

Dharmaraja Selvamuthu

List of Publications by Year in descending order

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Version: 2024-02-01

88
papers

1,010
citations

516710

16
h-index

552781

26
g-index

89
all docs

89
docs citations

89
times ranked

645
citing authors

#	ARTICLE	IF	CITATIONS
1	Indian stock market prediction using artificial neural networks on tick data. Financial Innovation, 2019, 5, .	6.4	147
2	Analytic modeling of handoffs in wireless cellular networks. Information Sciences, 2002, 148, 155-166.	6.9	58
3	WHOP: Wormhole attack detection protocol using hound packet. , 2011, , .		44
4	Performance modeling of wireless networks with generally distributed handoff interarrival times. Computer Communications, 2003, 26, 1747-1755.	5.1	43
5	Reliability and Survivability Analysis for UMTS Networks: An Analytical Approach. IEEE Transactions on Network and Service Management, 2008, 5, 132-142.	4.9	42
6	Reliability and survivability of vehicular ad hoc networks: An analytical approach. Reliability Engineering and System Safety, 2016, 153, 28-38.	8.9	40
7	A Continuous-Time Ehrenfest Model with Catastrophes and Its Jump-Diffusion Approximation. Journal of Statistical Physics, 2015, 161, 326-345.	1.2	39
8	Combined Guard Channel and Mobile-Assisted Handoff for Cellular Networks. IEEE Transactions on Vehicular Technology, 2008, 57, 502-510.	6.3	35
9	Performance analysis of IEEE 802.11 DCF with stochastic reward nets. International Journal of Communication Systems, 2007, 20, 273-296.	2.5	33
10	Introduction to Statistical Methods, Design of Experiments and Statistical Quality Control. , 2018, , .		29
11	Performability modelling of wireless communication systems. International Journal of Communication Systems, 2003, 16, 561-577.	2.5	26
12	Semi-Markov modeling of dependability of VoIP network in the presence of resource degradation and security attacks. Reliability Engineering and System Safety, 2011, 96, 1627-1636.	8.9	26
13	Transient analysis of a two-heterogeneous servers queue with system disaster, server repair and customersâ€™ impatience. Top, 2017, 25, 179-205.	1.6	23
14	Analysis of inspection-based preventive maintenance in operational software systems. , 0, , .		22
15	Transient solution of a Markovian queuing model with heterogeneous servers and catastrophes. Opsearch, 2015, 52, 810-826.	1.8	22
16	Transient analysis of M/M/1 queue with working vacation, heterogeneous service and customersâ€™ impatience. RAIRO - Operations Research, 2017, 51, 591-606.	1.8	20
17	Feasibility assessment of renewable energy resources for tea plantation and industry in India - A review. Renewable and Sustainable Energy Reviews, 2021, 145, 111083.	16.4	20
18	A fluid queue modulated by two independent birthâ€“death processes. Computers and Mathematics With Applications, 2010, 60, 2433-2444.	2.7	19

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19	Analytical modeling of bidirectional multi-channel IEEE 802.11 MAC protocols. International Journal of Communication Systems, 2011, 24, 647-665.	2.5	17
20	Transient Solution of a two-processor heterogeneous systems. Mathematical and Computer Modelling, 2000, 32, 1117-1123.	2.0	16
21	Reliability and availability analysis for the JPL Remote Exploration and Experimentation System. , 0, , .		16
22	BAAP: Blackhole attack avoidance protocol for wireless network. , 2011, , .		16
23	Phase-type models for cellular networks supporting voice, video and data traffic. Mathematical and Computer Modelling, 2008, 47, 1167-1180.	2.0	13
24	Markov regenerative credit rating model. Journal of Risk Finance, 2017, 18, 311-325.	5.6	13
25	Empirical Analysis for Crop Yield Forecasting in India. Agricultural Research, 2020, 9, 132-138.	1.7	13
26	Performance analysis of DRX mechanism using batch arrival vacation queueing system with N-policy in LTE-A networks. Annales Des Telecommunications/Annals of Telecommunications, 2020, 75, 353-367.	2.5	12
27	Analytical modeling of TCP flow in wireless LANs. Mathematical and Computer Modelling, 2011, 53, 684-693.	2.0	10
28	Reducing session establishment delay using timed out packets in SIP signaling network. International Journal of Communication Systems, 2016, 29, 262-276.	2.5	9
29	An analytical model driven by fluid queue for battery life time of a user equipment in LTE-A networks. Physical Communication, 2018, 30, 213-219.	2.1	8
30	Analysis of Single Server Queue with Modified Vacation Policy. Methodology and Computing in Applied Probability, 2020, 22, 511-553.	1.2	8
31	Selection of DRX scheme for voice traffic in LTE-A networks: Markov modeling and performance analysis. Journal of Industrial and Management Optimization, 2019, 15, 739-756.	1.3	8
32	Stochastic modeling for delay analysis of a VoIP network. Annals of Operations Research, 2015, 233, 171-180.	4.1	7
33	A mathematical model for supply chain management of blood banks in India. Opsearch, 2020, 57, 541-552.	1.8	7
34	Reliability and performance modelling of VoIP system with multiple component failures. International Journal of Reliability and Safety, 2013, 7, 58.	0.2	6
35	On the study of simultaneous service by random number of servers with retrial and preemptive priority. International Journal of Operational Research, 2014, 20, 68.	0.2	6
36	Portfolio optimization of credit risky bonds: a semi-Markov process approach. Financial Innovation, 2020, 6, .	6.4	6

