Peter Harrison

List of Publications by Year
in descending order

80 papers	985 citations	430442 18 h-index	525886 27 g-index
82 all docs	82 docs citations	82 times ranked	367 citing authors

#	Article	IF	Citations
1	SPADES - a process algebra for discrete event simulation. Journal of Logic and Computation, 2000, 10, 3-42.	0.5	78
2	Compositional reversed Markov processes, with applications to G-networks. Performance Evaluation, 2004, 57, 379-408.	0.9	56
3	Technical Note—On Normalizing Constants in Queueing Networks. Operations Research, 1985, 33, 464-468.	1.2	40
4	Reliability modelling using G-queues. European Journal of Operational Research, 2000, 126, 273-287.	3.5	39
5	Uniformization and hypergraph partitioning for the distributed computation of response time densities in very large Markov models. Journal of Parallel and Distributed Computing, 2004, 64, 908-920.	2.7	37
6	Methodological construction of product-form stochastic Petri nets for performance evaluation. Journal of Systems and Software, 2012, 85, 1520-1539.	3.3	37
7	Laplace transform inversion and passage-time distributions in Markov processes. Journal of Applied Probability, 1990, 27, 74-87.	0.4	35
8	Reversed processes, product forms and a non-product form. Linear Algebra and Its Applications, 2004, 386, 359-381.	0.4	34
9	Queueing models of RAID systems with maxima of waiting times. Performance Evaluation, 2007, 64, 664-689.	0.9	33
10	A Markov modulated multi-server queue with negative customers – The MM CPP/GE/c/L G-queue. Acta Informatica, 2001, 37, 881-919.	0.5	32
11	Exploiting Quasi-reversible Structures in Markovian Process Algebra Models. Computer Journal, 1995, 38, 510-520.	1.5	28
12	A probabilistic dynamic technique for the distributed generation of very large state spaces. Performance Evaluation, 2000, 39, 127-148.	0.9	28
13	Analysis of stochastic Petri nets with signals. Performance Evaluation, 2012, 69, 551-572.	0.9	28
14	Beyond the mean in fork-join queues: Efficient approximation for response-time tails. Performance Evaluation, 2015, 91, 99-116.	0.9	25
15	Transient behaviour of queueing networks. Journal of Applied Probability, 1981, 18, 482-490.	0.4	24
16	Response time distributions in tandem G-networks. Journal of Applied Probability, 1995, 32, 224-246.	0.4	22
17	Queueing Models with Maxima of Service Times. Lecture Notes in Computer Science, 2003, , 152-168.	1.0	19
18	Network traffic behaviour in switched Ethernet systems. Performance Evaluation, 2004, 58, 243-260.	0.9	19

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19	Product-Forms in Multi-Way Synchronizations. Computer Journal, 2014, 57, 1693-1710.	1.5	18
20	Blending randomness in closed queueing network models. Performance Evaluation, 2014, 82, 15-38.	0.9	17
21	On the synthesis of function inverses. Acta Informatica, 1992, 29, 211-239.	0.5	15
22	Storage workload modelling by hidden Markov models: Application to Flash memory. Performance Evaluation, 2012, 69, 17-40.	0.9	15
23	Linearisation: An optimisation for nonlinear functional programs. Science of Computer Programming, 1988, 10, 281-318.	1.5	14
24	Product-forms and functional rates. Performance Evaluation, 2009, 66, 660-663.	0.9	14
25	A Higher-Order Approach to Parallel Algorithms. Computer Journal, 1992, 35, 555-566.	1.5	12
26	On the asymptotic behaviour of closed multiclass queueing networks. Performance Evaluation, 2002, 47, 131-138.	0.9	12
27	An approximate compositional approach to the analysis of fluid queue networks. Performance Evaluation, 2007, 64, 1137-1152.	0.9	12
28	A Functional Programming environment supporting execution, partial execution and transformation. Lecture Notes in Computer Science, 1989, , 286-305.	1.0	12
29	The MM CPP/GE/c G-Queue: Sojourn Time Distribution. Queueing Systems, 2002, 41, 271-298.	0.6	11
30	A note on cycle times in tree-like queueing networks. Advances in Applied Probability, 1984, 16, 216-219.	0.4	10
31	Response time distribution of flash memory accesses. Performance Evaluation, 2010, 67, 248-259.	0.9	10
32	Controlling Variability in Split-Merge Systems. Lecture Notes in Computer Science, 2012, , 165-177.	1.0	10
33	The MMCPP/GE/c Queue. Queueing Systems, 2001, 38, 307-326.	0.6	9
34	Distributed computation of transient state distributions and passage time quantiles in large semi-Markov models. Future Generation Computer Systems, 2006, 22, 828-837.	4.9	9
35	A unifying approach to product-forms in networks with finite capacity constraints. Performance Evaluation Review, 2010, 38, 25-36.	0.4	9
36	Adapting Hidden Markov Models for Online Learning. Electronic Notes in Theoretical Computer Science, 2015, 318, 109-127.	0.9	9

