Nail Akar

List of Publications by Year
in descending order

57 papers	**653** citations	567281 **15** h-index	642732 **23** g-index
59 all docs	**59** docs citations	**59** times ranked	**354** citing authors

#	Article	IF	Citations
1	Exact Analytical Model of Age of Information in Multi-Source Status Update Systems With Per-Source Queueing. IEEE Internet of Things Journal, 2022, 9, 20706-20718.	8.7	4
2	Steady-state and first passage time distributions for waiting times in the $ MAP/M/s+G $ queueing model with generally distributed patience times. Journal of Industrial and Management Optimization, 2021, .	1.3	0
3	The Multi-Source Probabilistically Preemptive M/PH/1/1 Queue With Packet Errors. IEEE Transactions on Communications, 2021, 69, 7297-7308.	7.8	13
4	Power allocation and temporal fair user group scheduling for downlink NOMA. Telecommunication Systems, 2021, 77, 753-766.	2.5	5
5	Energy management for age of information control in solar-powered IoT end devices. Wireless Networks, 2021, 27, 3165-3178.	3.0	3
6	Discrete-Time Queueing Model of Age of Information With Multiple Information Sources. IEEE Internet of Things Journal, 2021, 8, 14531-14542.	8.7	30
7	Transient and First Passage Time Distributions of First- and Second-order Multi-regime Markov Fluid Queues via ME-fication. Methodology and Computing in Applied Probability, 2020, , 1.	1.2	5
8	Finding the Exact Distribution of (Peak) Age of Information for Queues of PH/PH/1/1 and M/PH/1/2 Type. IEEE Transactions on Communications, 2020, 68, 5661-5672.	7.8	20
9	On the Queuing Model of the Energy-Delay Tradeoff in Wireless Links With Power Control and Link Adaptation. IEEE Transactions on Communications, 2019, 67, 3431-3442.	7.8	6
10	Queue management for two-user cognitive radio with delay-constrained primary user. Computer Networks, 2018, 142, 1-12.	5.1	9
11	Joint Cell Muting and User Scheduling in Multicell Networks with Temporal Fairness. Wireless Communications and Mobile Computing, 2018, 2018, 1-18.	1.2	6
12	The finite/infinite horizon ruin problem with multi-threshold premiums: a Markov fluid queue approach. Annals of Operations Research, 2017, 252, 85-99.	4.1	8
13	Fixed-point analysis of a network of routers with persistent TCP/UDP flows and class-based weighted fair queuing. Telecommunication Systems, 2017, 64, 585-598.	2.5	3
14	Performance modeling of QoS differentiation in optical packet switching via FDL access limitation. Photonic Network Communications, 2017, 34, 344-355.	2.7	2
15	Disk scheduling with shortest cumulative access time first algorithms. Turkish Journal of Electrical Engineering and Computer Sciences, 2017, 25, 3367-3380.	1.4	0
16	Fitting Matrix Geometric Distributions by Model Reduction. Stochastic Models, 2015, 31, 292-315.	0.5	3
17	Analysis of an Adaptive Modulation and Coding scheme with HARQ for TCP traffic. , 2015, , .		0
18	Analytical performance modeling of elastic optical links with aligned spectrum allocation. Computer Networks, 2015, 88, 40-50.	5.1	3

