

Brian T Denton

List of Publications by Year in descending order

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Version: 2024-02-01

83
papers

3,950
citations

172207

29
h-index

133063

59
g-index

85
all docs

85
docs citations

85
times ranked

3191
citing authors

#	ARTICLE	IF	CITATIONS
1	Appointment scheduling in health care: Challenges and opportunities. IIE Transactions, 2008, 40, 800-819.	2.1	776
2	Optimization of surgery sequencing and scheduling decisions under uncertainty. Health Care Management Science, 2007, 10, 13-24.	1.5	406
3	Optimal Allocation of Surgery Blocks to Operating Rooms Under Uncertainty. Operations Research, 2010, 58, 802-816.	1.2	274
4	A Sequential Bounding Approach for Optimal Appointment Scheduling. IIE Transactions, 2003, 35, 1003-1016.	2.1	270
5	Operating Room Pooling and Parallel Surgery Processing Under Uncertainty. INFORMS Journal on Computing, 2011, 23, 220-237.	1.0	168
6	Bi-criteria Scheduling of Surgical Services for an Outpatient Procedure Center. Production and Operations Management, 2011, 20, 406-417.	2.1	118
7	Dynamic Appointment Scheduling of a Stochastic Server with Uncertain Demand. INFORMS Journal on Computing, 2013, 25, 116-132.	1.0	107
8	Optimal booking and scheduling in outpatient procedure centers. Computers and Operations Research, 2014, 50, 24-37.	2.4	92
9	Optimal two-phase vaccine allocation to geographically different regions under uncertainty. European Journal of Operational Research, 2014, 233, 208-219.	3.5	87
10	Estimating the Cost of No-Shows and Evaluating the Effects of Mitigation Strategies. Medical Decision Making, 2013, 33, 976-985.	1.2	83
11	Optimization of Prostate Biopsy Referral Decisions. Manufacturing and Service Operations Management, 2012, 14, 529-547.	2.3	72
12	Optimizing the Start Time of Statin Therapy for Patients with Diabetes. Medical Decision Making, 2009, 29, 351-367.	1.2	71
13	A Discrete Event Simulation Model to Evaluate Operational Performance of a Colonoscopy Suite. Medical Decision Making, 2010, 30, 380-387.	1.2	66
14	Benefit and harm of intensive blood pressure treatment: Derivation and validation of risk models using data from the SPRINT and ACCORD trials. PLoS Medicine, 2017, 14, e1002410.	3.9	60
15	Reasons for Discontinuing Active Surveillance: Assessment of 21 Centres in 12 Countries in the Movember GAP3 Consortium. European Urology, 2019, 75, 523-531.	0.9	58
16	Second-Line Agents for Glycemic Control for Type 2 Diabetes: Are Newer Agents Better?. Diabetes Care, 2014, 37, 1338-1345.	4.3	57
17	Cost-effectiveness of magnetic resonance imaging and targeted fusion biopsy for early detection of prostate cancer. BJU International, 2018, 122, 50-58.	1.3	49
18	A Progressive Hedging Approach for Surgery Planning Under Uncertainty. INFORMS Journal on Computing, 2015, 27, 755-772.	1.0	47

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19	Managing Increasing Product Variety at Integrated Steel Mills. <i>Interfaces</i> , 2003, 33, 41-53.	1.6	41
20	Optimization of PSA Screening Policies. <i>Medical Decision Making</i> , 2012, 32, 337-349.	1.2	41
21	IBM Solves a Mixed-Integer Program to Optimize Its Semiconductor Supply Chain. <i>Interfaces</i> , 2006, 36, 386-399.	1.6	40
22	Improving Patient Access to Chemotherapy Treatment at Duke Cancer Institute. <i>Interfaces</i> , 2013, 43, 449-461.	1.6	39
23	Online appointment sequencing and scheduling. <i>IIE Transactions</i> , 2015, 47, 1267-1286.	2.1	39
24	A stochastic programming approach to reduce patient wait times and overtime in an outpatient infusion center. <i>IIE Transactions on Healthcare Systems Engineering</i> , 2016, 6, 111-125.	0.8	39
25	Optimizing Statin Treatment Decisions for Diabetes Patients in the Presence of Uncertain Future Adherence. <i>Medical Decision Making</i> , 2012, 32, 154-166.	1.2	37
26	Markov Decision Processes for Screening and Treatment of Chronic Diseases. <i>Profiles in Operations Research</i> , 2017, , 189-222.	0.3	36
27	Improving Clinical Access and Continuity through Physician Panel Redesign. <i>Journal of General Internal Medicine</i> , 2010, 25, 1109-1115.	1.3	33
28	The structure of optimal statin initiation policies for patients with Type 2 diabetes. <i>IIE Transactions on Healthcare Systems Engineering</i> , 2011, 1, 49-65.	0.8	33
29	Toward Better Use of Bone Scans Among Men With Early-stage Prostate Cancer. <i>Urology</i> , 2014, 84, 793-798.	0.5	32
30	askMUSIC: Leveraging a Clinical Registry to Develop a New Machine Learning Model to Inform Patients of Prostate Cancer Treatments Chosen by Similar Men. <i>European Urology</i> , 2019, 75, 901-907.	0.9	32
31	Costs of medical care after open or minimally invasive prostate cancer surgery. <i>Cancer</i> , 2012, 118, 3079-3086.	2.0	29
32	Assessment of long-term outcomes associated with urinary prostate cancer antigen 3 and TMPRSS2:ERG gene fusion at repeat biopsy. <i>Cancer</i> , 2015, 121, 4071-4079.	2.0	28
33	Anticipatory Positive Urine Tests for Bladder Cancer. <i>Annals of Surgical Oncology</i> , 2017, 24, 1747-1753.	0.7	27
34	Clinical Predictors and Recommendations for Staging Computed Tomography Scan Among Men With Prostate Cancer. <i>Urology</i> , 2014, 84, 1329-1334.	0.5	26
35	A Statewide Intervention Improves Appropriate Imaging in Localized Prostate Cancer. <i>Journal of Urology</i> , 2017, 197, 1222-1228.	0.2	26
36	Chance-Constrained Surgery Planning Under Conditions of Limited and Ambiguous Data. <i>INFORMS Journal on Computing</i> , 2019, 31, 559-575.	1.0	26

