

# Richard Boucherie

## List of Publications by Citations

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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	Taxonomic classification of planning decisions in health care: a structured review of the state of the art in OR/MS. <i>Health Systems</i> , <b>2012</b> , 1, 129-175	2.3	229
132	Managing the overflow of intensive care patients. <i>European Journal of Operational Research</i> , <b>2008</b> , 185, 998-1010	5.6	95
131	Running times on railway sections with heterogeneous train traffic. <i>Transportation Research Part B: Methodological</i> , <b>2001</b> , 35, 271-292	7.2	68
130	Product forms for queueing networks with state-dependent multiple job transitions. <i>Advances in Applied Probability</i> , <b>1991</b> , 23, 152-187	0.7	58
129	Planning and scheduling of semi-urgent surgeries. <i>Health Care Management Science</i> , <b>2010</b> , 13, 256-67	4	54
128	The Workload in the M/G/1 Queue with Work Removal. <i>Probability in the Engineering and Informational Sciences</i> , <b>1996</b> , 10, 261-277	0.6	48
127	An exact approach for relating recovering surgical patient workload to the master surgical schedule. <i>Journal of the Operational Research Society</i> , <b>2011</b> , 62, 1851-1860	2	45
126	A solvable queueing network model for railway networks and its validation and applications for the Netherlands. <i>European Journal of Operational Research</i> , <b>2002</b> , 142, 30-51	5.6	42
125	. <i>IEEE Transactions on Software Engineering</i> , <b>1994</b> , 20, 536-544	3.5	42
124	A Note on Negative Customers, GI/G/1 Workload, and Risk Processes. <i>Probability in the Engineering and Informational Sciences</i> , <b>1997</b> , 11, 305-311	0.6	38
123	Efficiency evaluation for pooling resources in health care. <i>OR Spectrum</i> , <b>2012</b> , 34, 371-390	1.9	37
122	Tactical resource allocation and elective patient admission planning in care processes. <i>Health Care Management Science</i> , <b>2013</b> , 16, 152-66	4	37
121	Product forms for queueing networks with state-dependent multiple job transitions. <i>Advances in Applied Probability</i> , <b>1991</b> , 23, 152-187	0.7	32
120	Redesign of a university hospital preanesthesia evaluation clinic using a queueing theory approach. <i>Anesthesia and Analgesia</i> , <b>2009</b> , 109, 1612-21	3.9	30
119	Designing cyclic appointment schedules for outpatient clinics with scheduled and unscheduled patient arrivals. <i>Performance Evaluation</i> , <b>2014</b> , 80, 5-26	1.2	29
118	Accounting for inpatient wards when developing master surgical schedules. <i>Anesthesia and Analgesia</i> , <b>2011</b> , 112, 1472-9	3.9	29
117	Flexible nurse staffing based on hourly bed census predictions. <i>International Journal of Production Economics</i> , <b>2015</b> , 161, 167-180	9.3	26

116	Elastic calls in an integrated services network: the greater the call size variability the better the QoS. <i>Performance Evaluation</i> , <b>2003</b> , 52, 193-220	1.2	24
115	Multi-disciplinary planning in health care: a review. <i>Health Systems</i> , <b>2018</b> , 9, 95-118	2.3	20
114	On a Queueing Network Model for Cellular Mobile Telecommunications Networks. <i>Operations Research</i> , <b>2000</b> , 48, 38-49	2.3	19
113	A generalization of Norton's theorem for queueing networks. <i>Queueing Systems</i> , <b>1993</b> , 13, 251-289	1.7	19
112	Reducing access times for radiation treatment by aligning the doctor's schemes. <i>Operations Research for Health Care</i> , <b>2015</b> , 7, 111-121	1.8	18
111	ORchestra: an online reference database of OR/MS literature in health care. <i>Health Care Management Science</i> , <b>2011</b> , 14, 383-4	4	18
110	Local balance in queueing networks with positive and negative customers. <i>Annals of Operations Research</i> , <b>1994</b> , 48, 463-492	3.2	18
109	Spatial birth-death processes with multiple changes and applications to batch service networks and clustering processes. <i>Advances in Applied Probability</i> , <b>1990</b> , 22, 433-455	0.7	18
108	Cooperation and game-theoretic cost allocation in stochastic inventory models with continuous review. <i>European Journal of Operational Research</i> , <b>2013</b> , 231, 567-576	5.6	17
107	Patient admission planning using Approximate Dynamic Programming. <i>Flexible Services and Manufacturing Journal</i> , <b>2016</b> , 28, 30-61	1.8	16
106	A polling model with an autonomous server. <i>Queueing Systems</i> , <b>2009</b> , 62, 279-308	1.7	16
105	On the arrival theorem for product form queueing networks with blocking. <i>Performance Evaluation</i> , <b>1997</b> , 29, 155-176	1.2	14
104	Estimation of performance measures for product form cellular mobile communications networks. <i>Telecommunication Systems</i> , <b>1998</b> , 10, 321-354	2.3	14
103	Throughputs in processor sharing models for integrated stream and elastic traffic. <i>Performance Evaluation</i> , <b>2008</b> , 65, 152-180	1.2	14
102	Time-limited polling systems with batch arrivals and phase-type service times. <i>Annals of Operations Research</i> , <b>2012</b> , 198, 57-82	3.2	13
101	Insensitive bounds for the moments of the sojourn time distribution in the M/G/1 processor-sharing queue. <i>Queueing Systems</i> , <b>2006</b> , 53, 7-18	1.7	13
100	Transient product form distributions in queueing networks. <i>Discrete Event Dynamic Systems: Theory and Applications</i> , <b>1993</b> , 3, 375-396	1	13
99	Energy-efficient data collection in wireless sensor networks with time constraints. <i>Performance Evaluation</i> , <b>2016</b> , 102, 34-52	1.2	12

