

Peter G Taylor

List of Publications by Year in descending order

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138
papers

2,748
citations

218592

26
h-index

223716

46
g-index

142
all docs

142
docs citations

142
times ranked

1380
citing authors

#	ARTICLE	IF	CITATIONS
1	Citation Statistics. <i>Statistical Science</i> , 2009, 24, .	1.6	217
2	Calculating the equilibrium distribution in level dependent quasi-birth-and-death processes. <i>Stochastic Models</i> , 1995, 11, 497-525.	0.3	211
3	Bitcoin blockchain dynamics: The selfish-mine strategy in the presence of propagation delay. <i>Performance Evaluation</i> , 2016, 104, 23-41.	0.9	173
4	Brownian ratchets and Parrondo's games. <i>Chaos</i> , 2001, 11, 705-714.	1.0	93
5	Product form in networks of queues with batch arrivals and batch services. <i>Queueing Systems</i> , 1990, 6, 71-87.	0.6	92
6	Some properties of the rate perators in level dependent uasi-birth-and-death processes with countable number of phases. <i>Stochastic Models</i> , 1996, 12, 143-164.	0.3	80
7	Hitting probabilities and hitting times for stochastic fluid flows. <i>Stochastic Processes and Their Applications</i> , 2005, 115, 1530-1556.	0.4	65
8	ALGORITHMS FOR RETURN PROBABILITIES FOR STOCHASTIC FLUID FLOWS. <i>Stochastic Models</i> , 2005, 21, 149-184.	0.3	65
9	Waiting time distributions in the accumulating priority queue. <i>Queueing Systems</i> , 2014, 77, 297-330.	0.6	64
10	The paradox of Parrondo's games. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2000, 456, 247-259.	1.0	62
11	Closed queueing networks with batch services. <i>Queueing Systems</i> , 1990, 6, 59-70.	0.6	59
12	A net level performance analysis of stochastic Petri nets. <i>Journal of the Australian Mathematical Society Series B Applied Mathematics</i> , 1989, 31, 176-187.	0.3	56
13	Spectral properties of the tandem Jackson network, seen as a quasi-birth-and-death process. <i>Annals of Applied Probability</i> , 2004, 14, 2057.	0.6	56
14	Embedded processes in stochastic Petri nets. <i>IEEE Transactions on Software Engineering</i> , 1991, 17, 108-116.	4.3	52
15	Myths of ideal hospital occupancy. <i>Medical Journal of Australia</i> , 2010, 192, 42-43.	0.8	48
16	A Geometric Product-Form Distribution for a Queueing Network by Non-Standard Batch Arrivals and Batch Transfers. <i>Advances in Applied Probability</i> , 1997, 29, 523-544.	0.4	42
17	Some new results on queueing networks with batch movement. <i>Journal of Applied Probability</i> , 1991, 28, 409-421.	0.4	39
18	Algorithms for the Laplace-Stieltjes Transforms of First Return Times for Stochastic Fluid Flows. <i>Methodology and Computing in Applied Probability</i> , 2008, 10, 381-408.	0.7	39

