Richard Boucherie

List of Publications by Year in Descending Order

133 papers	**1,574** citations	**19** h-index	**35** g-index
140 ext. papers	**1,820** ext. citations	**2** avg, IF	**4.7** L-index

#	Paper	IF	Citations
133	Roots, Symmetry, and Contour Integrals in Queuing-Type Systems. *SIAM Journal on Applied Mathematics*, **2021**, 81, 2265-2295	1.8	0
132	Real-time forecasting of COVID-19 bed occupancy in wards and Intensive Care Units. *Health Care Management Science*, **2021**, 24, 402-419	4	5
131	Implementing Algorithms to Reduce Ward Occupancy Fluctuation Through Advanced Planning. *Profiles in Operations Research*, **2021**, 129-150	1	
130	Bed Census Predictions and Nurse Staffing. *Profiles in Operations Research*, **2021**, 151-180	1	
129	Robust Surgery Scheduling: A Model-Based Overview. *Profiles in Operations Research*, **2021**, 37-56	1	
128	Non-cooperative queueing games on a network of single server queues. *Queueing Systems*, **2021**, 97, 279-301	1.7	0
127	Theoretical and Practical Aspects of Outpatient Clinic Optimization. *Profiles in Operations Research*, **2021**, 25-36	1	1
126	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
125	Analysis of polling models with a self-ruling server. *Queueing Systems*, **2020**, 94, 77-107	1.7	3
124	PERFORMANCE MEASURES FOR THE TWO-NODE QUEUE WITH FINITE BUFFERS. *Probability in the Engineering and Informational Sciences*, **2020**, 34, 522-549	0.6	
123	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
122	Optimal deployment for anti-submarine operations with time-dependent strategies. *Journal of Defense Modeling and Simulation*, **2020**, 17, 419-434	0.4	
121	Necessary conditions for the compensation approach for a random walk in the quarter-plane. *Queueing Systems*, **2020**, 94, 257-277	1.7	1
120	An exact root-free method for the expected queue length for a class of discrete-time queueing systems. *Queueing Systems*, **2019**, 92, 257-292	1.7	3
119	An average case analysis of the minimum spanning tree heuristic for the power assignment problem. *Random Structures and Algorithms*, **2019**, 55, 89-103	0.8	2
118	Solving partially observable agent-intruder games with an application to border security problems. *Naval Research Logistics*, **2019**, 66, 174-190	1.5	1
117	Threshold Queueing to Describe the Fundamental Diagram of Uninterrupted Traffic. *Transportation Science*, **2019**, 53, 585-596	4.4	5

116	A critical review of laboratory performance indicators. *Critical Reviews in Clinical Laboratory Sciences*, **2019**, 56, 458-471	9.4	6
115	Minimizing Earliness/Tardiness costs on multiple machines with an application to surgery scheduling. *Operations Research for Health Care*, **2019**, 22, 100194	1.8	5
114	Estimating the potential of collaborating professionals, with an application to the Dutch film industry. *OR Spectrum*, **2018**, 40, 69-95	1.9	
113	Batch scheduling in the histopathology laboratory. *Flexible Services and Manufacturing Journal*, **2018**, 30, 171-197	1.8	4
112	Appointment scheduling with unscheduled arrivals and reprioritization. *Flexible Services and Manufacturing Journal*, **2018**, 30, 30-53	1.8	4
111	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
110	Multi-disciplinary planning in health care: a review. *Health Systems*, **2018**, 9, 95-118	2.3	20
109	Operations Research for Occupancy Modeling at Hospital Wards and Its Integration into Practice. *Profiles in Operations Research*, **2018**, 101-137	1	5
108	Integrated scheduling of tasks and gynecologists to improve patient appointment scheduling; a case study. *Operations Research for Health Care*, **2018**, 16, 10-19	1.8	3
107	Uniformization: Basics, extensions and applications. *Performance Evaluation*, **2018**, 118, 8-32	1.2	11
106	Static and dynamic appointment scheduling to improve patient access time. *Health Systems*, **2018**, 7, 148-159	2.3	3
105	Allocating Emergency Beds Improves the Emergency Admission Flow. *Interfaces*, **2018**, 48, 384-394	0.7	9
104	An interdiction game on a queueing network with multiple intruders. *European Journal of Operational Research*, **2017**, 260, 1069-1080	5.6	3
103	Transient detailed balance and product form for reaction networks. *Stochastic Models*, **2017**, 33, 322-341	0.5	
102	Stochastic Dynamic Programming for Noise Load Management. *Profiles in Operations Research*, **2017**, 321-335	1	
101	Shot-noise fluid queues and infinite-server systems with batch arrivals. *Performance Evaluation*, **2017**, 116, 143-155	1.2	2
100	On a tandem queue with batch service and its applications in wireless sensor networks. *Queueing Systems*, **2017**, 87, 81-93	1.7	4
99	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