98	Analytical models to determine room requirements in outpatient clinics. <i>OR Spectrum</i> , <b>2012</b> , 34, 391-405.	1.9	12
97	On closed support T-Invariants and the traffic equations. <i>Journal of Applied Probability</i> , <b>1998</b> , 35, 473-481.	1.8	12
96	Integral resource capacity planning for inpatient care services based on bed census predictions by hour. <i>Journal of the Operational Research Society</i> , <b>2015</b> , 66, 1061-1076	2	11
95	Optimizing the strategic patient mix combining queueing theory and dynamic programming. <i>Computers and Operations Research</i> , <b>2014</b> , 43, 271-279	4.6	11
94	Blocking Probabilities in Mobile Communications Networks with Time-Varying Rates and Redialing Subscribers. <i>Annals of Operations Research</i> , <b>2002</b> , 112, 15-34	3.2	11
93	Uniformization: Basics, extensions and applications. <i>Performance Evaluation</i> , <b>2018</b> , 118, 8-32	1.2	11
92	Analysis of flow transfer times in IEEE 802.11 wireless LANs. <i>Annales Des Telecommunications/Annals of Telecommunications</i> , <b>2004</b> , 59, 1407-1432	2	10
91	Decomposing the queue length distribution of processor-sharing models into queue lengths of permanent customer queues. <i>Performance Evaluation</i> , <b>2005</b> , 62, 100-116	1.2	10
90	Modeling the effect of short stay units on patient admissions. <i>Operations Research for Health Care</i> , <b>2015</b> , 5, 21-27	1.8	9
89	A Tandem Queueing Model for Delay Analysis in Disconnected Ad Hoc Networks. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 189-205	0.9	9
88	Allocating Emergency Beds Improves the Emergency Admission Flow. <i>Interfaces</i> , <b>2018</b> , 48, 384-394	0.7	9
87	Energy consumption in coded queues for wireless information exchange <b>2009</b> ,		8
86	Norton's equivalent for queueing networks comprised of quasireversible components linked by state-dependent routing. <i>Performance Evaluation</i> , <b>1998</b> , 32, 83-99	1.2	8
85	Performance Analysis of Fair Channel Sharing Policies in an Integrated Cellular Voice/Data Network. <i>Telecommunication Systems</i> , <b>2002</b> , 19, 147-186	2.3	7
84	Optimal query assignment for wireless sensor networks. <i>AEU - International Journal of Electronics and Communications</i> , <b>2015</b> , 69, 1102-1112	2.8	6
83	Appointments in care pathways: the $(Geo^x/D/1)$ queue with slot reservations. <i>Queueing Systems</i> , <b>2015</b> , 79, 37-51	1.7	6
82	Invariant measures and error bounds for random walks in the quarter-plane based on sums of geometric terms. <i>Queueing Systems</i> , <b>2016</b> , 84, 21-48	1.7	6
81	A critical review of laboratory performance indicators. <i>Critical Reviews in Clinical Laboratory Sciences</i> , <b>2019</b> , 56, 458-471	9.4	6

