Richard J Boucherie

List of Publications by Year
in descending order

93 papers	1,745 citations	331642 21 h-index	315719 38 g-index
94 all docs	94 docs citations	94 times ranked	1109 citing authors

#	Article	IF	Citations
1	Taxonomic classification of planning decisions in health care: a structured review of the state of the art in OR/MS. Health Systems, 2012, 1, 129-175.	1.2	292
2	Managing the overflow of intensive care patients. European Journal of Operational Research, 2008, 185, 998-1010.	5.7	117
3	Running times on railway sections with heterogeneous train traffic. Transportation Research Part B: Methodological, 2001, 35, 271-292.	5.9	84
4	Product forms for queueing networks with state-dependent multiple job transitions. Advances in Applied Probability, 1991, 23, 152-187.	0.7	79
5	Planning and scheduling of semi-urgent surgeries. Health Care Management Science, 2010, 13, 256-267.	2.6	69
6	The Workload in the M/G/1 Queue with Work Removal. Probability in the Engineering and Informational Sciences, 1996, 10, 261-277.	0.8	60
7	A solvable queueing network model for railway networks and its validation and applications for the Netherlands. European Journal of Operational Research, 2002, 142, 30-51.	5.7	60
8	Efficiency evaluation for pooling resources in health care. OR Spectrum, 2012, 34, 371-390.	3.4	52
9	A Note on Negative Customers, GI/G/1 Workload, and Risk Processes. Probability in the Engineering and Informational Sciences, 1997, 11, 305-311.	0.8	51
10	Tactical resource allocation and elective patient admission planning in care processes. Health Care Management Science, 2013, 16, 152-166.	2.6	46
11	Product forms for queueing networks with state-dependent multiple job transitions. Advances in Applied Probability, 1991, 23, 152-187.	0.7	43
12	Redesign of a University Hospital Preanesthesia Evaluation Clinic Using a Queuing Theory Approach. Anesthesia and Analgesia, 2009, 109, 1612-1621.	2.2	41
13	Accounting for Inpatient Wards When Developing Master Surgical Schedules. Anesthesia and Analgesia, 2011, 112, 1472-1479.	2.2	40
14	Designing cyclic appointment schedules for outpatient clinics with scheduled and unscheduled patient arrivals. Performance Evaluation, 2014, 80, 5-26.	1.2	35
15	Elastic calls in an integrated services network: the greater the call size variability the better the QoS. Performance Evaluation, 2003, 52, 193-220.	1.2	33
16	Patient admission planning using Approximate Dynamic Programming. Flexible Services and Manufacturing Journal, 2016, 28, 30-61.	3.4	28
17	A generalization of Norton's theorem for queueing networks. Queueing Systems, 1993, 13, 251-289.	0.9	27
18	On a Queueing Network Model for Cellular Mobile Telecommunications Networks. Operations Research, 2000, 48, 38-49.	1.9	26

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19	Real-time forecasting of COVID-19 bed occupancy in wards and Intensive Care Units. Health Care Management Science, 2021, 24, 402-419.	2.6	26
20	Spatial birth-death processes with multiple changes and applications to batch service networks and clustering processes. Advances in Applied Probability, 1990, 22, 433-455.	0.7	23
21	Local balance in queueing networks with positive and negative customers. Annals of Operations Research, 1994, 48, 463-492.	4.1	22
22	Estimation of performance measures for product form cellular mobile communications networks. Telecommunication Systems, 1998, 10, 321-354.	2.5	22
23	ORchestra: an online reference database of OR/MS literature in health care. Health Care Management Science, 2011, 14, 383-384.	2.6	22
24	Reducing access times for radiation treatment by aligning the doctorâ€™s schemes. Operations Research for Health Care, 2015, 7, 111-121.	1.2	21
25	Transient product from distributions in queueing networks. Discrete Event Dynamic Systems: Theory and Applications, 1993, 3, 375-396.	1.5	20
26	On the arrivai theorem for product form queueing networks with blocking. Performance Evaluation, 1997, 29, 155-176.	1.2	20
27	Throughputs in processor sharing models for integrated stream and elastic traffic. Performance Evaluation, 2008, 65, 152-180.	1.2	20
28	A polling model with an autonomous server. Queueing Systems, 2009, 62, 279-308.	0.9	18
29	Time-limited polling systems with batch arrivals andÂphase-type service times. Annals of Operations Research, 2012, 198, 57-82.	4.1	17
30	Allocating Emergency Beds Improves the Emergency Admission Flow. Interfaces, 2018, 48, 384-394.	1.5	16
31	Title is missing!. Annals of Operations Research, 2002, 112, 15-34.	4.1	15
32	Insensitive bounds for the moments of the sojourn time distribution in the M/G/1 processor-sharing queue. Queueing Systems, 2006, 53, 7-18.	0.9	15
33	A Tandem Queueing Model for Delay Analysis in Disconnected Ad Hoc Networks. Lecture Notes in Computer Science, 2008, , 189-205.	1.3	15
34	Analytical models to determine room requirements in outpatient clinics. OR Spectrum, 2012, 34, 391-405.	3.4	14
35	Integral resource capacity planning for inpatient care services based on bed census predictions by hour. Journal of the Operational Research Society, 2015, 66, 1061-1076.	3.4	14
36	On closed support T-Invariants and the traffic equations. Journal of Applied Probability, 1998, 35, 473-481.	0.7	13