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19	Modeling Handovers in Cellular Mobile Networks with Dynamic Channel Allocation. Operations Research, 1995, 43, 33-42.	1.2	38
20	Product form equilibrium distributions and a convolution algorithm for stochastic Petri nets. Performance Evaluation, 1996, 26, 159-180.	0.9	34
21	Geometric equilibrium distributions for queues with interactive batch departures. Annals of Operations Research, 1994, 48, 493-511.	2.6	32
22	Truncation and augmentation of level-independent QBD processes. Stochastic Processes and Their Applications, 2002, 99, 53-80.	0.4	31
23	Markovian trees: properties and algorithms. Annals of Operations Research, 2008, 160, 31-50.	2.6	31
24	Characterization of Matrix-Exponential Distributions. Stochastic Models, 2008, 24, 339-363.	0.3	30
25	A multi-class multi-server accumulating priority queue with application to health care. Operations Research for Health Care, 2014, 3, 73-79.	0.8	30
26	A stochastic fluid model for an ad hoc mobile network. Queueing Systems, 2009, 63, 109-129.	0.6	28
27	An operator analytic approach to product-farm networks. Stochastic Models, 1996, 12, 121-142.	0.3	27
28	HITTING PROBABILITIES AND HITTING TIMES FOR STOCHASTIC FLUID FLOWS: THE BOUNDED MODEL. Probability in the Engineering and Informational Sciences, 2009, 23, 121-147.	0.6	27
29	A sequential stochastic mixed integer programming model for tactical master surgery scheduling. European Journal of Operational Research, 2018, 270, 734-746.	3.5	27
30	The quasi-stationary behavior of quasi-birth-and-death processes. Annals of Applied Probability, 1997, 7, .	0.6	27
31	State-dependent signalling in queueing networks. Advances in Applied Probability, 1994, 26, 436-455.	0.4	25
32	A two-time-scale model for hospital patient flow. IMA Journal of Management Mathematics, 2005, 16, 197-215.	1.1	25
33	Invariant measures for quasi-birth-and-death processes. Stochastic Models, 1998, 14, 443-460.	0.3	24
34	Predicting overflow in an emergency department. IMA Journal of Management Mathematics, 2007, 20, 39-49.	1.1	22
35	Transient Markov arrival processes. Annals of Applied Probability, 2003, 13, .	0.6	22
36	Quasistationary distributions for level-dependent quasi-birth-and-death processes. Stochastic Models, 2000, 16, 511-541.	0.3	21

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37	Performance Analysis of Resource Selection Schemes for a Large Scale Video-on-Demand System. IEEE Transactions on Multimedia, 2008, 10, 153-159.	5.2	21
38	Transient product from distributions in queueing networks. Discrete Event Dynamic Systems: Theory and Applications, 1993, 3, 375-396.	0.6	20
39	Level phase independence for GI/M/1-type Markov chains. Journal of Applied Probability, 2000, 37, 984-998.	0.4	20
40	The spatial distribution of rainfall extremes and the influence of El Niño Southern Oscillation. Weather and Climate Extremes, 2017, 18, 17-28.	1.6	20
41	Parrondo's paradoxical games and the discrete Brownian ratchet. AIP Conference Proceedings, 2000, , .	0.3	19
42	A lightning-caused wildfire ignition forecasting model for operational use. Agricultural and Forest Meteorology, 2018, 253-254, 233-246.	1.9	19
43	On the Problem of Establishing the Existence of Stationary Distributions for Continuous-Time Markov Chains. Probability in the Engineering and Informational Sciences, 1993, 7, 529-543.	0.6	18
44	Approximation of performance measures in cellular mobile networks with dynamic channel allocation. Telecommunication Systems, 1994, 3, 129-163.	1.6	18
45	A survey of parameter and state estimation in queues. Queueing Systems, 2021, 97, 39-80.	0.6	18
46	On the Inverse of Erlang's Function. Journal of Applied Probability, 1998, 35, 246-252.	0.4	18
47	Triggered batch movement in queueing networks. Queueing Systems, 1995, 21, 125-141.	0.6	16
48	Decay rates for quasi-birth-and-death processes with countably many phases and tridiagonal block generators. Advances in Applied Probability, 2006, 38, 522-544.	0.4	16
49	Procrustes based metrics for spatial validation and calibration of two-dimensional perimeter spread models: A case study considering fire. Agricultural and Forest Meteorology, 2012, 160, 110-117.	1.9	16
50	Decay rates for quasi-birth-and-death processes with countably many phases and tridiagonal block generators. Advances in Applied Probability, 2006, 38, 522-544.	0.4	16
51	A Geometric Product-Form Distribution for a Queueing Network by Non-Standard Batch Arrivals and Batch Transfers. Advances in Applied Probability, 1997, 29, 523-544.	0.4	15
52	Strong Stochastic Bounds for the Stationary Distribution of a Class of Multicomponent Performability Models. Operations Research, 1998, 46, 665-674.	1.2	15
53	Modelling modal gating of ion channels with hierarchical Markov models. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2016, 472, 20160122.	1.0	14
54	Drift Conditions for Matrix-Analytic Models. Mathematics of Operations Research, 2003, 28, 346-360.	0.8	13