80	Predicting turnaround time reductions of the diagnostic track in the histopathology laboratory using mathematical modelling. <i>Journal of Clinical Pathology</i> , <b>2016</b> , 69, 793-800	3.9	6
79	Offload zone patient selection criteria to reduce ambulance offload delay. <i>Operations Research for Health Care</i> , <b>2016</b> , 11, 13-19	1.8	6
78	Threshold Queueing to Describe the Fundamental Diagram of Uninterrupted Traffic. <i>Transportation Science</i> , <b>2019</b> , 53, 585-596	4.4	5
77	Minimizing Earliness/Tardiness costs on multiple machines with an application to surgery scheduling. <i>Operations Research for Health Care</i> , <b>2019</b> , 22, 100-114	1.8	5
76	Energy-delay tradeoff in a two-way relay with network coding. <i>Performance Evaluation</i> , <b>2013</b> , 70, 981-994	1.2	5
75	On closed support T-Invariants and the traffic equations. <i>Journal of Applied Probability</i> , <b>1998</b> , 35, 473-481	1.8	5
74	Real-time forecasting of COVID-19 bed occupancy in wards and Intensive Care Units. <i>Health Care Management Science</i> , <b>2021</b> , 24, 402-419	4	5
73	Operations Research for Occupancy Modeling at Hospital Wards and Its Integration into Practice. <i>Profiles in Operations Research</i> , <b>2018</b> , 101-137	1	5
72	THE INVARIANT MEASURE OF RANDOM WALKS IN THE QUARTER-PLANE: REPRESENTATION IN GEOMETRIC TERMS. <i>Probability in the Engineering and Informational Sciences</i> , <b>2015</b> , 29, 233-251	0.6	4
71	Batch scheduling in the histopathology laboratory. <i>Flexible Services and Manufacturing Journal</i> , <b>2018</b> , 30, 171-197	1.8	4
70	Appointment scheduling with unscheduled arrivals and reprioritization. <i>Flexible Services and Manufacturing Journal</i> , <b>2018</b> , 30, 30-53	1.8	4
69	On a tandem queue with batch service and its applications in wireless sensor networks. <i>Queueing Systems</i> , <b>2017</b> , 87, 81-93	1.7	4
68	Queueing Networks in Health Care Systems. <i>Profiles in Operations Research</i> , <b>2012</b> , 201-243	1	4
67	Optimal deployment of caches in the plane <b>2013</b> ,		4
66	Monotonicity and error bounds for networks of Erlang loss queues. <i>Queueing Systems</i> , <b>2009</b> , 62, 159-193	1.7	4
65	Arrival first queueing networks with applications in kanban production systems. <i>Performance Evaluation</i> , <b>2003</b> , 51, 83-102	1.2	4
64	Batch Routing Queueing Networks with Jump-Over Blocking. <i>Probability in the Engineering and Informational Sciences</i> , <b>1996</b> , 10, 287-297	0.6	4
63	Outpatient clinic scheduling with limited waiting area capacity. <i>Journal of the Operational Research Society</i> , 1-22	2	4

