

Attahiru S Alfa

List of Publications by Year in descending order

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108
papers

1,415
citations

516710

16
h-index

434195

31
g-index

110
all docs

110
docs citations

110
times ranked

1235
citing authors

#	ARTICLE	IF	CITATIONS
1	Queueing Theory for Telecommunications. , 2010, , .		132
2	Denial of Service Defence for Resource Availability in Wireless Sensor Networks. IEEE Access, 2018, 6, 6975-7004.	4.2	94
3	A Statistical Approach to Detect Jamming Attacks in Wireless Sensor Networks. Sensors, 2018, 18, 1691.	3.8	94
4	A Survey on an Energy-Efficient and Energy-Balanced Routing Protocol for Wireless Sensor Networks. Sensors, 2017, 17, 1084.	3.8	91
5	Application of Mobility Prediction in Wireless Networks Using Markov Renewal Theory. IEEE Transactions on Vehicular Technology, 2010, 59, 788-802.	6.3	66
6	Applied Discrete-Time Queues. , 2016, , .		64
7	Vacation models in discrete time. Queueing Systems, 2003, 44, 5-30.	0.9	53
8	Using Lagrangian Relaxation for Radio Resource Allocation in High Altitude Platforms. IEEE Transactions on Wireless Communications, 2015, 14, 5823-5835.	9.2	45
9	Performance Analysis of Modified IEEE 802.11-Based Cognitive Radio Networks. IEEE Communications Letters, 2010, 14, 975-977.	4.1	44
10	Discrete time queues and matrix-analytic methods. Top, 2002, 10, 147-185.	1.6	34
11	Solving resource allocation problems in cognitive radio networks: a survey. Eurasip Journal on Wireless Communications and Networking, 2016, 2016, .	2.4	32
12	Queueing Models for Cognitive Radio Networks: A Survey. IEEE Access, 2018, 6, 50801-50823.	4.2	32
13	Optimal resource allocation solutions for heterogeneous cognitive radio networks. Digital Communications and Networks, 2017, 3, 129-139.	5.0	30
14	IP Traffic Matrix Estimation Methods: Comparisons and Improvements. , 2006, , .		29
15	Achieving Maximum Throughput in Random Access Protocols with Multipacket Reception. IEEE Transactions on Mobile Computing, 2014, 13, 497-511.	5.8	28
16	Mixed-integer programming based techniques for resource allocation in underlay cognitive radio networks: A survey. Journal of Communications and Networks, 2016, 18, 744-761.	2.6	28
17	Resource Optimisation in 5G and Internet-of-Things Networking. Wireless Personal Communications, 2020, 111, 2671-2702.	2.7	28
18	Distributed Cooperative Multi-Channel Spectrum Sensing Based on Dynamic Coalitional Game. , 2010, , .		26