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37	Medical decision making: open research challenges. IIE Transactions on Healthcare Systems Engineering, 2011, 1, 161-167.	0.8	25
38	From Data to Improved Decisions: Operations Research in Healthcare Delivery. Medical Decision Making, 2017, 37, 849-859.	1.2	25
39	IBM Blends Heuristics and Optimization to Plan Its Semiconductor Supply Chain. Interfaces, 2013, 43, 130-141.	1.6	24
40	Surgery scheduling with recovery resources. IIE Transactions, 2017, 49, 942-955.	1.6	24
41	Adherence to Active Surveillance Protocols for Low-risk Prostate Cancer: Results of the Movember Foundation's Global Action Plan Prostate Cancer Active Surveillance Initiative. European Urology Oncology, 2020, 3, 80-91.	2.6	24
42	Simulation optimization of PSA-threshold based prostate cancer screening policies. Health Care Management Science, 2012, 15, 293-309.	1.5	22
43	Fast Approximation Methods for Online Scheduling of Outpatient Procedure Centers. INFORMS Journal on Computing, 2017, 29, 631-644.	1.0	19
44	Predicting Biopsy Outcomes During Active Surveillance for Prostate Cancer: External Validation of the Canary Prostate Active Surveillance Study Risk Calculators in Five Large Active Surveillance Cohorts. European Urology, 2019, 76, 693-702.	0.9	18
45	Branch and Price for Chance-Constrained Bin Packing. INFORMS Journal on Computing, 2020, 32, 547-564.	1.0	18
46	Factors Influencing Selection of Active Surveillance for Localized Prostate Cancer. Urology, 2015, 86, 901-905.	0.5	16
47	Strategic inventory deployment in the steel industry. IIE Transactions, 2004, 36, 1083-1097.	2.1	15
48	Bi-criteria evaluation of an outpatient procedure center via simulation. , 2007, , .		12
49	Comparative Effectiveness of Guidelines for the Management of Hyperlipidemia and Hypertension for Type 2 Diabetes Patients. PLoS ONE, 2011, 6, e16170.	1.1	12
50	Two-Stage Biomarker Protocols for Improving the Precision of Early Detection of Prostate Cancer. Medical Decision Making, 2017, 37, 815-826.	1.2	12
51	Optimizing active surveillance strategies to balance the competing goals of early detection of grade progression and minimizing harm from biopsies. Cancer, 2018, 124, 698-705.	2.0	12
52	¹⁸ F-Choline PET/mpMRI for Detection of Clinically Significant Prostate Cancer: Part 2. Cost-Effectiveness Analysis. Journal of Nuclear Medicine, 2019, 60, 1705-1712.	2.8	12
53	Changing trends in type 2 diabetes mellitus treatment intensification, 2002-2010. American Journal of Managed Care, 2015, 21, e288-96.	0.8	12
54	Comparison of Surveillance Strategies for Low-Risk Bladder Cancer Patients. Medical Decision Making, 2013, 33, 198-214.	1.2	11

