

# Jonathan F Bard

## List of Publications by Year in descending order

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Version: 2024-02-01

85  
papers

2,595  
citations

196777

29  
h-index

242451

47  
g-index

92  
all docs

92  
docs citations

92  
times ranked

1849  
citing authors

#	ARTICLE	IF	CITATIONS
1	Offering transportation services to economically disadvantaged patients at a family health center: a case study. <i>Health Systems</i> , 2022, 11, 251-275.	0.9	1
2	Workforce capacity planning with hierarchical skills, long-term training, and random resignations. <i>International Journal of Production Research</i> , 2022, 60, 783-807.	4.9	5
3	Appointment scheduling at a multidisciplinary outpatient clinic using stochastic programming. <i>Naval Research Logistics</i> , 2021, 68, 134-155.	1.4	10
4	Incorporating learning-by-doing into mixed complementarity equilibrium models. <i>Computers and Industrial Engineering</i> , 2021, 159, 107472.	3.4	1
5	Designing and scheduling a multi-disciplinary integrated practice unit for patient-centred care. <i>Health Systems</i> , 2020, 9, 293-316.	0.9	19
6	Analyzing economies of scale and scope in hospitals by use of case mix planning. <i>Health Care Management Science</i> , 2020, 23, 80-101.	1.5	15
7	The flexible break assignment problem for large tour scheduling problems with an application to airport ground handlers. <i>Journal of Scheduling</i> , 2020, 23, 177-209.	1.3	8
8	A stochastic optimization approach to shift scheduling with breaks adjustments. <i>Computers and Operations Research</i> , 2019, 107, 127-139.	2.4	12
9	An exact algorithm for designing optimal districts in the collection of waste electric and electronic equipment through an improved reformulation. <i>European Journal of Operational Research</i> , 2019, 276, 259-271.	3.5	17
10	Extended open shop scheduling with resource constraints: Appointment scheduling for integrated practice units. <i>IIE Transactions</i> , 2019, 51, 1037-1060.	1.6	11
11	Hierarchy machine set-up for multi-pass lot scheduling at semiconductor assembly and test facilities. <i>International Journal of Production Research</i> , 2019, 57, 4351-4370.	4.9	5
12	An investigation of shift and break flexibility with real-time break assignments using a rolling horizon approach. <i>Flexible Services and Manufacturing Journal</i> , 2019, 31, 174-211.	1.9	3
13	A performance analysis of dispatch rules for semiconductor assembly & test operations. <i>Journal of Simulation</i> , 2019, 13, 163-180.	1.0	6
14	The impact of a patient-centered surgical home implementation on preoperative processes in outpatient surgery. <i>IIE Transactions on Healthcare Systems Engineering</i> , 2018, 8, 155-166.	1.2	3
15	Coordinated Scheduling for a Multi-server Network in Outpatient Preoperative Care. <i>Production and Operations Management</i> , 2018, 27, 458-479.	2.1	24
16	USING SIMULATION TO DESIGN A WORKLIFE INTEGRATED PRACTICE UNIT. , 2018, , .		2
17	Constructing block schedules for internal medicine residents. <i>IIE Transactions on Healthcare Systems Engineering</i> , 2017, 7, 1-14.	1.2	14
18	Controlling work in process during semiconductor assembly and test operations. <i>International Journal of Production Research</i> , 2017, 55, 7251-7275.	4.9	6