#	ARTICLE	IF	CITATIONS
19	Discrete-time analysis of MAP/PH/1 multiclass general preemptive priority queue. Naval Research Logistics, 2003, 50, 662-682.	2.2	23
20	Cooperative Prediction for Cognitive Radio Networks. Wireless Personal Communications, 2016, 89, 1177-1202.	2.7	18
21	Optimal Control of State-Dependent Service Rates in a MAP/M/1 Queue. IEEE Transactions on Automatic Control, 2017, 62, 4965-4979.	5.7	18
22	A multiserver queue with markovian arrivals and group services with thresholds. Naval Research Logistics, 1993, 40, 811-827.	2.2	15
23	Network Restoration in Wireless Sensor Networks for Next-Generation Applications. IEEE Sensors Journal, 2019, 19, 8352-8363.	4.7	15
24	Combined Elapsed Time and Matrix-Analytic Method for the Discrete Time GI/G/1 and GIX/G/1 Systems. Queueing Systems, 2003, 45, 5-25.	0.9	14
25	Interference Characterization in Underlay Cognitive Networks With Intra-Network and Inter-Network Dependence. IEEE Transactions on Mobile Computing, 2021, 20, 2977-2991.	5.8	14
26	Performance Analysis of Blockchain-Enabled Data-Sharing Scheme in Cloud-Edge Computing-Based IoT Networks. IEEE Internet of Things Journal, 2022, 9, 21520-21536.	8.7	14
27	Mobility Prediction and Spatial-Temporal Traffic Estimation in Wireless Networks. IEEE Vehicular Technology Conference, 2008, , .	0.4	13
28	Space Reduction for a Class of Multidimensional Markov Chains: A Summary and Some Applications. INFORMS Journal on Computing, 2018, 30, 1-10.	1.7	12
29	Discrete-time analysis of the GI/G/1 system with Bernoulli retrials: An algorithmic approach. Annals of Operations Research, 2006, 141, 51-66.	4.1	11
30	Resource allocation in heterogeneous cooperative cognitive radio networks. International Journal of Communication Systems, 2017, 30, e3247.	2.5	11
31	Stochastic geometry approach towards interference management and control in cognitive radio network: A survey. Computer Communications, 2021, 166, 174-195.	5.1	11
32	Computationally efficient method for analyzing guard channel schemes. Telecommunication Systems, 2009, 41, 1-11.	2.5	10
33	Performance analysis of cognitive radio networks with channel assembling and imperfect sensing. , 2012, , .		10
34	Algorithmic Analysis of the Sparre Andersen Model in Discrete Time. ASTIN Bulletin, 2007, 37, 293-317.	1.0	9
35	Predictive Channel Access in Cognitive Radio Networks Based on Variable Order Markov Models. , 2011, , .		9
36	Spatiotemporal Characterization of Users' Experience in Massive Cognitive Radio Networks. IEEE Access, 2020, 8, 57114-57125.	4.2	9

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37	Two classes of time-inhomogeneous Markov chains: Analysis of the periodic case. <i>Annals of Operations Research</i> , 2008, 160, 121-137.	4.1	8
38	Analysis of Distributed Reservation Protocol for UWB-Based WPANs with ECMA-368 MAC. , 2008, , .		8
39	Performance Analysis of a CSMA/CA Based MAC Protocol for Cognitive Radio Networks. , 2010, , .		8
40	Queueing Analysis of Performance Measures Under a New Configurable Channel Allocation in Cognitive Radio. <i>IEEE Transactions on Vehicular Technology</i> , 2018, 67, 9571-9582.	6.3	8
41	A Multi-User Tasks Offloading Scheme for Integrated Edge-Fog-Cloud Computing Environments. <i>IEEE Transactions on Vehicular Technology</i> , 2022, 71, 7487-7502.	6.3	8
42	A queueing model with time-varying QoS and call dropping for evaluating the performance of CDMA cellular systems. <i>Wireless Communications and Mobile Computing</i> , 2004, 4, 439-447.	1.2	7
43	Analysis of a contention-based opportunistic spectrum access under general channel activity model. <i>Performance Evaluation</i> , 2011, 68, 271-289.	1.2	7
44	Discrete-Time Analysis of Cognitive Radio Networks with Nonsaturated Source of Secondary Users. <i>Wireless Communications and Mobile Computing</i> , 2019, 2019, 1-12.	1.2	7
45	Algorithmic Analysis of the Sparre Andersen Model in Discrete Time. <i>ASTIN Bulletin</i> , 2007, 37, 293-317.	1.0	7
46	Tail Probability of Low-Priority Queue Length in a Discrete-Time Priority BMAP/PH/1 Queue. <i>Stochastic Models</i> , 2005, 21, 799-820.	0.5	6
47	Some decomposition results for a class of vacation queues. <i>Operations Research Letters</i> , 2014, 42, 140-144.	0.7	6
48	Discrete time Markov chain model for age of information. <i>Operations Research Letters</i> , 2020, 48, 552-557.	0.7	6
49	Receiver-Aided Spectrum Sensing Scheme with Spatial Differentiation in OFDM Based Cognitive Radio Networks. , 2010, , .		5
50	Optimization Techniques for Design Problems in Selected Areas in WSNs: A Tutorial. <i>Sensors</i> , 2017, 17, 1761.	3.8	5
51	A Discrete Time Queueing Model of Cognitive Radio Networks with Multi-Modal Overlay/Underlay Switching Service Levels. , 2018, , .		5
52	A Virtual Control Layer Resource Allocation Framework for Heterogeneous Cognitive Radio Network. <i>IEEE Access</i> , 2019, 7, 111605-111616.	4.2	5
53	Outage and Throughput Analysis of Cognitive Users in Underlay Cognitive Radio Networks With Handover. <i>IEEE Access</i> , 2020, 8, 208045-208057.	4.2	5
54	Secure cooperative multi-channel spectrum sensing in cognitive radio networks. , 2011, , .		4