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55	WHAT IS A UNIT OF CAPACITY WORTH?. Probability in the Engineering and Informational Sciences, 2002, 16, 513-522.	0.6	12
56	Nonlinear Accumulating Priority Queues with Equivalent Linear Proxies. Operations Research, 2017, 65, 1712-1721.	1.2	12
57	Why is Kemeny's constant a constant?. Journal of Applied Probability, 2018, 55, 1025-1036.	0.4	12
58	Connecting internally balanced quasi-reversible Markov processes. Advances in Applied Probability, 1992, 24, 934-959.	0.4	11
59	A Stochastic Analysis of a Greedy Routing Scheme in Sensor Networks. SIAM Journal on Applied Mathematics, 2010, 70, 2214-2238.	0.8	11
60	Collective retention and transmission of chemical signals in a social insect. Die Naturwissenschaften, 2012, 99, 245-248.	0.6	11
61	Modeling and analysis of block arrival times in the Bitcoin blockchain. Stochastic Models, 2020, 36, 602-637.	0.3	11
62	Insensitivity in Stochastic Models. Profiles in Operations Research, 2011, , 121-140.	0.3	11
63	Evolutionary Optimization of File Assignment for a Large-Scale Video-on-Demand System. IEEE Transactions on Knowledge and Data Engineering, 2008, 20, 836-850.	4.0	11
64	Information entropy and parrondo's discrete-time ratchet. AIP Conference Proceedings, 2000, , .	0.3	10
65	Combination Load Balancing for Video-on-Demand Systems. IEEE Transactions on Circuits and Systems for Video Technology, 2008, 18, 937-948.	5.6	10
66	Incorporating Uncertainty of Management Costs in Sensitivity Analyses of Matrix Population Models. Conservation Biology, 2013, 27, 134-144.	2.4	10
67	On the Dual Relationship Between Markov Chains of GI/M/1 and M/G/1 Type. Advances in Applied Probability, 2010, 42, 210-225.	0.4	10
68	Reduced load approximations for loss networks. Telecommunication Systems, 1993, 2, 21-50.	1.6	9
69	The output process of an MMPP/M/1 queue. Journal of Applied Probability, 1998, 35, 998-1002.	0.4	9
70	A model framework for greedy routing in a sensor network with a stochastic power scheme. ACM Transactions on Sensor Networks, 2011, 7, 1-28.	2.3	9
71	Queues with boundary assistance: the effects of truncation. Queueing Systems, 2011, 69, 175-197.	0.6	9
72	An Activation-Clearance Model for Plasmodium vivax Malaria. Bulletin of Mathematical Biology, 2020, 82, 32.	0.9	9

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73	A general formulation for mean-value analysis in product-form batch-movement queueing networks. <i>Queueing Systems</i> , 1994, 16, 363-372.	0.6	8
74	State-dependent Coupling of Quasireversible Nodes. , 2001, 37, 163-197.		8
75	Towards Q-learning the Whittle Index for Restless Bandits. , 2019, , .		8
76	Antibody Dynamics for Plasmodium vivax Malaria: A Mathematical Model. <i>Bulletin of Mathematical Biology</i> , 2021, 83, 6.	0.9	8
77	Maximal Profit Dimensioning and Tariffing of Loss Networks. <i>Probability in the Engineering and Informational Sciences</i> , 1995, 9, 323-340.	0.6	7
78	The quasistationary distributions of level-independent quasi-birth-and-death processes. <i>Stochastic Models</i> , 1998, 14, 389-406.	0.3	7
79	On the Inverse of Erlang's Function. <i>Journal of Applied Probability</i> , 1998, 35, 246-252.	0.4	7
80	Two Issues Surrounding Parrondo's Paradox. , 2005, , 599-609.		7
81	Some Properties of the Capacity Value Function. <i>SIAM Journal on Applied Mathematics</i> , 2005, 65, 1407-1419.	0.8	7
82	Rejoinder: Citation Statistics. <i>Statistical Science</i> , 2009, 24, .	1.6	7
83	On the Dual Relationship Between Markov Chains of GI/M/1 and M/G/1 Type. <i>Advances in Applied Probability</i> , 2010, 42, 210-225.	0.4	7
84	The intercept term of the asymptotic variance curve for some queueing output processes. <i>European Journal of Operational Research</i> , 2015, 242, 455-464.	3.5	7
85	Connecting internally balanced quasi-reversible Markov processes. <i>Advances in Applied Probability</i> , 1992, 24, 934-959.	0.4	6
86	A convolution algorithm for calculating exact equilibrium distributions in resource allocation problems with moderate user interference. <i>IEEE Transactions on Communications</i> , 1994, 42, 1106-1111.	4.9	6
87	A correspondence between product-form batch-movement queueing networks and single-movement networks. <i>Journal of Applied Probability</i> , 1997, 34, 160-175.	0.4	6
88	Braess's paradox in a loss network. <i>Journal of Applied Probability</i> , 1997, 34, 155-159.	0.4	6
89	The output process of an MMPP/M/1 queue. <i>Journal of Applied Probability</i> , 1998, 35, 998-1002.	0.4	6
90	The distribution of the number of arrivals in a subinterval of a busy period of a single server queue. <i>Queueing Systems</i> , 2006, 53, 105-114.	0.6	6