#	ARTICLE	IF	CITATIONS
19	Mapping time-varying IP traffic to flexible optical paths in flexgrid optical networks. Photonic Network Communications, 2015, 29, 67-77.	2.7	1
20	A Two-Level Temporal Fair Scheduler for Multi-Cell Wireless Networks. IEEE Wireless Communications Letters, 2015, 4, 269-272.	5.0	10
21	Class-based first-fit spectrum allocation with fragmentation avoidance for dynamic flexgrid optical networks. Optical Switching and Networking, 2015, 15, 44-52.	2.0	7
22	The workload-dependent MAP/PH/1 queue with infinite/finite workload capacity. Performance Evaluation, 2013, 70, 1047-1058.	1.2	12
23	Delay Analysis of Timer-Based Frame Coalescing in Energy Efficient Ethernet. IEEE Communications Letters, 2013, 17, 1459-1462.	4.1	9
24	Dimensioning shared-per-node recirculating fiber delay line buffers in an optical packet switch. Performance Evaluation, 2013, 70, 1059-1071.	1.2	4
25	Analysis of continuous feedback Markov fluid queues and its applications to modeling Optical Burst Switching. , 2013, , .		5
26	Running Multiple Instances of the Distributed Coordination Function for Air-Time Fairness in Multi-Rate WLANs. IEEE Transactions on Communications, 2013, 61, 5067-5076.	7.8	4
27	Moments of Conditional Sojourn Times in Finite Capacity M/M/1/N-PS Processor Sharing Queues. IEEE Communications Letters, 2012, 16, 533-535.	4.1	1
28	Retrial Queuing Models of Multi-Wavelength FDL Feedback Optical Buffers. IEEE Transactions on Communications, 2011, 59, 2832-2840.	7.8	6
29	TCP flow aware adaptive path switching in diffserv enabled MPLS networks. European Transactions on Telecommunications, 2011, 22, 185-199.	1.2	1
30	Analytical model of asynchronous shared-per-wavelength multi-fiber optical switch. , 2011, , .		1
31	Dynamic threshold-based assembly algorithms for optical burst switching networks subject to burst rate constraints. Photonic Network Communications, 2010, 20, 120-130.	2.7	6
32	A survey of quality of service differentiation mechanisms for optical burst switching networks. Optical Switching and Networking, 2010, 7, 1-11.	2.0	17
33	Fixed point analysis of limited range share per node wavelength conversion in asynchronous optical packet switching systems. Photonic Network Communications, 2009, 18, 255-263.	2.7	18
34	System-theoretical algorithmic solution to waiting times in semi-Markov queues. Performance Evaluation, 2009, 66, 587-606.	1.2	5
35	Exact Analysis of Single-Wavelength Optical Buffers With Feedback Markov Fluid Queues. Journal of Optical Communications and Networking, 2009, 1, 530.	4.8	16
36	Performance Evaluation of Slotted Optical Burst Switching Systems With Quality of Service Differentiation. Journal of Lightwave Technology, 2009, 27, 2621-2633.	4.6	13

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37	Exact analysis of offset-based service differentiation in single-channel multi-class OBS. IEEE Communications Letters, 2009, 13, 148-150.	4.1	5
38	Solving Multi-Regime Feedback Fluid Queues. Stochastic Models, 2008, 24, 425-450.	0.5	28
39	Performance Analysis of an Optical Packet Switch Employing Full/Limited Range Share Per Node Wavelength Conversion. , 2007, , .		6
40	Comparative study of limited-range wavelength conversion policies for asynchronous optical packet switching. Journal of Optical Networking, 2007, 6, 134.	2.5	7
41	Packet Loss Analysis of Synchronous Buffer-less Optical Switch with Shared Limited Range Wavelength Converters. , 2007, , .		1
42	A Performance Study of Limited Range Partial Wavelength Conversion for Asynchronous Optical Packet/Burst Switching. , 2006, , .		12
43	Solving the ME/ME/1 queue with state–space methods and the matrix sign function. Performance Evaluation, 2006, 63, 131-145.	1.2	15
44	Wavelength converter sharing in asynchronous optical packet/burst switching: An exact blocking analysis for markovian arrivals. IEEE Journal on Selected Areas in Communications, 2006, 24, 69-80.	14.0	40
45	A matrix analytical method for the discrete time Lindley equation using the generalized Schur decomposition. , 2006, , .		4
46	Rate-controlled optical burst switching for both congestion avoidance and service differentiation. Optical Switching and Networking, 2005, 2, 217-229.	2.0	5
47	A simple and effective mechanism for stored video streaming with TCP transport and server-side adaptive frame discard. Computer Networks, 2005, 48, 489-501.	5.1	21
48	Capacity requirements of traffic handling schemes in multi-service networks. Computer Communications, 2005, 28, 2070-2081.	5.1	0
49	Computing Moments of First Passage Times to a Subset of States in Markov Chains. SIAM Journal on Matrix Analysis and Applications, 2005, 27, 396-412.	1.4	17
50	Infinite- and finite-buffer Markov fluid queues: a unified analysis. Journal of Applied Probability, 2004, 41, 557-569.	0.7	20
51	AIMD-based online MPLS traffic engineering for TCP flows via distributed multi-path routing. Annales Des Telecommunications/Annals of Telecommunications, 2004, 59, 1353-1371.	2.5	5
52	Infinite- and finite-buffer Markov fluid queues: a unified analysis. Journal of Applied Probability, 2004, 41, 557-569.	0.7	31
53	A novel computational method for solving finite qbd processes. Stochastic Models, 2000, 16, 273-311.	0.3	25
54	An invariant subspace approach in m/g/l and g/m/l type markov chains. Stochastic Models, 1997, 13, 381-416.	0.3	84

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55	A numerically efficient method for the MAP/D/1/K queue via rational approximations. Queueing Systems, 1996, 22, 97-120.	0.9	28
56	Markov modulated periodic arrival process offered to an ATM multiplexer. Performance Evaluation, 1995, 22, 175-190.	1.2	6
57	A common solution to a pair of linear matrix equations over a principal ideal domain. Linear Algebra and Its Applications, 1991, 144, 85-99.	0.9	37