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55	Geometric tail of queue length of low-priority customers in a nonpreemptive priority MAP/PH/1 queue. <i>Queueing Systems</i> , 2011, 69, 45-76.	0.9	4
56	Radio resource allocation for multicast transmissions over High Altitude Platforms. , 2013, , .		4
57	Queuing-theoretic modeling of a PMU communication network. , 2013, , .		4
58	A simple method to obtain the stochastic decomposition structure of the busy period in Geo/Geo/1/N vacation queue. <i>4or</i> , 2015, 13, 361-380.	1.6	4
59	An Optimal Admission Control Protocol for Heterogeneous Multicast Streaming Services. <i>IEEE Transactions on Communications</i> , 2015, 63, 2346-2359.	7.8	4
60	An Empirical Analysis of the Effect of Malicious Users in Decentralised Cognitive Radio Networks. , 2019, , .		4
61	Performance Analysis of Multi-Modal Overlay/Underlay Switching Service Levels in Cognitive Radio Networks. <i>IEEE Access</i> , 2019, 7, 78442-78453.	4.2	4
62	Distributed Routing Schemes with Accessibility Consideration in Multi-Hop Wireless Networks. <i>IEEE Transactions on Wireless Communications</i> , 2010, 9, 3178-3188.	9.2	3
63	Analysis of cognitive radio networks with channel assembling, buffering, and imperfect sensing. , 2013, , .		3
64	Power allocation framework for OFDMA-based relay-enhanced cellular networks. , 2013, , .		3
65	Power allocation framework for OFDMA-based decode-and-forward cellular relay networks. <i>Journal of Communications and Networks</i> , 2014, 16, 559-567.	2.6	3
66	Proactive channel access in cognitive radio networks based on users' statistics. , 2014, , .		3
67	Channel Assignments in Wireless Networks with Time-Varying Traffic Behaviors. , 2015, , .		3
68	Performance analysis of transmission scheduling in cognitive wireless sensor networks. , 2016, , .		3
69	Analysis of an ND-policy Geo/G/1 queue and its application to wireless sensor networks. <i>Operational Research</i> , 2019, 19, 449-477.	2.0	3
70	Optimal spectrum utilisation in cognitive radio networks based on processor sharing techniques. <i>International Journal of Communication Systems</i> , 2020, 33, e4242.	2.5	3
71	WSN15-1: Resource Allocation in Wireless Relay Networks. <i>IEEE Global Telecommunications Conference (GLOBECOM)</i> , 2006, , .	0.0	2
72	Capacity-Share Controlled Information-Theoretic Sum Capacity of Reverse Link Single-Cell CDMA Systems. <i>IEEE Vehicular Technology Conference</i> , 2007, , .	0.4	2

