Ward Whitt

List of Publications by Citations

370 papers	16,706 citations	67 h-index	112 g-index
383 ext. papers	18,803 ext. citations	1.8 avg, IF	7.14 L-index

#	Paper	IF	Citations
370	Stochastic-Process Limits. *Springer Series in Operations Research*, **2002**,	1.8	679
369	Heavy-Traffic Limits for Queues with Many Exponential Servers. *Operations Research*, **1981**, 29, 567-588	2.3	502
368	The Fourier-series method for inverting transforms of probability distributions. *Queueing Systems*, **1992**, 10, 5-87	1.7	453
367	Characterizing Superposition Arrival Processes in Packet Multiplexers for Voice and Data. *IEEE Journal on Selected Areas in Communications*, **1986**, 4, 833-846	14.2	451
366	Numerical Inversion of Laplace Transforms of Probability Distributions. *ORSA Journal on Computing*, **1995**, 7, 36-43		436
365	Approximating a Point Process by a Renewal Process, I: Two Basic Methods. *Operations Research*, **1982**, 30, 125-147	2.3	379
364	Multiple channel queues in heavy traffic. I. *Advances in Applied Probability*, **1970**, 2, 150-177	0.7	279
363	A Unified Framework for Numerically Inverting Laplace Transforms. *INFORMS Journal on Computing* , **2006**, 18, 408-421	2.4	271
362	Fitting mixtures of exponentials to long-tail distributions to analyze network performance models. *Performance Evaluation*, **1998**, 31, 245-279	1.2	253
361	Some Useful Functions for Functional Limit Theorems. *Mathematics of Operations Research*, **1980**, 5, 67-85	1.5	246
360	APPROXIMATIONS FOR THE GI/G/m QUEUE. *Production and Operations Management*, **2009**, 2, 114-161	3.6	208
359	Multiple channel queues in heavy traffic. II: sequences, networks, and batches. *Advances in Applied Probability*, **1970**, 2, 355-369	0.7	197
358	Blocking when service is required from several facilities simultaneously. *At&T Technical Journal*, **1985**, 64, 1807-1856		196
357	Deciding Which Queue to Join: Some Counterexamples. *Operations Research*, **1986**, 34, 55-62	2.3	189
356	Coping with Time-Varying Demand When Setting Staffing Requirements for a Service System. *Production and Operations Management*, **2007**, 16, 13-39	3.6	181
355	Fluid Models for Multiserver Queues with Abandonments. *Operations Research*, **2006**, 54, 37-54	2.3	170
354	The Physics of the Mt/G/∞ Queue. *Operations Research*, **1993**, 41, 731-742	2.3	161

281	Uniform acceleration expansions for Markov chains with time-varying rates. *Annals of Applied Probability*, **1998**, 8,	2	50
280	Approximations for departure processes and queues in series. *Naval Research Logistics Quarterly*, **1984**, 31, 499-521		50
279	Multiple channel queues in heavy traffic. I. *Advances in Applied Probability*, **1970**, 2, 150-177	0.7	50
278	Indirect Estimation ViaL= λW. *Operations Research*, **1989**, 37, 82-103	2.3	48
277	Portfolio choice and the Bayesian Kelly criterion. *Advances in Applied Probability*, **1996**, 28, 1145-1176	0.7	47
276	Estimating the parameters of a nonhomogeneous Poisson process with linear rate. *Telecommunication Systems*, **1996**, 5, 361-388	2.3	47
275	The Best Order for Queues in Series. *Management Science*, **1985**, 31, 475-487	3.9	47
274	Weak convergence theorems for priority queues: preemptive-resume discipline. *Journal of Applied Probability*, **1971**, 8, 74-94	0.8	47
273	Two-parameter heavy-traffic limits for infinite-server queues. *Queueing Systems*, **2010**, 65, 325-364	1.7	46
272	Estimating the asymptotic variance with batch means. *Operations Research Letters*, **1991**, 10, 431-435	1	46
271	On Approximations for Queues, III: Mixtures of Exponential Distributions. *At&T Bell Laboratories Technical Journal*, **1984**, 63, 163-175		46
270	An algorithm to compute blocking probabilities in multi-rate multi-class multi-resource loss models. *Advances in Applied Probability*, **1995**, 27, 1104-1143	0.7	45
269	The Efficiency of One Long Run Versus Independent Replications in Steady-State Simulation. *Management Science*, **1991**, 37, 645-666	3.9	45
268	Comparing counting processes and queues. *Advances in Applied Probability*, **1981**, 13, 207-220	0.7	45
267	Queues with Server Vacations and Levy Processes with Secondary Jump Input. *Annals of Applied Probability*, **1991**, 1,	2	45
266	Partitioning Customers into Service Groups. *Management Science*, **1999**, 45, 1579-1592	3.9	44
265	Transient Behavior of the M/G/1 Workload Process. *Operations Research*, **1994**, 42, 750-764	2.3	44
264	Approximating a Point Process by a Renewal Process: The View Through a Queue, an Indirect Approach. *Management Science*, **1981**, 27, 619-636	3.9	43