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37	Analysis of energy saving in user equipment in LTE-A using stochastic modelling. Telecommunication Systems, 2022, 80, 123-140.	2.5	6
38	Transient solution of a link with finite capacity supporting multiple streams. Performance Evaluation, 2001, 43, 1-14.	1.2	5
39	Analytical modeling of Transmission Control Protocol NewReno using Generalized Stochastic Petri Nets. International Journal of Communication Systems, 2014, 27, 4185-4198.	2.5	5
40	Performance analysis of SIP signaling network using hierarchical modeling. , 2014, , .		5
41	Perception based performance analysis of higher education institutions: a soft computing approach. Soft Computing, 2020, 24, 513-521.	3.6	5
42	The transient solution of a local-jump heterogeneous chain of diatomic systems. Journal of Physics A, 1998, 31, 6579-6588.	1.6	4
43	Markov chain models and applications. , 2015, , 393-421.		4
44	Analysis of energy efficiency in cloud based heterogeneous RAN with large-scale antenna systems. Computer Networks, 2019, 149, 265-276.	5.1	4
45	Scenario generation in stochastic programming using principal component analysis based on moment-matching approach. Opsearch, 2020, 57, 190-201.	1.8	4
46	On the Computation of Some Interval Reliability Indicators for Semi-Markov Systems. Mathematics, 2021, 9, 575.	2.2	4
47	Valuation of equity-indexed annuities under correlated jump&diffusion processes. Journal of Computational and Applied Mathematics, 2021, 395, 113575.	2.0	4
48	Transient solution of multiprocessor systems with state-dependent arrivals. International Journal of Computer Mathematics, 2000, 73, 313-320.	1.8	3
49	Performance analysis of multi-party conferencing in IMS using vacation queues. , 2014, , .		3
50	On the exact transient solution of fluid queue driven by a birth death process with specific rational rates and absorption. Opsearch, 2015, 52, 746-755.	1.8	3
51	Markov Chain Model with Catastrophe to Determine Mean Time to Default of Credit Risky Assets. Journal of Statistical Physics, 2017, 169, 876-888.	1.2	3
52	A review of non-Markovian models for the dynamics of credit ratings. Reports on Economics and Finance, 2019, 5, 15-33.	0.5	3
53	Optimal portfolio trading subject to stochastic dominance constraints under second&order autoregressive price dynamics. International Transactions in Operational Research, 2020, 27, 1771-1803.	2.7	3
54	Steady state analysis of fluid queues driven by birth death processes with rational rates. International Journal of Operational Research, 2020, 37, 562.	0.2	3