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19	Internal mail transport at processing & distribution centers. IIE Transactions, 2017, 49, 285-303.	1.6	3
20	Nurse scheduling with lunch break assignments in operating suites. Operations Research for Health Care, 2016, 10, 35-48.	0.8	21
21	Flexible cyclic rostering in the service industry. IIE Transactions, 2016, 48, 1139-1155.	2.1	6
22	Annual block scheduling for family medicine residency programs with continuity clinic considerations. IIE Transactions, 2016, 48, 797-811.	2.1	18
23	Improving patient flow at a family health clinic. Health Care Management Science, 2016, 19, 170-191.	1.5	23
24	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
25	An assignment-sequencing methodology for scheduling assembly and test operations with multi-pass requirements. IIE Transactions, 2015, 47, 153-172.	2.1	8
26	Improving performance of dispatch rules for daily scheduling of assembly and test operations. Computers and Industrial Engineering, 2015, 90, 86-106.	3.4	10
27	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
28	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
29	A sequential GRASP for the therapist routing and scheduling problem. Journal of Scheduling, 2014, 17, 109-133.	1.3	39
30	The traveling therapist scheduling problem. IIE Transactions, 2014, 46, 683-706.	2.1	35
31	Flexible weekly tour scheduling for postal service workers using a branch and price. Journal of Scheduling, 2013, 16, 129-149.	1.3	30
32	A simulation analysis of a patient-centered surgical home to improve outpatient surgical processes of care and outcomes. , 2013, , .		1
33	A GRASP for simultaneously assigning and sequencing product families on flexible assembly lines. Annals of Operations Research, 2013, 203, 295-323.	2.6	8
34	Daily scheduling of multi-pass lots at assembly and test facilities. International Journal of Production Research, 2013, 51, 7047-7070.	4.9	11
35	Monthly clinic assignments for internal medicine housestaff. IIE Transactions on Healthcare Systems Engineering, 2013, 3, 207-239.	0.8	20
36	Real-time decision support for assembly and test operations in semiconductor manufacturing. IIE Transactions, 2012, 44, 1083-1099.	2.1	2

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37	The therapist routing and scheduling problem. IIE Transactions, 2012, 44, 868-893.	2.1	42
38	Daily scheduling of nurses in operating suites. IIE Transactions on Healthcare Systems Engineering, 2011, 1, 232-246.	0.8	25
39	A reactive GRASP with path relinking for capacitated clustering. Journal of Heuristics, 2011, 17, 119-152.	1.1	52
40	Midterm scheduling of physicians with flexible shifts using branch and price. IIE Transactions, 2010, 43, 84-109.	2.1	59
41	Scheduling Back-End Operations in Semiconductor Manufacturing. IEEE Transactions on Semiconductor Manufacturing, 2010, 23, 210-220.	1.4	21
42	Flexible shift scheduling of physicians. Health Care Management Science, 2009, 12, 285-305.	1.5	96
43	The integrated productionâ€“inventoryâ€“distributionâ€“routing problem. Journal of Scheduling, 2009, 12, 257-280.	1.3	139
44	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
45	Workforce Design with Movement Restrictions Between Workstation Groups. Manufacturing and Service Operations Management, 2008, 10, 24-42.	2.3	29
46	Cyclic preference scheduling for nurses using branch and price. Naval Research Logistics, 2007, 54, 200-220.	1.4	48
47	Cyclic preference scheduling of nurses using a Lagrangian-based heuristic. Journal of Scheduling, 2007, 10, 5-23.	1.3	73
48	A two-stage stochastic programming approach for project planning with uncertain activity durations. Journal of Scheduling, 2007, 10, 167-180.	1.3	38
49	Workforce planning at USPS mail processing and distribution centers using stochastic optimization. Annals of Operations Research, 2007, 155, 51-78.	2.6	55
50	Incremental changes in the workforce to accommodate changes in demand. Health Care Management Science, 2006, 9, 71-85.	1.5	18
51	The task assignment problem for unrestricted movement between workstation groups. Journal of Scheduling, 2006, 9, 315-341.	1.3	21
52	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
53	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
54	Short-Term Nurse Scheduling in Response to Daily Fluctuations in Supply and Demand. Health Care Management Science, 2005, 8, 315-324.	1.5	63