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91	A Markov analysis of social learning and adaptation. <i>Journal of Evolutionary Economics</i> , 2006, 16, 299-319.	0.8	6
92	Levelâ€‘phase independent stationary distributions for GI/M/1-type Markov chains with infinitely-many phases. <i>Performance Evaluation</i> , 2013, 70, 551-563.	0.9	6
93	Insensitivity in discrete time queues with a moving server. <i>Queueing Systems</i> , 1992, 11, 273-297.	0.6	5
94	Mean-value analysis for a class of Petri nets and batch-movement queueing networks with product-form equilibrium distributions. <i>Mathematical and Computer Modelling</i> , 1995, 22, 27-34.	2.0	5
95	A product-form â€‘loss network’ with a form of queueing. <i>Journal of Applied Probability</i> , 1997, 34, 1075-1078.	0.4	5
96	Level phase independence for GI/M/1-type Markov chains. <i>Journal of Applied Probability</i> , 2000, 37, 984-998.	0.4	5
97	A Restless Bandit Model for Resource Allocation, Competition, and Reservation. <i>Operations Research</i> , 2022, 70, 416-431.	1.2	5
98	A Distributed Scheme for Value-Based Bandwidth Reconfiguration. <i>Lecture Notes in Computer Science</i> , 2009, , 16-35.	1.0	5
99	A correspondence between product-form batch-movement queueing networks and single-movement networks. <i>Journal of Applied Probability</i> , 1997, 34, 160-175.	0.4	4
100	A distributed approach to capacity allocation in logical networks. <i>European Journal of Operational Research</i> , 2010, 203, 737-748.	3.5	4
101	Random Transmission Radii in Greedy Routing Models for Ad Hoc Sensor Networks. <i>SIAM Journal on Applied Mathematics</i> , 2012, 72, 535-557.	0.8	4
102	A general non-central hypergeometric distribution. <i>Communications in Statistics - Theory and Methods</i> , 2017, 46, 4579-4598.	0.6	4
103	Safe Blues: The case for virtual safe virus spread in the long-term fight against epidemics. <i>Patterns</i> , 2021, 2, 100220.	3.1	4
104	A product-form â€‘loss network’ with a form of queueing. <i>Journal of Applied Probability</i> , 1997, 34, 1075-1078.	0.4	3
105	THE RUNNING MAXIMUM OF A LEVEL-DEPENDENT QUASI-BIRTH-DEATH PROCESS. <i>Probability in the Engineering and Informational Sciences</i> , 2016, 30, 212-223.	0.6	3
106	Queues with advanced reservations: an infinite-server proxy for the bookings diary. <i>Advances in Applied Probability</i> , 2016, 48, 13-31.	0.4	3
107	The Markov-modulated Erlang loss system. <i>Performance Evaluation</i> , 2017, 116, 53-69.	0.9	3
108	Bounds for the solution to the single-period inventory model with compound renewal process input: An application to setting credit card limits. <i>European Journal of Operational Research</i> , 2019, 274, 1012-1018.	3.5	3