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37	Decomposing the queue length distribution of processor-sharing models into queue lengths of permanent customer queues. Performance Evaluation, 2005, 62, 100-116.	1.2	11
38	Modeling the effect of short stay units on patient admissions. Operations Research for Health Care, 2015, 5, 21-27.	1.2	11
39	Norton's equivalent for queueing networks comprised of quasireversible components linked by state-dependent routing. Performance Evaluation, 1998, 32, 83-99.	1.2	10
40	Analysis of flow transfer times in IEEE 802.11 wireless LANs. Annales Des Telecommunications/Annals of Telecommunications, 2004, 59, 1407-1432.	2.5	10
41	Static and dynamic appointment scheduling to improve patient access time. Health Systems, 2018, 7, 148-159.	1.2	10
42	Minimizing Earliness/Tardiness costs on multiple machines with an application to surgery scheduling. Operations Research for Health Care, 2019, 22, 100194.	1.2	10
43	Invariant measures and error bounds for random walks in the quarter-plane based on sums of geometric terms. Queueing Systems, 2016, 84, 21-48.	0.9	9
44	Monotonicity and error bounds for networks of Erlang loss queues. Queueing Systems, 2009, 62, 159-193.	0.9	8
45	Threshold Queueing to Describe the Fundamental Diagram of Uninterrupted Traffic. Transportation Science, 2019, 53, 585-596.	4.4	8
46	Performance Analysis of Fair Channel Sharing Policies in an Integrated Cellular Voice/Data Network. Telecommunication Systems, 2002, 19, 147-186.	2.5	7
47	Arrival first queueing networks with applications in kanban production systems. Performance Evaluation, 2003, 51, 83-102.	1.2	7
48	On a tandem queue with batch service and its applications in wireless sensor networks. Queueing Systems, 2017, 87, 81-93.	0.9	7
49	Outpatient clinic scheduling with limited waiting area capacity. Journal of the Operational Research Society, 2023, 74, 540-561.	3.4	7
50	Batch Routing Queueing Networks with Jump-Over Blocking. Probability in the Engineering and Informational Sciences, 1996, 10, 287-297.	0.8	6
51	On closed support T-Invariants and the traffic equations. Journal of Applied Probability, 1998, 35, 473-481.	0.7	6
52	Queuing Networks in Health Care Systems. Profiles in Operations Research, 2012, , 201-243.	0.4	6
53	Energyâ€“delay tradeoff in a two-way relay with network coding. Performance Evaluation, 2013, 70, 981-994.	1.2	6
54	An interdiction game on a queueing network with multiple intruders. European Journal of Operational Research, 2017, 260, 1069-1080.	5.7	6

