

Bert

List of Publications by Year in descending order

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114
papers

1,706
citations

279798

23
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361022

35
g-index

115
all docs

115
docs citations

115
times ranked

835
citing authors

#	ARTICLE	IF	CITATIONS
1	A Fluid Model of an Electric Vehicle Charging Network. <i>Stochastic Systems</i> , 2022, 12, 151-180.	1.1	0
2	Large Fork-Join Queues with Nearly Deterministic Arrival and Service Times. <i>Mathematics of Operations Research</i> , 2022, 47, 1335-1364.	1.3	3
3	Optimization of Stochastic Lossy Transport Networks and Applications to Power Grids. <i>Stochastic Systems</i> , 2021, 11, 34-59.	1.1	2
4	Complete resource pooling of a load-balancing policy for a network of battery swapping stations. <i>Queueing Systems</i> , 2021, 99, 65-120.	0.9	3
5	Heavy traffic limit for the workload plateau process in a tandem queue with identical service times. <i>Stochastic Processes and Their Applications</i> , 2020, 130, 1435-1460.	0.9	0
6	Finite-time ruin probabilities under large-claim reinsurance treaties for heavy-tailed claim sizes. <i>Journal of Applied Probability</i> , 2020, 57, 513-530.	0.7	2
7	Heavy-Traffic Analysis of Sojourn Time Under the Foreground-Background Scheduling Policy. <i>Stochastic Systems</i> , 2020, 10, 1-28.	1.1	1
8	Sample path large deviations for Lévy processes and random walks with Weibull increments. <i>Annals of Applied Probability</i> , 2020, 30, .	1.3	4
9	Economies-of-Scale in Many-Server Queueing Systems: Tutorial and Partial Review of the QED Halfin-Whitt Heavy-Traffic Regime. <i>SIAM Review</i> , 2019, 61, 403-440.	9.5	47
10	Queue length asymptotics for the multiple-server queue with heavy-tailed Weibull service times. <i>Queueing Systems</i> , 2019, 93, 195-226.	0.9	4
11	Temperature Overloads in Power Grids Under Uncertainty: A Large Deviations Approach. <i>IEEE Transactions on Control of Network Systems</i> , 2019, 6, 1161-1173.	3.7	5
12	Bounds and limit theorems for a layered queueing model in electric vehicle charging. <i>Queueing Systems</i> , 2019, 93, 83-137.	0.9	9
13	A Stochastic Resource-Sharing Network for Electric Vehicle Charging. <i>IEEE Transactions on Control of Network Systems</i> , 2019, 6, 1050-1061.	3.7	13
14	Efficient Rare-Event Simulation for Multiple Jump Events in Regularly Varying Random Walks and Compound Poisson Processes. <i>Mathematics of Operations Research</i> , 2019, 44, 919-942.	1.3	12
15	The Impact of a Network Split on Cascading Failure Processes. <i>Stochastic Systems</i> , 2019, 9, 392-416.	1.1	0
16	Uniform asymptotics for compound Poisson processes with regularly varying jumps and vanishing drift. <i>Stochastic Processes and Their Applications</i> , 2019, 129, 572-603.	0.9	5
17	FLUID LIMIT OF A PS-QUEUE WITH MULTISTAGE SERVICE. <i>Probability in the Engineering and Informational Sciences</i> , 2019, 33, 1-27.	0.8	1
18	Sample path large deviations for Lévy processes and random walks with regularly varying increments. <i>Annals of Probability</i> , 2019, 47, .	1.8	9