98	Security Games with Probabilistic Constraints on the Agent Strategy. *Lecture Notes in Computer Science*, **2017**, 481-493	0.9	1
97	Assigning treatment rooms at the Emergency Department. *Operations Research for Health Care*, **2016**, 8, 62-70	1.8	2
96	Patient admission planning using Approximate Dynamic Programming. *Flexible Services and Manufacturing Journal*, **2016**, 28, 30-61	1.8	16
95	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
94	Energy-efficient data collection in wireless sensor networks with time constraints. *Performance Evaluation*, **2016**, 102, 34-52	1.2	12
93	Predicting turnaround time reductions of the diagnostic track in the histopathology laboratory using mathematical modelling. *Journal of Clinical Pathology*, **2016**, 69, 793-800	3.9	6
92	Offload zone patient selection criteria to reduce ambulance offload delay. *Operations Research for Health Care*, **2016**, 11, 13-19	1.8	6
91	Data retrieval time for energy-harvesting wireless sensor networks. *Ad Hoc Networks*, **2016**, 53, 32-40	4.8	3
90	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
89	Optimal query assignment for wireless sensor networks. *AEU - International Journal of Electronics and Communications*, **2015**, 69, 1102-1112	2.8	6
88	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
87	Appointments in care pathways: the (Geo^x/D/1) queue with slot reservations. *Queueing Systems*, **2015**, 79, 37-51	1.7	6
86	Modeling the effect of short stay units on patient admissions. *Operations Research for Health Care*, **2015**, 5, 21-27	1.8	9
85	Reducing access times for radiation treatment by aligning the doctor schemes. *Operations Research for Health Care*, **2015**, 7, 111-121	1.8	18
84	Flexible nurse staffing based on hourly bed census predictions. *International Journal of Production Economics*, **2015**, 161, 167-180	9.3	26
83	Blocking Probabilities in Erlang Loss Queues with Advance Reservation. *Stochastic Models*, **2014**, 30, 187-196	0.6	3
82	Designing cyclic appointment schedules for outpatient clinics with scheduled and unscheduled patient arrivals. *Performance Evaluation*, **2014**, 80, 5-26	1.2	29
81	Deployment Versus Data Retrieval Costs for Caches in the Plane. *IEEE Wireless Communications Letters*, **2014**, 3, 385-388	5.9	1

80	Optimizing the strategic patient mix combining queueing theory and dynamic programming. *Computers and Operations Research*, **2014**, 43, 271-279	4.6	11
79	Decentralized vs. centralized scheduling in wireless sensor networks for data fusion **2014**,		2
78	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
77	Appointment Planning in Outpatient Clinics and Diagnostic Facilities. *SpringerBriefs in Health Care Management and Economics*, **2014**,	0.8	3
76	Improving Clinic Operations. *SpringerBriefs in Health Care Management and Economics*, **2014**, 41-48	0.8	
75	The PH/PH/1 Multi-threshold Queue. *Lecture Notes in Computer Science*, **2014**, 95-109	0.9	
74	Mathematical Models for Appointment Planning. *SpringerBriefs in Health Care Management and Economics*, **2014**, 9-12	0.8	
73	Cooperation and game-theoretic cost allocation in stochastic inventory models with continuous review. *European Journal of Operational Research*, **2013**, 231, 567-576	5.6	17
72	Bottlenecks and stability in networks with contending nodes. *AEU - International Journal of Electronics and Communications*, **2013**, 67, 88-97	2.8	
71	Energy–delay tradeoff in a two-way relay with network coding. *Performance Evaluation*, **2013**, 70, 981-994	1.2	5
70	Tactical resource allocation and elective patient admission planning in care processes. *Health Care Management Science*, **2013**, 16, 152-66	4	37
69	Optimal deployment of caches in the plane **2013**,		4
68	Analytical models to determine room requirements in outpatient clinics. *OR Spectrum*, **2012**, 34, 391-405	1.9	12
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	Health care logistics and space: Accounting for the physical build environment **2012**,		3
65	Queuing Networks in Health Care Systems. *Profiles in Operations Research*, **2012**, 201-243	1	4
64	A - and -invariant characterization of product form and decomposition in stochastic Petri nets. *Performance Evaluation*, **2012**, 69, 573-599	1.2	2
63	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