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55	ONLINE CAPACITY PLANNING FOR REHABILITATION TREATMENTS: AN APPROXIMATE DYNAMIC PROGRAMMING APPROACH. Probability in the Engineering and Informational Sciences, 2020, 34, 381-405.	0.8	6
56	The sojourn time distribution in an infinite server resequencing queue with dependent interarrival and service times. Journal of Applied Probability, 2002, 39, 590-603.	0.7	6
57	Product forms based on backward traffic equations. Journal of Applied Probability, 1995, 32, 508-518.	0.7	5
58	THE INVARIANT MEASURE OF RANDOM WALKS IN THE QUARTER-PLANE: REPRESENTATION IN GEOMETRIC TERMS. Probability in the Engineering and Informational Sciences, 2015, 29, 233-251.	0.8	5
59	Assigning treatment rooms at the Emergency Department. Operations Research for Health Care, 2016, 8, 62-70.	1.2	5
60	Appointment scheduling with unscheduled arrivals and reprioritization. Flexible Services and Manufacturing Journal, 2018, 30, 30-53.	3.4	5
61	An analytical model for CDMA downlink rate optimization taking into account uplink coverage restrictions. Performance Evaluation, 2005, 59, 225-246.	1.2	4
62	Rapid diagnoses at the breast center of Jeroen Bosch Hospital: a case study invoking queueing theory and discrete event simulation. Health Systems, 2017, 6, 77-89.	1.2	4
63	Analysis of polling models with a self-ruling server. Queueing Systems, 2020, 94, 77-107.	0.9	4
64	The sojourn time distribution in an infinite server resequencing queue with dependent interarrival and service times. Journal of Applied Probability, 2002, 39, 590-603.	0.7	3
65	On the distribution of calls in a wireless network driven by fluid traffic. European Journal of Operational Research, 2003, 147, 146-155.	5.7	3
66	Transient handover blocking probabilities in road covering cellular mobile networks. Computer Networks, 2003, 42, 537-550.	5.1	3
67	Health care logistics and space: Accounting for the physical build environment. , 2012, , .		3
68	A TWO-ECHELON SPARE PARTS NETWORK WITH LATERAL AND EMERGENCY SHIPMENTS: A PRODUCT-FORM APPROXIMATION. Probability in the Engineering and Informational Sciences, 2018, 32, 536-555.	0.8	3
69	Aggregation of Markov chains. Stochastic Processes and Their Applications, 1993, 45, 95-114.	0.9	2
70	Norton's equivalent for batch routing queueing networks with independently routing customers. Stochastic Models, 1998, 14, 1091-1112.	0.3	2
71	NORTON'S THEOREM FOR BATCH ROUTING QUEUEING NETWORKS. Stochastic Models, 2001, 17, 39-60.	0.5	2
72	A - and -invariant characterization of product form and decomposition in stochastic Petri nets. Performance Evaluation, 2012, 69, 573-599.	1.2	2

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73	Decentralized vs. centralized scheduling in wireless sensor networks for data fusion. , 2014, , .		2
74	DELAY IN A TANDEM QUEUEING MODEL WITH MOBILE QUEUES: AN ANALYTICAL APPROXIMATION. Probability in the Engineering and Informational Sciences, 2014, 28, 363-387.	0.8	2
75	Transient analysis for exponential time-limited polling models under the preemptive repeat random policy. Advances in Applied Probability, 2020, 52, 32-60.	0.7	2
76	A Survey of Literature Reviews on Patient Planning and Scheduling in Healthcare. Profiles in Operations Research, 2021, , 17-23.	0.4	2
77	An Upper Bound on Multi-hop Wireless Network Performance. Lecture Notes in Computer Science, 2007, , 335-347.	1.3	2
78	On the arrival theorem for queueing networks operating under a just-in-time protocol. Performance Evaluation, 1998, 34, 109-121.	1.2	1
79	ASYMPTOTIC EVALUATION OF BLOCKING PROBABILITIES IN A HIERARCHICAL CELLULAR MOBILE NETWORK. Probability in the Engineering and Informational Sciences, 2000, 14, 81-99.	0.8	1
80	Necessary conditions for the compensation approach for a random walk in the quarter-plane. Queueing Systems, 2020, 94, 257-277.	0.9	1
81	Non-cooperative queueing games on a network of single server queues. Queueing Systems, 2021, 97, 279-301.	0.9	1
82	A successive censoring algorithm for a system of connected LDQBD-processes. Annals of Operations Research, 2022, 310, 389-410.	4.1	1
83	Optimal Joint Rate and Power Allocation in CDMA Networks. , 2007, , 201-210.		1
84	Product forms based on backward traffic equations. Journal of Applied Probability, 1995, 32, 508-518.	0.7	0
85	Transient detailed balance and product form for reaction networks. Stochastic Models, 2017, 33, 322-341.	0.5	0
86	PERFORMANCE MEASURES FOR THE TWO-NODE QUEUE WITH FINITE BUFFERS. Probability in the Engineering and Informational Sciences, 2020, 34, 522-549.	0.8	0
87	Implementing Algorithms to Reduce Ward Occupancy Fluctuation Through Advanced Planning. Profiles in Operations Research, 2021, , 129-150.	0.4	0
88	Bed Census Predictions and Nurse Staffing. Profiles in Operations Research, 2021, , 151-180.	0.4	0
89	A Markov Modelling Approach for Surgical Process Analysis in Cataract Surgery. Profiles in Operations Research, 2021, , 97-110.	0.4	0
90	Robust Surgery Scheduling: A Model-Based Overview. Profiles in Operations Research, 2021, , 37-56.	0.4	0

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91	Content-Based Routing in Networks with Time-Fluctuating Request Rates. Lecture Notes in Computer Science, 2009, , 75-90.	1.3	0
92	Nortonâ€™s theorem and insensitivity. Queueing Systems, 0, , 1.	0.9	0
93	Limited waiting areas in outpatient clinics: an intervention to incorporate the effect of bridging times in blueprint schedules. BMJ Open Quality, 2022, 11, e001703.	1.1	0