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55	Weekly scheduling in the service industry: an application to mail processing and distribution centers. IIE Transactions, 2005, 37, 379-396.	2.1	12
56	Equipment scheduling at mail processing and distribution centers. IIE Transactions, 2005, 37, 175-187.	2.1	12
57	Hospital-wide reactive scheduling of nurses with preference considerations. IIE Transactions, 2005, 37, 589-608.	2.1	83
58	Selecting the appropriate input data set when configuring a permanent workforce. Computers and Industrial Engineering, 2004, 47, 371-389.	3.4	21
59	Staff scheduling in high volume service facilities with downgrading. IIE Transactions, 2004, 36, 985-997.	2.1	37
60	The Flow Shop Scheduling Polyhedron with Setup Times. Journal of Combinatorial Optimization, 2003, 7, 291-318.	0.8	25
61	Staff scheduling at the United States Postal Service. Computers and Operations Research, 2003, 30, 745-771.	2.4	117
62	Optimizing aircraft routings in response to groundings and delays. IIE Transactions, 2001, 33, 931-947.	2.1	63
63	Optimizing Aircraft Routings in response to Groundings and Delays. IIE Transactions, 2001, 33, 931-947.	2.1	9
64	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
65	A branch-and-bound algorithm for permutation flow shops with sequence-dependent setup times. IIE Transactions, 1999, 31, 721-731.	2.1	0
66	A branch-and-bound algorithm for permutation flow shops with sequence-dependent setup times. IIE Transactions, 1999, 31, 721-731.	2.1	48
67	A branch and cut algorithm for the VRP with satellite facilities. IIE Transactions, 1998, 30, 821-834.	2.1	3
68	A branch and cut algorithm for the VRP with satellite facilities. IIE Transactions, 1998, 30, 821-834.	2.1	58
69	Title is missing!. Flexible Services and Manufacturing Journal, 1997, 9, 251-272.	0.4	3
70	Mathematical Programming for Industrial Engineers. IIE Transactions, 1997, 29, 800-801.	2.1	0
71	Engineering Optimization: Theory and Practice, Third Edition. IIE Transactions, 1997, 29, 802-803.	2.1	6
72	A Grasp for Aircraft Routing in Response to Groundings and Delays. Journal of Combinatorial Optimization, 1997, 1, 211-228.	0.8	124

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73	A GRASP for scheduling printed wiring board assembly. IIE Transactions, 1996, 28, 155-165.	2.1	25
74	DESIGN OF SEMI-AUTOMATED MAIL PROCESSING FACILITIES. IIE Transactions, 1993, 25, 88-101.	2.1	10
75	A COMPARISON OF THE ANALYTIC HIERARCHY PROCESS WITH MULTIATTRIBUTE UTILITY THEORY: A CASE STUDY. IIE Transactions, 1992, 24, 111-121.	2.1	23
76	An algorithm for the mixed-integer nonlinear bilevel programming problem. Annals of Operations Research, 1992, 34, 149-162.	2.6	59
77	An algorithm for the discrete bilevel programming problem. Naval Research Logistics, 1992, 39, 419-435.	1.4	115
78	An Algorithm for the Manufacturing Equipment Selection Problem. IIE Transactions, 1991, 23, 83-92.	2.1	53
79	A Simulation Analysis of Advanced Concepts for Semi-automated Mail Processing. Journal of the Operational Research Society, 1991, 42, 1071-1086.	2.1	12
80	Arc Reduction and Path Preference in Stochastic Acyclic Networks. Management Science, 1991, 37, 198-215.	2.4	26
81	Designing Telecommunications Networks for the Reseller Market. Management Science, 1991, 37, 1125-1146.	2.4	3
82	A GRASP for a difficult single machine scheduling problem. Computers and Operations Research, 1991, 18, 635-643.	2.4	77
83	Assembly line balancing with parallel workstations and dead time. International Journal of Production Research, 1989, 27, 1005-1018.	4.9	69
84	A Heuristic for Minimizing the Number of Tool Switches on a Flexible Machine. IIE Transactions, 1988, 20, 382-391.	2.1	108
85	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