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55	18F-Choline PET/mpMRI for Detection of Clinically Significant Prostate Cancer: Part 1. Improved Risk Stratification for MRI-Guided Transrectal Prostate Biopsies. <i>Journal of Nuclear Medicine</i> , 2020, 61, 337-343.	2.8	11
56	Grade Groups Provide Improved Predictions of Pathological and Early Oncologic Outcomes Compared with Gleason Score Risk Groups. <i>Journal of Urology</i> , 2019, 201, 278-283.	0.2	11
57	Heuristics for balancing Operating Room and post-anesthesia resources under uncertainty. , 2008, , .		10
58	Optimization of Sequential Decision Making for Chronic Diseases: From Data to Decisions. , 2018, , 316-348.		8
59	Probabilistic sensitivity analysis on Markov models with uncertain transition probabilities: an application in evaluating treatment decisions for type 2 diabetes. <i>Health Care Management Science</i> , 2019, 22, 34-52.	1.5	8
60	Multi-model Markov decision processes. <i>IIE Transactions</i> , 0, , 1-16.	1.6	8
61	Optimizing active surveillance for prostate cancer using partially observable Markov decision processes. <i>European Journal of Operational Research</i> , 2023, 305, 386-399.	3.5	8
62	Using simulation in the implementation of an Outpatient Procedure Center. , 2008, , .		7
63	Evaluation of Prostate Cancer Risk Calculators for Shared Decision Making Across Diverse Urology Practices in Michigan. <i>Urology</i> , 2017, 104, 137-142.	0.5	7
64	Appointment scheduling and the effects of customer congestion on service. <i>IIE Transactions</i> , 2019, 51, 1075-1090.	1.6	6
65	Comparison of biopsy underâ€sampling and annual progression using hidden markov models to learn from prostate cancer active surveillance studies. <i>Cancer Medicine</i> , 2020, 9, 9611-9619.	1.3	6
66	An introduction to a new journal for Healthcare Systems Engineering. <i>IIE Transactions on Healthcare Systems Engineering</i> , 2011, 1, 1-5.	0.8	5
67	OR Practiceâ€Data Analytics for Optimal Detection of Metastatic Prostate Cancer. <i>Operations Research</i> , 2021, 69, 774-794.	1.2	5
68	Operations research models and methods in the screening, detection, and treatment of prostate cancer: A categorized, annotated review. <i>Operations Research for Health Care</i> , 2016, 8, 9-21.	0.8	4
69	Temporary Health Impact of Prostate MRI and Transrectal Prostate Biopsy in Active Surveillance Prostate Cancer Patients. <i>Journal of the American College of Radiology</i> , 2019, 16, 1385-1392.	0.9	4
70	Development and Validation of Models to Predict Pathological Outcomes of Radical Prostatectomy in Regional and National Cohorts. <i>Journal of Urology</i> , 2022, 207, 358-366.	0.2	4
71	Optimizing Prostate Cancer Surveillance: Using Data-driven Models for Informed Decision-making. <i>European Urology</i> , 2019, 75, 918-919.	0.9	3
72	Frontiers of medical decision-making in the modern age of data analytics. <i>IIE Transactions</i> , 2023, 55, 94-105.	1.6	3

#	ARTICLE	IF	CITATIONS
73	Improving primary care access using simulation optimization. , 2007, , .		2
74	Using Longitudinal Health Records to Simulate the Impact of National Treatment Guidelines for Cardiovascular Disease. , 2021, , .		2
75	Active Surveillance vs Immediate Treatmentâ€”Which Has a Greater Financial Incentive for Urologists?. Urology Practice, 2020, 7, 182-187.	0.2	1
76	Planning models for skills-sensitive surgical nurse staffing: a case study at a large academic medical center. IISE Transactions on Healthcare Systems Engineering, 2020, 10, 277-293.	1.2	1
77	Prospective monitoring of imaging guideline adherence by physicians in a surgical collaborative: comparison of statistical process control methods for detecting outlying performance. BMC Medical Informatics and Decision Making, 2020, 20, 89.	1.5	1
78	Note on â€œSimulation optimization of PSA-threshold based prostate cancer screening policiesâ€: Health Care Management Science, 2013, 16, 377-378.	1.5	0
79	Response to Comments on Zhang et al. Second-Line Agents for Glycemic Control for Type 2 Diabetes: Are Newer Agents Better? Diabetes Care 2014;37:1338â€“1345. Diabetes Care, 2014, 37, e206-e207.	4.3	0
80	Decomposition methods for solving Markov decision processes with multiple models of the parameters. IISE Transactions, 0, , 1-58.	1.6	0
81	Optimization for Non-Markovian Disease Models: An Application to Active Surveillance for Prostate Cancer. SSRN Electronic Journal, 0, , .	0.4	0
82	Pareto-Weighted-Sum-Tuning: Learning-to-Rank for Pareto Optimization Problems. Lecture Notes in Computer Science, 2020, , 470-480.	1.0	0
83	Optimization of Biomarker-Based Prostate Cancer Screening Policies. , 2022, , 141-158.		0