62	An interdiction game on a queueing network with multiple intruders. <i>European Journal of Operational Research</i> , <b>2017</b> , 260, 1069-1080	5.6	3
61	An exact root-free method for the expected queue length for a class of discrete-time queueing systems. <i>Queueing Systems</i> , <b>2019</b> , 92, 257-292	1.7	3
60	Blocking Probabilities in Erlang Loss Queues with Advance Reservation. <i>Stochastic Models</i> , <b>2014</b> , 30, 187-196	1.9	3
59	Rapid diagnoses at the breast center of Jeroen Bosch Hospital: a case study invoking queueing theory and discrete event simulation. <i>Health Systems</i> , <b>2017</b> , 6, 77-89	2.3	3
58	Appointment Planning in Outpatient Clinics and Diagnostic Facilities. <i>SpringerBriefs in Health Care Management and Economics</i> , <b>2014</b> ,	0.8	3
57	Health care logistics and space: Accounting for the physical build environment <b>2012</b> ,		3
56	On the distribution of calls in a wireless network driven by fluid traffic. <i>European Journal of Operational Research</i> , <b>2003</b> , 147, 146-155	5.6	3
55	Transient handover blocking probabilities in road covering cellular mobile networks. <i>Computer Networks</i> , <b>2003</b> , 42, 537-550	5.4	3
54	An analytical model for CDMA downlink rate optimization taking into account uplink coverage restrictions. <i>Performance Evaluation</i> , <b>2005</b> , 59, 225-246	1.2	3
53	Product forms based on backward traffic equations. <i>Journal of Applied Probability</i> , <b>1995</b> , 32, 508-518	0.8	3
52	The sojourn time distribution in an infinite server resequencing queue with dependent interarrival and service times. <i>Journal of Applied Probability</i> , <b>2002</b> , 39, 590-603	0.8	3
51	Analysis of a Polling System Modeling QoS Differentiation in WLANs <b>2008</b> ,		3
50	The Impact of Interference on Optimal Multi-path Routing in Ad Hoc Networks. <i>Lecture Notes in Computer Science</i> , <b>2007</b> , 803-815	0.9	3
49	Analysis of polling models with a self-ruling server. <i>Queueing Systems</i> , <b>2020</b> , 94, 77-107	1.7	3
48	Data retrieval time for energy-harvesting wireless sensor networks. <i>Ad Hoc Networks</i> , <b>2016</b> , 53, 32-40	4.8	3
47	ONLINE CAPACITY PLANNING FOR REHABILITATION TREATMENTS: AN APPROXIMATE DYNAMIC PROGRAMMING APPROACH. <i>Probability in the Engineering and Informational Sciences</i> , <b>2020</b> , 34, 381-405	0.6	3
46	Integrated scheduling of tasks and gynecologists to improve patient appointment scheduling; a case study. <i>Operations Research for Health Care</i> , <b>2018</b> , 16, 10-19	1.8	3
45	Static and dynamic appointment scheduling to improve patient access time. <i>Health Systems</i> , <b>2018</b> , 7, 148-159	2.3	3

44	Assigning treatment rooms at the Emergency Department. <i>Operations Research for Health Care</i> , <b>2016</b> , 8, 62-70	1.8	2
43	Shot-noise fluid queues and infinite-server systems with batch arrivals. <i>Performance Evaluation</i> , <b>2017</b> , 116, 143-155	1.2	2
42	An average case analysis of the minimum spanning tree heuristic for the power assignment problem. <i>Random Structures and Algorithms</i> , <b>2019</b> , 55, 89-103	0.8	2
41	Transient analysis for exponential time-limited polling models under the preemptive repeat random policy. <i>Advances in Applied Probability</i> , <b>2020</b> , 52, 32-60	0.7	2
40	Decentralized vs. centralized scheduling in wireless sensor networks for data fusion <b>2014</b> ,		2
39	A - and -invariant characterization of product form and decomposition in stochastic Petri nets. <i>Performance Evaluation</i> , <b>2012</b> , 69, 573-599	1.2	2
38	On the quasi-stationary distribution for queueing networks with defective routing <b>1997</b> , 38, 454-463		2
37	ON THE STRUCTURE OF THE SPACE OF GEOMETRIC PRODUCT-FORM MODELS. <i>Probability in the Engineering and Informational Sciences</i> , <b>2002</b> , 16, 241-270	0.6	2
36	The sojourn time distribution in an infinite server resequencing queue with dependent interarrival and service times. <i>Journal of Applied Probability</i> , <b>2002</b> , 39, 590-603	0.8	2
35	Norton's equivalent for batch routing queueing networks with independently routing customers. <i>Stochastic Models</i> , <b>1998</b> , 14, 1091-1112		2
34	Uniformization for $\mathbb{E}$ positive markov chains. <i>Stochastic Models</i> , <b>1998</b> , 14, 171-186		2
33	Aggregation of Markov chains. <i>Stochastic Processes and Their Applications</i> , <b>1993</b> , 45, 95-114	1.1	2
32	Decomposition and Aggregation in Queueing Networks. <i>Profiles in Operations Research</i> , <b>2011</b> , 313-344	1	2
31	Solving partially observable agent-intruder games with an application to border security problems. <i>Naval Research Logistics</i> , <b>2019</b> , 66, 174-190	1.5	1
30	A TWO-ECHELON SPARE PARTS NETWORK WITH LATERAL AND EMERGENCY SHIPMENTS: A PRODUCT-FORM APPROXIMATION. <i>Probability in the Engineering and Informational Sciences</i> , <b>2018</b> , 32, 536-555	0.6	1
29	Deployment Versus Data Retrieval Costs for Caches in the Plane. <i>IEEE Wireless Communications Letters</i> , <b>2014</b> , 3, 385-388	5.9	1
28	DELAY IN A TANDEM QUEUEING MODEL WITH MOBILE QUEUES: AN ANALYTICAL APPROXIMATION. <i>Probability in the Engineering and Informational Sciences</i> , <b>2014</b> , 28, 363-387	0.6	1
27	On the arrival theorem for queueing networks operating under a just-in-time protocol. <i>Performance Evaluation</i> , <b>1998</b> , 34, 109-121	1.2	1