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37	Approximating closed fork-join queueing networks using product-form stochastic Petri-nets. Journal of Systems and Software, 2015, 110, 264-278.	3.3	9
38	Cutting Latency Tail: Analyzing and Validating Replication without Canceling. IEEE Transactions on Parallel and Distributed Systems, 2017, 28, 3128-3141.	4.0	9
39	Efficient compilation of linear recursive functions into object level loops. , 1986, , .		8
40	An approximate analysis of asynchronous, packet-switched buffered banyan networks with blocking. Performance Evaluation, 1994, 19, 223-258.	0.9	8
41	Controlling variability in split–merge systems and its impact on performance. Annals of Operations Research, 2016, 239, 569-588.	2.6	8
42	Calibration of a Queueing Model of RAID Systems. Electronic Notes in Theoretical Computer Science, 2005, 128, 145-164.	0.9	7
43	Product-forms in batch networks: Approximation and asymptotics. Performance Evaluation, 2013, 70, 822-840.	0.9	7
44	The Distribution of Cycle Times in Tree-Like Networks of Queues. Computer Journal, 1984, 27, 27-36.	1.5	6
45	The Mechanical Transformation of Data Types. Computer Journal, 1992, 35, 138-147.	1.5	6
46	G-networks with propagating resets via RCAT. Performance Evaluation Review, 2003, 31, 3-5.	0.4	6
47	Process Algebraic Non-product-forms. Electronic Notes in Theoretical Computer Science, 2006, 151, 61-76.	0.9	6
48	On hot-spot contention in interconnection networks. Performance Evaluation Review, 1988, 16, 114-123.	0.4	6
49	Analytic models for multistage interconnection networks. Journal of Parallel and Distributed Computing, 1991, 12, 357-369.	2.7	5
50	Pipelines for Divide-and-Conquer Functions. Computer Journal, 1993, 36, 254-268.	1.5	5
51	Stochastic Ambient Calculus. Electronic Notes in Theoretical Computer Science, 2006, 164, 169-186.	0.9	5
52	Algebraic Transformation Techniques for Functional Languages. Computer Journal, 1988, 31, 229-242.	1.5	4
53	A new blocking problem from Java-based schedulers. Performance Evaluation, 2003, 51, 229-246.	0.9	4
54	Capacity planning in client - server systems. Distributed Systems Engineering, 1996, 3, 32-38.	0.6	3

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55	Mean-variance performance optimization of response time in a tandem router network with batch arrivals. Cluster Computing, 2007, 10, 203-216.	3.5	3
56	Turning Back Time--What Impact on Performance?. Computer Journal, 2010, 53, 860-868.	1.5	3
57	Fluid level in a reservoir with an on-off source. Performance Evaluation Review, 2008, 36, 128-130.	0.4	3
58	Busy periods in fluid queues with multiple emptying input states. Journal of Applied Probability, 2010, 47, 474-497.	0.4	3
59	Efficient table-driven implementation of the finite state machine. Journal of Systems and Software, 1981, 2, 201-211.	3.3	2
60	Efficient Storage Management for Functional Languages. Computer Journal, 1982, 25, 264-271.	1.5	2
61	On the expansion of non-linear functions. Acta Informatica, 1991, 28, 559-574.	0.5	2
62	Waiting time distribution in a class of discrete-time cyclic service multi-queue systems. Performance Evaluation, 1997, 29, 223-243.	0.9	2
63	Sojourn times in a random queue with and without preemption. European Journal of Operational Research, 1999, 112, 646-653.	3.5	2
64	Bus Modelling in Zoned Disks RAID Storage Systems. Electronic Notes in Theoretical Computer Science, 2009, 232, 5-16.	0.9	2
65	Product-form approximation of queueing networks with phase-type service. Performance Evaluation Review, 2012, 39, 36-36.	0.4	2
66	Facilitating load-dependent queueing analysis through factorization. Performance Evaluation, 2021, 152, 102241.	0.9	2
67	Performance modelling of parallel computer architectures. Performance Evaluation Review, 1986, 14, 18-27.	0.4	1
68	Transformation of polynomial evaluation to a pipeline via Horner's rule. Science of Computer Programming, 1995, 24, 83-95.	1.5	1
69	Approximate analysis of a network of fluid queues. Performance Evaluation Review, 2007, 35, 30-32.	0.4	1
70	Investigating Flash memory wear levelling and execution modes. Simulation, 2011, 87, 1081-1091.	1.1	1
71	A class of tractable models for run-time performance evaluation. , 2012, , .		1
72	Novel Solutions for Closed Queueing Networks with Load-Dependent Stations. Performance Evaluation Review, 2019, 47, 30-32.	0.4	1

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73	A semi-product-form for a pair of queues with finite batches: Equilibrium state probabilities and response time densities. Performance Evaluation, 2020, 143, 102120.	0.9	1
74	Performance Engineering and Stochastic Modelling. Lecture Notes in Computer Science, 2005, , 1-14.	1.0	1
75	System conventions for non procedural languages. Computer Journal, 1980, 23, 132-141.	1.5	0
76	Efficient compilation of linear recursive functions into object level loops. ACM SIGPLAN Notices, 1986, 21, 207-218.	0.2	0
77	Sojourn time distributions in tandem batch-networks. Performance Evaluation Review, 2014, 41, 37-39.	0.4	0
78	Hierarchically constructed Petri-nets and product-forms. , 2011, , .		0
79	Deriving the rate equations characterising product-form models and application to propagating synchronisations. , 2012, , .		0
80	Higher response time moments for M/M/1 discriminatory processor sharing queues. , 2016, , .		0