time series models with autoregressive processes. IEEE Transactions on Systems, Man, and Cybernetics, 1985, SMC-15, 252-259.	0.9	6
67	Engineering Optimization: Theory and Practice, Third Edition. IIE Transactions, 1997, 29, 802-803.	2.1	6
68	Flexible cyclic rostering in the service industry. IIE Transactions, 2016, 48, 1139-1155.	2.1	6
69	Controlling work in process during semiconductor assembly and test operations. International Journal of Production Research, 2017, 55, 7251-7275.	4.9	6
70	A performance analysis of dispatch rules for semiconductor assembly & test operations. Journal of Simulation, 2019, 13, 163-180.	1.0	6
71	Hierarchy machine set-up for multi-pass lot scheduling at semiconductor assembly and test facilities. International Journal of Production Research, 2019, 57, 4351-4370.	4.9	5
72	Workforce capacity planning with hierarchical skills, long-term training, and random resignations. International Journal of Production Research, 2022, 60, 783-807.	4.9	5

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73	Designing Telecommunications Networks for the Reseller Market. Management Science, 1991, 37, 1125-1146.	2.4	3
74	Title is missing!. Flexible Services and Manufacturing Journal, 1997, 9, 251-272.	0.4	3
75	A branch and cut algorithm for the VRP with satellite facilities. IIE Transactions, 1998, 30, 821-834.	2.1	3
76	Internal mail transport at processing & distribution centers. IISE Transactions, 2017, 49, 285-303.	1.6	3
77	The impact of a patient-centered surgical home implementation on preoperative processes in outpatient surgery. IISE Transactions on Healthcare Systems Engineering, 2018, 8, 155-166.	1.2	3
78	An investigation of shift and break flexibility with real-time break assignments using a rolling horizon approach. Flexible Services and Manufacturing Journal, 2019, 31, 174-211.	1.9	3
79	Real-time decision support for assembly and test operations in semiconductor manufacturing. IIE Transactions, 2012, 44, 1083-1099.	2.1	2
80	USING SIMULATION TO DESIGN A WORKLIFE INTEGRATED PRACTICE UNIT. , 2018, , .		2
81	A simulation analysis of a patient-centered surgical home to improve outpatient surgical processes of care and outcomes. , 2013, , .		1
82	Offering transportation services to economically disadvantaged patients at a family health center: a case study. Health Systems, 2022, 11, 251-275.	0.9	1
83	Incorporating learning-by-doing into mixed complementarity equilibrium models. Computers and Industrial Engineering, 2021, 159, 107472.	3.4	1
84	Mathematical Programming for Industrial Engineers. IIE Transactions, 1997, 29, 800-801.	2.1	0
85	A branch-and-bound algorithm for permutation flow shops with sequence-dependent setup times. IIE Transactions, 1999, 31, 721-731.	2.1	0