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55	A Time Series Framework for Pricing Guaranteed Lifelong Withdrawal Benefit. Computational Economics, 2021, 58, 1225-1261.	2.6	3
56	Stochastic Modeling Techniques for Secure and Survivable Systems. , 2008, , 171-207.		2
57	Adaptive joint call admission control scheme in LTE-UMTS networks. , 2014, , .		2
58	Performance analysis of voice over internet protocol via non Markovian loss system with preemptive priority and server break down. Opsearch, 2014, 51, 50-75.	1.8	2
59	Effect of outliers on volatility forecasting and \sqrt{V} value at R risk estimation in crude oil markets. OPEC Energy Review, 2016, 40, 276-299.	1.9	2
60	Optimal number of frames transmitted in a sensing based opportunistic spectrum access. Physical Communication, 2018, 26, 156-161.	2.1	2
61	A Markov Modulated Dynamic Contagion Process with Application to Credit Risk. Journal of Statistical Physics, 2019, 175, 495-511.	1.2	2
62	Tradeoff Between Performance and Energy-Efficiency in DRX Mechanism in LTE-A Networks. , 2019, , .		2
63	Energy Harvesting Modelling and Analysis in LTE-A Networks with DRX Scheme. , 2019, , .		2
64	Analysis of traffic offload using multi-attribute decision making technique in heterogeneous shared networks. IET Networks, 2019, 8, 256-263.	1.8	2
65	Hedging and utility valuation of a defaultable claim driven by Hawkes processes. Applied Stochastic Models in Business and Industry, 0, , .	1.5	2
66	Infinite-server systems with Hawkes arrivals and Hawkes services. Queueing Systems, 2022, 101, 329-351.	0.9	2
67	Exact transient solutions of kinetics of first-order reactions with end effects. Journal of Mathematical Chemistry, 1999, 25, 281-294.	1.5	1
68	Call processing delay analysis in cellular networks: a queuing model approach. Opsearch, 2009, 46, 289-302.	1.8	1
69	Mean-variance optimal trading problem subject to stochastic dominance constraints with second order autoregressive price dynamics. Mathematical Methods of Operations Research, 2017, 86, 29-69.	1.0	1
70	Analysis of Mid-Haul Characteristics for LTE-NR Multi-Connectivity in Heterogeneous Cloud RAN. , 2019, , .		1
71	Signaling Packet Aggregation and Compression in SIP Network: Modeling and Performance Evaluation. Wireless Personal Communications, 2020, 110, 651-676.	2.7	1
72	Analysis of a model of batch arrival single server queue with random vacation policy. Communications in Statistics - Theory and Methods, 2021, 50, 5314-5357.	1.0	1

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73	Analysis of a Multiple Dual-Stage Vacation Queueing System with Disaster and Repairable Server. Methodology and Computing in Applied Probability, 2022, 24, 2485-2508.	1.2	1
74	Variable annuities valuation under a mixed fractional Brownian motion environment with jumps considering mortality risk. Applied Stochastic Models in Business and Industry, 2022, 38, 1019-1038.	1.5	1
75	Perfonnance evaluation of IEEE 802.11 with stochastic reward nets. , 0, , .		0
76	Adaptive Joint Call Admission Control Scheme for Heterogeneous Wireless Networks. , 2017, , .		0
77	Analysis of Computational Complexity and Power Consumption in Cloud Based Heterogeneous RAN. , 2018, , .		0
78	Delay Efficient Load Balancing Scheme for Component Carrier Selection in Carrier Aggregation in LTE-A. EAI/Springer Innovations in Communication and Computing, 2019, , 151-163.	1.1	0
79	A Markov regenerative process with recurrence time and its application. Financial Innovation, 2021, 7, .	6.4	0
80	Estimation of Mortality Rate of COVID-19 in India using SEIRD Model. Opsearch, 0, , 1.	1.8	0
81	Delay Efficient Load Balancing Scheme for Component Carrier Selection in Carrier Aggregation in LTE-A. , 2017, , .		0
82	Review of Probability. , 2018, , 17-62.		0
83	Transient solution of fluid queue modulated by two independent birth-death processes. International Journal of Operational Research, 2019, 36, 1.	0.2	0
84	Partial Observed Fluid Queue Model for Rechargeable Batteries. , 2020, , .		0
85	Applications of Fluid Queues in Rechargeable Batteries. Infosys Science Foundation Series, 2020, , 91-101.	0.6	0
86	A contagion process with self-exciting jumps in credit risk applications. Stochastics, 0, , 1-20.	1.1	0
87	Performance analysis of discrete-time Geo ^X /G/1 retrial queue with various vacation policies and impatient customers. RAIRO - Operations Research, 0, , .	1.8	0
88	Analysis of a Multiple M/M/1/DV Queueing System with a Dual-Threshold Policy, Vacation Interruption and a Waiting Server. Bulletin of the Iranian Mathematical Society, 0, , .	1.0	0