62	Efficiency evaluation for pooling resources in health care. *OR Spectrum*, **2012**, 34, 371-390	1.9	37
61	Accounting for inpatient wards when developing master surgical schedules. *Anesthesia and Analgesia*, **2011**, 112, 1472-9	3.9	29
60	ORchestra: an online reference database of OR/MS literature in health care. *Health Care Management Science*, **2011**, 14, 383-4	4	18
59	An exact approach for relating recovering surgical patient workload to the master surgical schedule. *Journal of the Operational Research Society*, **2011**, 62, 1851-1860	2	45
58	Decomposition and Aggregation in Queueing Networks. *Profiles in Operations Research*, **2011**, 313-344	1	2
57	Planning and scheduling of semi-urgent surgeries. *Health Care Management Science*, **2010**, 13, 256-67	4	54
56	Monotonicity and error bounds for networks of Erlang loss queues. *Queueing Systems*, **2009**, 62, 159-193	1.7	4
55	A polling model with an autonomous server. *Queueing Systems*, **2009**, 62, 279-308	1.7	16
54	Energy consumption in coded queues for wireless information exchange **2009**,		8
53	Redesign of a university hospital preanesthesia evaluation clinic using a queuing theory approach. *Anesthesia and Analgesia*, **2009**, 109, 1612-21	3.9	30
52	Content-Based Routing in Networks with Time-Fluctuating Request Rates. *Lecture Notes in Computer Science*, **2009**, 75-90	0.9	
51	Managing the overflow of intensive care patients. *European Journal of Operational Research*, **2008**, 185, 998-1010	5.6	95
50	Throughputs in processor sharing models for integrated stream and elastic traffic. *Performance Evaluation*, **2008**, 65, 152-180	1.2	14
49	Analysis of a Polling System Modeling QoS Differentiation in WLANs **2008**,		3
48	A Tandem Queueing Model for Delay Analysis in Disconnected Ad Hoc Networks. *Lecture Notes in Computer Science*, **2008**, 189-205	0.9	9
47	Optimal Joint Rate and Power Allocation in CDMA Networks **2007**, 201-210		
46	An Upper Bound on Multi-hop Wireless Network Performance. *Lecture Notes in Computer Science*, **2007**, 335-347	0.9	1
45	The Impact of Interference on Optimal Multi-path Routing in Ad Hoc Networks. *Lecture Notes in Computer Science*, **2007**, 803-815	0.9	3