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19	Achievable Performance of Blind Policies in Heavy Traffic. Mathematics of Operations Research, 2018, 43, 949-964.	1.3	8
20	Mitigation of large power spills by an energy storage device in a stand alone energy system. Journal of Energy Storage, 2018, 16, 76-83.	8.1	2
21	Heavy traffic limit for a tandem queue with identical service times. Queueing Systems, 2018, 89, 213-241.	0.9	17
22	Importance sampling of heavy-tailed iterated random functions. Advances in Applied Probability, 2018, 50, 805-832.	0.7	2
23	First-passage time asymptotics over moving boundaries for random walk bridges. Journal of Applied Probability, 2018, 55, 627-651.	0.7	2
24	Fluid flow models in performance analysis. Computer Communications, 2018, 131, 22-25.	5.1	6
25	Robust heavy-traffic approximations for service systems facing overdispersed demand. Queueing Systems, 2018, 90, 257-289.	0.9	7
26	Emergent Failures and Cascades in Power Grids: A Statistical Physics Perspective. Physical Review Letters, 2018, 120, 258301.	7.8	36
27	RARE EVENT ANALYSIS AND EFFICIENT SIMULATION FOR A MULTI-DIMENSIONAL RUIN PROBLEM. Probability in the Engineering and Informational Sciences, 2017, 31, 265-283.	0.8	1
28	The asymptotic hazard rate of sums of discrete random variables. Statistics and Probability Letters, 2017, 125, 171-173.	0.7	2
29	A call for exploratory data analysis in revenue management forecasting: a case study of a small and independent hotel in The Netherlands. International Journal of Revenue Management, 2017, 10, 28.	0.3	7
30	Transient error approximation in a $M^x/G/1$ queue. Queueing Systems, 2017, 85, 269-304.	0.9	1
31	Impact of network splitting on cascading failure blackouts. , 2017, , .		1
32	Line failure probability bounds for power grids. , 2017, , .		4
33	Electric vehicle charging. Performance Evaluation Review, 2017, 45, 33-35.	0.6	19
34	Minimizing heat loss in DC networks using batteries. , 2016, , .		3
35	A computational method for optimizing storage placement to maximize power network reliability. , 2016, , .		5
36	Provisioning of Large-Scale Systems: The Interplay Between Network Effects and Strategic Behavior in the User Base. Management Science, 2016, 62, 1830-1841.	4.1	20

#	ARTICLE	IF	CITATIONS
37	Dynamic Pricing and Learning with Finite Inventories. <i>Operations Research</i> , 2015, 63, 965-978.	1.9	72
38	Loss rates in the single-server queue with complete rejection. <i>Mathematical Methods of Operations Research</i> , 2015, 81, 299-315.	1.0	1
39	Heavy-traffic asymptotics for networks of parallel queues with Markov-modulated service speeds. <i>Queueing Systems</i> , 2015, 79, 293-319.	0.9	6
40	Random Fluid Limit of an Overloaded Polling Model. <i>Advances in Applied Probability</i> , 2014, 46, 76-101.	0.7	8
41	A Lévy input fluid queue with input and workload regulation. <i>Queueing Systems</i> , 2014, 76, 21-36.	0.9	1
42	Simultaneously Learning and Optimizing Using Controlled Variance Pricing. <i>Management Science</i> , 2014, 60, 770-783.	4.1	170
43	Limit Theorems for Markovian Bandwidth-Sharing Networks with Rate Constraints. <i>Operations Research</i> , 2014, 62, 1453-1466.	1.9	5
44	Fluid Limits for Bandwidth-Sharing Networks in Overload. <i>Mathematics of Operations Research</i> , 2014, 39, 533-560.	1.3	7
45	Fluid Limits for Bandwidth-Sharing Networks with Rate Constraints. <i>Mathematics of Operations Research</i> , 2014, 39, 746-774.	1.3	8
46	Random Fluid Limit of an Overloaded Polling Model. <i>Advances in Applied Probability</i> , 2014, 46, 76-101.	0.7	2
47	Refining piecewise stationary approximation for a Markov-regulated fluid queue. <i>Performance Evaluation Review</i> , 2014, 42, 15-17.	0.6	1
48	Corrected phase-type approximations of heavy-tailed risk models using perturbation analysis. <i>Insurance: Mathematics and Economics</i> , 2013, 53, 366-378.	1.2	10
49	Network iso-elasticity and weighted μ -fairness. <i>Performance Evaluation</i> , 2013, 70, 995-1000.	1.2	2
50	Parallel queueing networks with Markov-modulated service speeds in heavy traffic. <i>Performance Evaluation Review</i> , 2013, 41, 47-49.	0.6	3
51	Steady-State Analysis for Multiserver Queues Under Size Interval Task Assignment in the Quality-Driven Regime. <i>Mathematics of Operations Research</i> , 2013, 38, 504-525.	1.3	5
52	Asymptotics of Hybrid Fluid Queues with Lévy Input. <i>Journal of Applied Probability</i> , 2013, 50, 103-113.	0.7	0
53	Is Tail-Optimal Scheduling Possible?. <i>Operations Research</i> , 2012, 60, 1249-1257.	1.9	48
54	Staffing Call Centers with Impatient Customers: Refinements to Many-Server Asymptotics. <i>Operations Research</i> , 2012, 60, 461-474.	1.9	23