26	ASYMPTOTIC EVALUATION OF BLOCKING PROBABILITIES IN A HIERARCHICAL CELLULAR MOBILE NETWORK. <i>Probability in the Engineering and Informational Sciences</i> , <b>2000</b> , 14, 81-99	0.6	1
25	NORTON'S THEOREM FOR BATCH ROUTING QUEUEING NETWORKS. <i>Stochastic Models</i> , <b>2001</b> , 17, 39-60	0.5	1
24	A note on the transient behaviour of the engset loss model. <i>Stochastic Models</i> , <b>1993</b> , 9, 145-156		1
23	An Upper Bound on Multi-hop Wireless Network Performance. <i>Lecture Notes in Computer Science</i> , <b>2007</b> , 335-347	0.9	1
22	Security Games with Probabilistic Constraints on the Agent's Strategy. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 481-493	0.9	1
21	Necessary conditions for the compensation approach for a random walk in the quarter-plane. <i>Queueing Systems</i> , <b>2020</b> , 94, 257-277	1.7	1
20	Theoretical and Practical Aspects of Outpatient Clinic Optimization. <i>Profiles in Operations Research</i> , <b>2021</b> , 25-36	1	1
19	Roots, Symmetry, and Contour Integrals in Queuing-Type Systems. <i>SIAM Journal on Applied Mathematics</i> , <b>2021</b> , 81, 2265-2295	1.8	0
18	Non-cooperative queueing games on a network of single server queues. <i>Queueing Systems</i> , <b>2021</b> , 97, 279-301	1.7	0
17	Solving correlation clustering with QAOA and a Rydberg qudit system: a full-stack approach. <i>Quantum - the Open Journal for Quantum Science</i> , 6, 687		0
16	Transient detailed balance and product form for reaction networks. <i>Stochastic Models</i> , <b>2017</b> , 33, 322-341	0.5	
15	Stochastic Dynamic Programming for Noise Load Management. <i>Profiles in Operations Research</i> , <b>2017</b> , 321-335	1	
14	Estimating the potential of collaborating professionals, with an application to the Dutch film industry. <i>OR Spectrum</i> , <b>2018</b> , 40, 69-95	1.9	
13	Bottlenecks and stability in networks with contending nodes. <i>AEU - International Journal of Electronics and Communications</i> , <b>2013</b> , 67, 88-97	2.8	
12	Optimal Joint Rate and Power Allocation in CDMA Networks <b>2007</b> , 201-210		
11	Content-Based Routing in Networks with Time-Fluctuating Request Rates. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 75-90	0.9	
10	Improving Clinic Operations. <i>SpringerBriefs in Health Care Management and Economics</i> , <b>2014</b> , 41-48	0.8	
9	The PH/PH/1 Multi-threshold Queue. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 95-109	0.9	



8	Mathematical Models for Appointment Planning. <i>SpringerBriefs in Health Care Management and Economics</i> , <b>2014</b> , 9-12	0.8
7	PERFORMANCE MEASURES FOR THE TWO-NODE QUEUE WITH FINITE BUFFERS. <i>Probability in the Engineering and Informational Sciences</i> , <b>2020</b> , 34, 522-549	0.6
6	Optimal deployment for anti-submarine operations with time-dependent strategies. <i>Journal of Defense Modeling and Simulation</i> , <b>2020</b> , 17, 419-434	0.4
5	Implementing Algorithms to Reduce Ward Occupancy Fluctuation Through Advanced Planning. <i>Profiles in Operations Research</i> , <b>2021</b> , 129-150	1
4	Bed Census Predictions and Nurse Staffing. <i>Profiles in Operations Research</i> , <b>2021</b> , 151-180	1
3	Robust Surgery Scheduling: A Model-Based Overview. <i>Profiles in Operations Research</i> , <b>2021</b> , 37-56	1
2	A successive censoring algorithm for a system of connected LDQBD-processes. <i>Annals of Operations Research</i> , 1	3.2
1	Norton's theorem and insensitivity. <i>Queueing Systems</i> , 1	1.7