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109	Proof of the Hamiltonicity-Trace Conjecture for Singularly Perturbed Markov Chains. Journal of Applied Probability, 2011, 48, 901-910.	0.4	3
110	Optimal market thickness. Journal of Economic Theory, 2022, 200, 105383.	0.5	3
111	Algebraic criteria for extended product form in generalised semi-Markov processes. Stochastic Processes and Their Applications, 1992, 42, 269-282.	0.4	2
112	Quasi-reversibility and networks of queues with nonstandard batch movements. Mathematical and Computer Modelling, 2000, 31, 335-341.	2.0	2
113	Cost-Effective Deployment of Bandwidth Partitioning in Broadband Networks. Telecommunication Systems, 2004, 25, 33-49.	1.6	2
114	A COMMENT ON TWO-PHASE BEHAVIOR OF FINANCIAL MARKETS. International Journal of Theoretical and Applied Finance, 2007, 10, 89-93.	0.2	2
115	The roles of coupling and the deviation matrix in determining the value of capacity in M/M/1/C queues. Queueing Systems, 2016, 83, 157-179.	0.6	2
116	Networks of interacting stochastic fluid models with infinite and finite buffers. Queueing Systems, 2019, 92, 293-322.	0.6	2
117	The time-dependent expected reward and deviation matrix of a finite QBD process. Linear Algebra and Its Applications, 2019, 570, 61-92.	0.4	2
118	The Algebraic Degree of Phase-Type Distributions. Journal of Applied Probability, 2010, 47, 611-629.	0.4	2
119	An error bound for a continuous time approximation of discrete time servicing. Stochastic Models, 1992, 8, 651-664.	0.3	1
120	State-Dependent Coupling in General Networks. Queueing Systems, 2001, 39, 337-348.	0.6	1
121	Dynamic reallocation of capacity in logically fully-connected networks. International Journal of Network Management, 2004, 14, 9-18.	1.4	1
122	Corrigendum to "The distribution of the number of arrivals in a subinterval of a busy period of a single server queue". Queueing Systems, 2008, 59, 87-93.	0.6	1
123	Decay rates for some quasi-birth-and-death processes with phase-dependent transition rates. Journal of Applied Probability, 2011, 48, 327-339.	0.4	1
124	How do we encourage an egoist to act socially in an ad hoc mobile network?. Computer Networks, 2012, 56, 3499-3510.	3.2	1
125	Renfrey Burnard Potts 1925-2005. Historical Records of Australian Science, 2014, 25, 291.	0.3	1
126	Discussion on "On the Laplace Transform of the Aggregate Discounted Claims with Markovian Arrivals," by Jiandong Ren, Volume 12(2). North American Actuarial Journal, 2015, 19, 73-77.	0.8	1

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127	How old is this bird? The age distribution under some phase sampling schemes. Journal of Mathematical Biology, 2017, 75, 1319-1347.	0.8	1
128	Strategic customer behavior in an M/M/1 feedback queue. Queueing Systems, 2021, 97, 223-259.	0.6	1
129	Decay rates for some quasi-birth-and-death processes with phase-dependent transition rates. Journal of Applied Probability, 2011, 48, 327-339.	0.4	1
130	Maximal profit dimensioning and tariffing of loss networks with cross-connects. Mathematical and Computer Modelling, 2000, 31, 21-30.	2.0	0
131	Comments on: Light tail asymptotics in multidimensional reflecting processes for queueing networks. Top, 2011, 19, 306-308.	1.1	0
132	A queueing model for the capacity planning of a multi-phase human services process. International Journal of Systems Science: Operations and Logistics, 2015, 2, 156-167.	2.0	0
133	THE VALUE OF COMMUNICATION AND COOPERATION WHEN SERVERS ARE STRATEGIC. ANZIAM Journal, 2019, 61, 349-367.	0.3	0
134	A paradox for expected hitting times. Stochastic Models, 2020, 36, 365-377.	0.3	0
135	The value of communication and cooperation when servers are strategic. ANZIAM Journal, 0, 61, 349-367.	0.0	0
136	Resource competition in virtual network embedding. Stochastic Models, 2021, 37, 231-263.	0.3	0
137	Spatial queues with a moving server. Queueing Systems, 0, , 1.	0.6	0
138	A Model for Cell Proliferation in a Developing Organism. Journal of Mathematical Biology, 2022, 84, .	0.8	0