Richard J Boucherie

List of Publications by Citations

93 papers	1,300 citations	18 h-index	33 g-index
94 ext. papers	1,487 ext. citations	1.8 avg, IF	4.41 L-index

#	Paper	IF	Citations
93	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	2.3	229
92	Managing the overflow of intensive care patients. *European Journal of Operational Research*, **2008**, 185, 998-1010	5.6	95
91	Running times on railway sections with heterogeneous train traffic. *Transportation Research Part B: Methodological*, **2001**, 35, 271-292	7.2	68
90	Product forms for queueing networks with state-dependent multiple job transitions. *Advances in Applied Probability*, **1991**, 23, 152-187	0.7	58
89	Planning and scheduling of semi-urgent surgeries. *Health Care Management Science*, **2010**, 13, 256-67	4	54
88	The Workload in the M/G/1 Queue with Work Removal. *Probability in the Engineering and Informational Sciences*, **1996**, 10, 261-277	0.6	48
87	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	5.6	42
86	A Note on Negative Customers, GI/G/1 Workload, and Risk Processes. *Probability in the Engineering and Informational Sciences*, **1997**, 11, 305-311	0.6	38
85	Efficiency evaluation for pooling resources in health care. *OR Spectrum*, **2012**, 34, 371-390	1.9	37
84	Tactical resource allocation and elective patient admission planning in care processes. *Health Care Management Science*, **2013**, 16, 152-66	4	37
83	Product forms for queueing networks with state-dependent multiple job transitions. *Advances in Applied Probability*, **1991**, 23, 152-187	0.7	32
82	Redesign of a university hospital preanesthesia evaluation clinic using a queuing theory approach. *Anesthesia and Analgesia*, **2009**, 109, 1612-21	3.9	30
81	Designing cyclic appointment schedules for outpatient clinics with scheduled and unscheduled patient arrivals. *Performance Evaluation*, **2014**, 80, 5-26	1.2	29
80	Accounting for inpatient wards when developing master surgical schedules. *Anesthesia and Analgesia*, **2011**, 112, 1472-9	3.9	29
79	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	24
78	On a Queueing Network Model for Cellular Mobile Telecommunications Networks. *Operations Research*, **2000**, 48, 38-49	2.3	19
77	A generalization of Norton's theorem for queueing networks. *Queueing Systems*, **1993**, 13, 251-289	1.7	19

76	Reducing access times for radiation treatment by aligning the doctors' schemes. *Operations Research for Health Care*, **2015**, 7, 111-121	1.8	18
75	ORchestra: an online reference database of OR/MS literature in health care. *Health Care Management Science*, **2011**, 14, 383-4	4	18
74	Local balance in queueing networks with positive and negative customers. *Annals of Operations Research*, **1994**, 48, 463-492	3.2	18
73	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	18
72	Patient admission planning using Approximate Dynamic Programming. *Flexible Services and Manufacturing Journal*, **2016**, 28, 30-61	1.8	16
71	A polling model with an autonomous server. *Queueing Systems*, **2009**, 62, 279-308	1.7	16
70	On the arrivai theorem for product form queueing networks with blocking. *Performance Evaluation*, **1997**, 29, 155-176	1.2	14
69	Estimation of performance measures for product form cellular mobile communications networks. *Telecommunication Systems*, **1998**, 10, 321-354	2.3	14
68	Throughputs in processor sharing models for integrated stream and elastic traffic. *Performance Evaluation*, **2008**, 65, 152-180	1.2	14
67	Time-limited polling systems with batch arrivals and phase-type service times. *Annals of Operations Research*, **2012**, 198, 57-82	3.2	13
66	Insensitive bounds for the moments of the sojourn time distribution in the M/G/1 processor-sharing queue. *Queueing Systems*, **2006**, 53, 7-18	1.7	13
65	Transient product from distributions in queueing networks. *Discrete Event Dynamic Systems: Theory and Applications*, **1993**, 3, 375-396	1	13
64	Analytical models to determine room requirements in outpatient clinics. *OR Spectrum*, **2012**, 34, 391-405	1.9	12
63	On closed support T-Invariants and the traffic equations. *Journal of Applied Probability*, **1998**, 35, 473-481	0.8	12
62	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	2	11
61	Blocking Probabilities in Mobile Communications Networks with Time-Varying Rates and Redialing Subscribers. *Annals of Operations Research*, **2002**, 112, 15-34	3.2	11
60	Analysis of flow transfer times in IEEE 802.11 wireless LANs. *Annales Des Telecommunications/Annals of Telecommunications*, **2004**, 59, 1407-1432	2	10
59	Decomposing the queue length distribution of processor-sharing models into queue lengths of permanent customer queues. *Performance Evaluation*, **2005**, 62, 100-116	1.2	10