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55	Fluid limits for an ALOHA-type model with impatient customers. <i>Queueing Systems</i> , 2012, 72, 69-101.	0.9	2
56	Efficient rare-event simulation for perpetuities. <i>Stochastic Processes and Their Applications</i> , 2012, 122, 3361-3392.	0.9	6
57	Fluid models for many-server Markovian queues in a changing environment. <i>Operations Research Letters</i> , 2012, 40, 573-577.	0.7	8
58	Queueing models for a single machine subject to multiple types of interruptions. <i>IIE Transactions</i> , 2011, 43, 753-759.	2.1	30
59	Fixed-point approximations of bandwidth sharing networks with rate constraints. <i>Performance Evaluation Review</i> , 2011, 39, 47-49.	0.6	2
60	Refining Square-Root Safety Staffing by Expanding Erlang C. <i>Operations Research</i> , 2011, 59, 1512-1522.	1.9	47
61	Heavy-traffic analysis of mean response time under Shortest Remaining Processing Time. <i>Performance Evaluation</i> , 2011, 68, 955-966.	1.2	15
62	Time-dependent properties of symmetric queues. <i>Queueing Systems</i> , 2011, 67, 33-45.	0.9	4
63	Convergence of the all-time supremum of a Lévy process in the heavy-traffic regime. <i>Queueing Systems</i> , 2011, 67, 295-304.	0.9	7
64	A lower bound for the Erlang C formula in the Halfin-Whitt regime. <i>Queueing Systems</i> , 2011, 68, 361-363.	0.9	1
65	Sojourn time asymptotics in a parking lot network. <i>Mathematical Methods of Operations Research</i> , 2011, 74, 163-190.	1.0	1
66	Exploiting network effects in the provisioning of large scale systems. <i>Performance Evaluation Review</i> , 2011, 39, 26-28.	0.6	4
67	A piecewise linear stochastic differential equation driven by a Lévy process. <i>Journal of Applied Probability</i> , 2011, 48, 109-119.	0.7	4
68	Asymptotic expansions of defective renewal equations with applications to perturbed risk models and processor sharing queues. <i>Mathematical Methods of Operations Research</i> , 2010, 72, 311-326.	1.0	10
69	On the inapproximability of M/G/K: why two moments of job size distribution are not enough. <i>Queueing Systems</i> , 2010, 64, 5-48.	0.9	45
70	Tail-robust scheduling via limited processor sharing. <i>Performance Evaluation</i> , 2010, 67, 978-995.	1.2	29
71	On Perturbed Random Walks. <i>Journal of Applied Probability</i> , 2010, 47, 1203-1204.	0.7	5
72	The average response time in a heavy-traffic srt queue. <i>Performance Evaluation Review</i> , 2010, 38, 12-14.	0.6	7

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73	An extension of the square root law of TCP. <i>Annals of Operations Research</i> , 2009, 170, 217-232.	4.1	10
74	Law of Large Number Limits of Limited Processor-Sharing Queues. <i>Mathematics of Operations Research</i> , 2009, 34, 937-970.	1.3	24
75	Area Editor's Statement: Stochastic Models. <i>Operations Research</i> , 2009, 57, 1057-1057.	1.9	0
76	Steady state approximations of limited processor sharing queues in heavy traffic. <i>Queueing Systems</i> , 2008, 60, 227-246.	0.9	42
77	Large deviations perspective on ordinal optimization of heavy-tailed systems. , 2008, , .		3
78	Bandwidth-sharing in overloaded networks. , 2008, , .		6
79	Queueing models for single machine manufacturing systems with interruptions. , 2008, , .		4
80	Fluid Limits for Processor-Sharing Queues with Impatience. <i>Mathematics of Operations Research</i> , 2008, 33, 375-402.	1.3	41
81	Preventing Large Sojourn Times Using SMART Scheduling. <i>Operations Research</i> , 2008, 56, 88-101.	1.9	29
82	Compatibility of Queueing Theory, Manufacturing Systems and SEMI Standards. , 2007, , .		6
83	Importance sampling of compounding processes. , 2007, , .		4
84	Time-Dependent Behaviour of an Alternating Service Queue. <i>Stochastic Models</i> , 2007, 23, 235-263.	0.5	8
85	Bandwidth-sharing networks in overload. <i>Performance Evaluation</i> , 2007, 64, 978-993.	1.2	18
86	Tail behavior of conditional sojourn times in Processor-Sharing queues. <i>Queueing Systems</i> , 2007, 55, 107-121.	0.9	4
87	Sojourn time asymptotics in Processor Sharing queues with varying service rate. <i>Queueing Systems</i> , 2007, 56, 169-181.	0.9	4
88	Tails in scheduling. <i>Performance Evaluation Review</i> , 2007, 34, 13-20.	0.6	57
89	The effect of higher moments of job size distribution on the performance of an $M/G/s$ queueing system. <i>Performance Evaluation Review</i> , 2007, 35, 12-14.	0.6	5
90	On a Theorem of Breiman and a Class of Random Difference Equations. <i>Journal of Applied Probability</i> , 2007, 44, 1031-1046.	0.7	35