44	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
43	An analytical model for CDMA downlink rate optimization taking into account uplink coverage restrictions. *Performance Evaluation*, **2005**, 59, 225-246	1.2	3
42	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
41	Analysis of flow transfer times in IEEE 802.11 wireless LANs. *Annales Des Telecommunications/Annals of Telecommunications*, **2004**, 59, 1407-1432	2	10
40	Arrival first queueing networks with applications in kanban production systems. *Performance Evaluation*, **2003**, 51, 83-102	1.2	4
39	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
38	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
37	Transient handover blocking probabilities in road covering cellular mobile networks. *Computer Networks*, **2003**, 42, 537-550	5.4	3
36	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
35	Performance Analysis of Fair Channel Sharing Policies in an Integrated Cellular Voice/Data Network. *Telecommunication Systems*, **2002**, 19, 147-186	2.3	7
34	Blocking Probabilities in Mobile Communications Networks with Time-Varying Rates and Redialing Subscribers. *Annals of Operations Research*, **2002**, 112, 15-34	3.2	11
33	ON THE STRUCTURE OF THE SPACE OF GEOMETRIC PRODUCT-FORM MODELS. *Probability in the Engineering and Informational Sciences*, **2002**, 16, 241-270	0.6	2
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	2
31	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
30	Running times on railway sections with heterogeneous train traffic. *Transportation Research Part B: Methodological*, **2001**, 35, 271-292	7.2	68
29	NORTON'S THEOREM FOR BATCH ROUTING QUEUEING NETWORKS. *Stochastic Models*, **2001**, 17, 39-60	0.5	1
28	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
27	On a Queueing Network Model for Cellular Mobile Telecommunications Networks. *Operations Research*, **2000**, 48, 38-49	2.3	19

26	Estimation of performance measures for product form cellular mobile communications networks. *Telecommunication Systems*, **1998**, 10, 321-354	2.3	14
25	Norton's equivalent for queueing networks comprised of quasireversible components linked by state-dependent routing. *Performance Evaluation*, **1998**, 32, 83-99	1.2	8
24	On the arrival theorem for queueing networks operating under a just-in-time protocol. *Performance Evaluation*, **1998**, 34, 109-121	1.2	1
23	Norton's equivalent for batch routing queueing networks with independently routing customers. *Stochastic Models*, **1998**, 14, 1091-1112		2
22	Uniformization for Fpositive markov chains. *Stochastic Models*, **1998**, 14, 171-186		2
21	On closed support T-Invariants and the traffic equations. *Journal of Applied Probability*, **1998**, 35, 473-481	0.8	5
20	On closed support T-Invariants and the traffic equations. *Journal of Applied Probability*, **1998**, 35, 473-481	0.8	12
19	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
18	On the quasi-stationary distribution for queueing networks with defective routing **1997**, 38, 454-463		2
17	On the arrival theorem for product form queueing networks with blocking. *Performance Evaluation*, **1997**, 29, 155-176	1.2	14
16	Batch Routing Queueing Networks with Jump-Over Blocking. *Probability in the Engineering and Informational Sciences*, **1996**, 10, 287-297	0.6	4
15	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
14	Product forms based on backward traffic equations. *Journal of Applied Probability*, **1995**, 32, 508-518	0.8	3
13	Local balance in queueing networks with positive and negative customers. *Annals of Operations Research*, **1994**, 48, 463-492	3.2	18
12	. *IEEE Transactions on Software Engineering*, **1994**, 20, 536-544	3.5	42
11	A note on the transient behaviour of the engset loss model. *Stochastic Models*, **1993**, 9, 145-156		1
10	Aggregation of Markov chains. *Stochastic Processes and Their Applications*, **1993**, 45, 95-114	1.1	2
9	A generalization of Norton's theorem for queueing networks. *Queueing Systems*, **1993**, 13, 251-289	1.7	19

List of Publications

8	Transient product from distributions in queueing networks. *Discrete Event Dynamic Systems: Theory and Applications*, **1993**, 3, 375-396	1	13
7	Product forms for queueing networks with state-dependent multiple job transitions. *Advances in Applied Probability*, **1991**, 23, 152-187	0.7	32
6	Product forms for queueing networks with state-dependent multiple job transitions. *Advances in Applied Probability*, **1991**, 23, 152-187	0.7	58
5	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
4	Outpatient clinic scheduling with limited waiting area capacity. *Journal of the Operational Research Society*,1-22	2	4
3	A successive censoring algorithm for a system of connected LDQBD-processes. *Annals of Operations Research*,1	3.2	
2	Solving correlation clustering with QAOA and a Rydberg qudit system: a full-stack approach. *Quantum - the Open Journal for Quantum Science*,6, 687		0
1	Norton's theorem and insensitivity. *Queueing Systems*,1	1.7	