58	Modeling the effect of short stay units on patient admissions. *Operations Research for Health Care*, **2015**, 5, 21-27	1.8	9
57	A Tandem Queueing Model for Delay Analysis in Disconnected Ad Hoc Networks. *Lecture Notes in Computer Science*, **2008**, 189-205	0.9	9
56	Allocating Emergency Beds Improves the Emergency Admission Flow. *Interfaces*, **2018**, 48, 384-394	0.7	9
55	Norton's equivalent for queueing networks comprised of quasireversible components linked by state-dependent routing. *Performance Evaluation*, **1998**, 32, 83-99	1.2	8
54	Performance Analysis of Fair Channel Sharing Policies in an Integrated Cellular Voice/Data Network. *Telecommunication Systems*, **2002**, 19, 147-186	2.3	7
53	Invariant measures and error bounds for random walks in the quarter-plane based on sums of geometric terms. *Queueing Systems*, **2016**, 84, 21-48	1.7	6
52	Threshold Queueing to Describe the Fundamental Diagram of Uninterrupted Traffic. *Transportation Science*, **2019**, 53, 585-596	4.4	5
51	Minimizing Earliness/Tardiness costs on multiple machines with an application to surgery scheduling. *Operations Research for Health Care*, **2019**, 22, 100194	1.8	5
50	Energy–delay tradeoff in a two-way relay with network coding. *Performance Evaluation*, **2013**, 70, 981-994	1.2	5
49	On closed support T-Invariants and the traffic equations. *Journal of Applied Probability*, **1998**, 35, 473-481	0.8	5
48	Real-time forecasting of COVID-19 bed occupancy in wards and Intensive Care Units. *Health Care Management Science*, **2021**, 24, 402-419	4	5
47	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	0.6	4
46	Appointment scheduling with unscheduled arrivals and reprioritization. *Flexible Services and Manufacturing Journal*, **2018**, 30, 30-53	1.8	4
45	On a tandem queue with batch service and its applications in wireless sensor networks. *Queueing Systems*, **2017**, 87, 81-93	1.7	4
44	Queuing Networks in Health Care Systems. *Profiles in Operations Research*, **2012**, 201-243	1	4
43	Monotonicity and error bounds for networks of Erlang loss queues. *Queueing Systems*, **2009**, 62, 159-193	1.7	4
42	Arrival first queueing networks with applications in kanban production systems. *Performance Evaluation*, **2003**, 51, 83-102	1.2	4
41	Batch Routing Queueing Networks with Jump-Over Blocking. *Probability in the Engineering and Informational Sciences*, **1996**, 10, 287-297	0.6	4