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91	Tail Asymptotics of the Supremum of a Regenerative Process. Journal of Applied Probability, 2007, 44, 349-365.	0.7	0
92	Large deviations of sojourn times in processor sharing queues. Queueing Systems, 2006, 52, 237-250.	0.9	34
93	Sojourn time asymptotics in processor-sharing queues. Queueing Systems, 2006, 53, 31-51.	0.9	36
94	A large-deviations analysis of the GI/GI/1 SRPT queue. Queueing Systems, 2006, 54, 85-97.	0.9	35
95	Tail asymptotics for exponential functionals of Lévy processes. Stochastic Processes and Their Applications, 2006, 116, 156-177.	0.9	99
96	SOJOURN TIME TAILS IN THE M/D/1 PROCESSOR SHARING QUEUE. Probability in the Engineering and Informational Sciences, 2006, 20, 429-446.	0.8	17
97	The impact of renegeing in processor sharing queues. Performance Evaluation Review, 2006, 34, 87-96.	0.6	8
98	Subexponential asymptotics of hybrid fluid and ruin models. Annals of Applied Probability, 2005, 15, 500.	1.3	20
99	Fluid Queues with Heavy-Tailed M/G/1 Input. Mathematics of Operations Research, 2005, 30, 852-879.	1.3	12
100	Reduced-load equivalence for Gaussian processes. Operations Research Letters, 2005, 33, 502-510.	0.7	6
101	Heavy-traffic asymptotics for the single-server queue with random order of service. Operations Research Letters, 2005, 33, 511-518.	0.7	5
102	A new generation of applied probability textbooks. Operations Research Letters, 2005, 33, 544-550.	0.7	1
103	Some Time-Dependent Properties of Symmetric M/G/1 Queues. Journal of Applied Probability, 2005, 42, 223-234.	0.7	6
104	ON AN EQUIVALENCE BETWEEN LOSS RATES AND CYCLE MAXIMA IN QUEUES AND DAMS. Probability in the Engineering and Informational Sciences, 2005, 19, 241-255.	0.8	16
105	Exact asymptotics for fluid queues fed by multiple heavy-tailed on/off flows. Annals of Applied Probability, 2004, 14, 903.	1.3	26
106	Reduced Load Equivalence under Subexponentiality. Queueing Systems, 2004, 46, 97-112.	0.9	18
107	Bandwidth sharing with heterogeneous flow sizes. Annales Des Telecommunications/Annals of Telecommunications, 2004, 59, 1300-1314.	2.5	3
108	The supremum of a Gaussian process over a random interval. Statistics and Probability Letters, 2004, 68, 221-234.	0.7	17

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109	AIMD algorithms and exponential functionals. Annals of Applied Probability, 2004, 14, 90.	1.3	63
110	Tail asymptotics for processor-sharing queues. Advances in Applied Probability, 2004, 36, 525-543.	0.7	32
111	A reduced-peak equivalence for queues with a mixture of light-tailed and heavy-tailed input flows. Advances in Applied Probability, 2003, 35, 793-805.	0.7	4
112	A TANDEM FLUID QUEUE WITH GRADUAL INPUT. Probability in the Engineering and Informational Sciences, 2002, 16, 29-45.	0.8	6
113	On the relationship between travel time and travel distance of commuters. Annals of Regional Science, 1999, 33, 269-287.	2.1	80
114	Conjectures on symmetric queues in heavy traffic. Queueing Systems, 0, , 1.	0.9	0