263	Real-Time Delay Estimation in Overloaded Multiserver Queues with Abandonments. *Management Science*, **2009**, 55, 1729-1742	3.9	42
262	The asymptotic behavior o queues with time-varying arrival rates. *Journal of Applied Probability*, **1984**, 21, 143-156	0.8	42
261	Variability Functions for Parametric-Decomposition Approximations of Queueing Networks. *Management Science*, **1995**, 41, 1704-1715	3.9	41
260	An Interpolation Approximation for the Mean Workload in a GI/G/1 Queue. *Operations Research*, **1989**, 37, 936-952	2.3	41
259	Multivariate monotone likelihood ratio and uniform conditional stochastic order. *Journal of Applied Probability*, **1982**, 19, 695-701	0.8	41
258	The asymptotic variance of departures in critically loaded queues. *Advances in Applied Probability*, **2011**, 43, 243-263	0.7	41
257	Real-Time Delay Estimation Based on Delay History. *Manufacturing and Service Operations Management*, **2009**, 11, 397-415	4.6	40
256	Wait-Time Predictors for Customer Service Systems with Time-Varying Demand and Capacity. *Operations Research*, **2011**, 59, 1106-1118	2.3	40
255	Asymptotic Formulas for Markov Processes with Applications to Simulation. *Operations Research*, **1992**, 40, 279-291	2.3	40
254	Refining diffusion approximations for queues. *Operations Research Letters*, **1982**, 1, 165-169	1	40
253	Optimal battery purchasing and charging strategy at electric vehicle battery swap stations. *European Journal of Operational Research*, **2019**, 279, 524-539	5.6	39
252	Computing distributions and moments in polling models by numerical transform inversion. *Performance Evaluation*, **1996**, 25, 267-292	1.2	39
251	A Stochastic Model to Capture Space and time Dynamics in Wireless Communication Systems. *Probability in the Engineering and Informational Sciences*, **1994**, 8, 541-569	0.6	39
250	Ordinary CLT and WLLN Versions of $L = \lambda W$. *Mathematics of Operations Research*, **1988**, 13, 674-692	1.5	39
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245	Untold Horrors of the Waiting Room: What the Equilibrium Distribution Will Never Tell About the Queue-Length Process. *Management Science*, **1983**, 29, 395-408	3.9	37
244	On Approximations for Queues, I: Extremal Distributions. *At&T Bell Laboratories Technical Journal*, **1984**, 63, 115-138		37
243	A Network of Time-Varying Many-Server Fluid Queues with Customer Abandonment. *Operations Research*, **2011**, 59, 835-846	2.3	36
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241	Transient behavior of the M/M/1 queue via Laplace transforms. *Advances in Applied Probability*, **1988**, 20, 145-178	0.7	36
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233	The impact of a heavy-tailed service-time distribution upon the M/GI/s waiting-time distribution. *Queueing Systems*, **2000**, 36, 71-87	1.7	34
232	Sensitivity to the Service-Time Distribution in the Nonstationary Erlang Loss Model. *Management Science*, **1995**, 41, 1107-1116	3.9	34
231	Solving probability transform functional equations for numerical inversion. *Operations Research Letters*, **1992**, 12, 275-281	1	34
230	Transient behavior of regulated Brownian motion, II: Non-zero initial conditions. *Advances in Applied Probability*, **1987**, 19, 599-631	0.7	34
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167	Asymptotic Analysis of Tail Probabilities Based on the Computation of Moments. *Annals of Applied Probability*, **1995**, 5, 983	2	19
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146	Approximate blocking probabilities in loss models with independence and distribution assumptions relaxed. *Performance Evaluation*, **2014**, 80, 82-101	1.2	15
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