40	Outpatient clinic scheduling with limited waiting area capacity. *Journal of the Operational Research Society*,1-22	2	4
39	An interdiction game on a queueing network with multiple intruders. *European Journal of Operational Research*, **2017**, 260, 1069-1080	5.6	3
38	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	2.3	3
37	Health care logistics and space: Accounting for the physical build environment **2012**,		3
36	On the distribution of calls in a wireless network driven by fluid traffic. *European Journal of Operational Research*, **2003**, 147, 146-155	5.6	3
35	Transient handover blocking probabilities in road covering cellular mobile networks. *Computer Networks*, **2003**, 42, 537-550	5.4	3
34	An analytical model for CDMA downlink rate optimization taking into account uplink coverage restrictions. *Performance Evaluation*, **2005**, 59, 225-246	1.2	3
33	Product forms based on backward traffic equations. *Journal of Applied Probability*, **1995**, 32, 508-518	0.8	3
32	The sojourn time distribution in an infinite server resequencing queue with dependent interarrival and service times. *Journal of Applied Probability*, **2002**, 39, 590-603	0.8	3
31	Analysis of polling models with a self-ruling server. *Queueing Systems*, **2020**, 94, 77-107	1.7	3
30	ONLINE CAPACITY PLANNING FOR REHABILITATION TREATMENTS: AN APPROXIMATE DYNAMIC PROGRAMMING APPROACH. *Probability in the Engineering and Informational Sciences*, **2020**, 34, 381-405	0.6	3
29	Static and dynamic appointment scheduling to improve patient access time. *Health Systems*, **2018**, 7, 148-159	2.3	3
28	Assigning treatment rooms at the Emergency Department. *Operations Research for Health Care*, **2016**, 8, 62-70	1.8	2
27	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
26	Decentralized vs. centralized scheduling in wireless sensor networks for data fusion **2014**,		2
25	A - and -invariant characterization of product form and decomposition in stochastic Petri nets. *Performance Evaluation*, **2012**, 69, 573-599	1.2	2
24	The sojourn time distribution in an infinite server resequencing queue with dependent interarrival and service times. *Journal of Applied Probability*, **2002**, 39, 590-603	0.8	2
23	Norton's equivalent for batch routing queueing networks with independently routing customers. *Stochastic Models*, **1998**, 14, 1091-1112		2

22	Aggregation of Markov chains. *Stochastic Processes and Their Applications*, **1993**, 45, 95-114	1.1	2
21	A Survey of Literature Reviews on Patient Planning and Scheduling in Healthcare. *Profiles in Operations Research*, **2021**, 17-23	1	2
20	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	0.6	1
19	DELAY IN A TANDEM QUEUEING MODEL WITH MOBILE QUEUES: AN ANALYTICAL APPROXIMATION. *Probability in the Engineering and Informational Sciences*, **2014**, 28, 363-387	0.6	1
18	On the arrival theorem for queueing networks operating under a just-in-time protocol. *Performance Evaluation*, **1998**, 34, 109-121	1.2	1
17	ASYMPTOTIC EVALUATION OF BLOCKING PROBABILITIES IN A HIERARCHICAL CELLULAR MOBILE NETWORK. *Probability in the Engineering and Informational Sciences*, **2000**, 14, 81-99	0.6	1
16	NORTON'S THEOREM FOR BATCH ROUTING QUEUEING NETWORKS. *Stochastic Models*, **2001**, 17, 39-60	0.5	1
15	An Upper Bound on Multi-hop Wireless Network Performance. *Lecture Notes in Computer Science*, **2007**, 335-347	0.9	1
14	Necessary conditions for the compensation approach for a random walk in the quarter-plane. *Queueing Systems*, **2020**, 94, 257-277	1.7	1
13	Making an Impact on Healthcare Logistics. *Profiles in Operations Research*, **2021**, 1-13	1	0
12	Non-cooperative queueing games on a network of single server queues. *Queueing Systems*, **2021**, 97, 279-301	1.7	0
11	Transient detailed balance and product form for reaction networks. *Stochastic Models*, **2017**, 33, 322-341	0.5	
10	Product forms based on backward traffic equations. *Journal of Applied Probability*, **1995**, 32, 508-518	0.8	
9	Optimal Joint Rate and Power Allocation in CDMA Networks **2007**, 201-210		
8	Content-Based Routing in Networks with Time-Fluctuating Request Rates. *Lecture Notes in Computer Science*, **2009**, 75-90	0.9	
7	PERFORMANCE MEASURES FOR THE TWO-NODE QUEUE WITH FINITE BUFFERS. *Probability in the Engineering and Informational Sciences*, **2020**, 34, 522-549	0.6	
6	Implementing Algorithms to Reduce Ward Occupancy Fluctuation Through Advanced Planning. *Profiles in Operations Research*, **2021**, 129-150	1	
5	Bed Census Predictions and Nurse Staffing. *Profiles in Operations Research*, **2021**, 151-180	1	

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4	A Markov Modelling Approach for Surgical Process Analysis in Cataract Surgery. *Profiles in Operations Research*, **2021**, 97-110	1
3	Robust Surgery Scheduling: A Model-Based Overview. *Profiles in Operations Research*, **2021**, 37-56	1
2	A successive censoring algorithm for a system of connected LDQBD-processes. *Annals of Operations Research*,1	3.2
1	Norton theorem and insensitivity. *Queueing Systems*,1	1.7