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73	Performance Analysis for Polling Service in IEEE 802.16 Networks Under PMP Mode. , 2008, , .		2
74	An Improvement on the Soft Reliability-Based Iterative Majority-Logic Decoding Algorithm for LDPC Codes. , 2010, , .		2
75	A Distributed Cooperative Attack on the Multi-Channel Spectrum Sensing: A Coalitional Game Study. , 2011, , .		2
76	Analysis of Cognitive Radio Networks with Channel Aggregation and Imperfect Sensing. , 2011, , .		2
77	Near Optimum Majority-Logic Based Decoding of Low-Density Parity-Check Codes. , 2011, , .		2
78	Adaptive dual-band radio spectrum sensing scheme in cognitive radio networks. Wireless Communications and Mobile Computing, 2013, 13, 1247-1262.	1.2	2
79	A model for bursty PU channel and its impact on the study of cognitive radio networks. , 2013, , .		2
80	Discrete-time GI/G/1 retrial queues with time-controlled vacation policies. Acta Mathematicae Applicatae Sinica, 2013, 29, 689-704.	0.7	2
81	A queueing theoretic model for opportunistic network coding. , 2013, , .		2
82	A Game Theoretic Power Allocation and Relay Load Balancing in OFDMA-Based DF Cellular Relay Networks. , 2013, , .		2
83	Dynamic load-balancing spectrum decision for cognitive radio networks with multi-class services. , 2015, , .		2
84	The construction of a common objective function for analytical infrastructures. , 2017, , .		2
85	Relaying techniques based outage analysis for mobile users in cognitive radio networks. , 2020, , .		2
86	A Multi-Class Channel Access Scheme for Cognitive Edge Computing-Based Internet of Things Networks. IEEE Transactions on Vehicular Technology, 2022, 71, 9912-9924.	6.3	2
87	ANALYSIS OF A GI/GY/1 SYSTEM IN DISCRETE-TIME. Stochastic Models, 2005, 21, 185-213.	0.5	1
88	Traffic analysis of heterogeneous mobile cellular networks using "wrap-up" cell structure. Telecommunication Systems, 2007, 34, 117-132.	2.5	1
89	Low-complexity iterative detection and decoding in finite geometry LDPC-coded MIMO systems. , 2009, , .		1
90	Discrete-time analysis of packet data discarding in high speed multimedia networks. , 2009, , .		1

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91	An improved channel model for cognitive radio. , 2012, , .		1
92	Lightweight key management in distributed multi-channel cognitive radio networks. , 2012, , .		1
93	Randomized policy for transmission scheduling in cognitive wireless sensor networks. , 2016, , .		1
94	Some analysis results associated with the optimization problem for a discrete-time finite-buffer NT-policy queue. Operational Research, 2016, 16, 161-179.	2.0	1
95	Decentralized Resource Allocation-Based Multiagent Deep Learning in Vehicular Network. IEEE Systems Journal, 2023, 17, 87-98.	4.6	1
96	Scheduling Stochastic jobs on a repairable machine with general phase type uptime. Mathematical Methods of Operations Research, 2005, 61, 399-417.	1.0	0
97	Optimizing Bandwidth Allocation of Different Traffic Classes for Traffic between an ISP and a Future Home Area Network. , 2007, , .		0
98	Greedy Sub-Channel Redistribution Routing Scheme in Multi-Hop Wireless OFDMA Networks. , 2009, , .		0
99	Routing in IEEE 802.16 based distributed wireless mesh networks. , 2009, , .		0
100	Efficient Implementation of Interior Point Decoding Based on Barrier Function for LDPC Codes. , 2010, , .		0
101	Balance the Trade-Off between the Accessibility and Performance of Distributed Routing Schemes in Multi-Hop Wireless Networks. , 2010, , .		0
102	Model for Call Acceptance Based on Handoff Guarantees for Two Classes of Users. , 2010, , .		0
103	A Weighted Queue-Based Model for Correlated Rayleigh and Rician Fading Channels. IEEE Transactions on Communications, 2011, 59, 3049-3058.	7.8	0
104	Goodput Analysis Using Terminating MAP for a Class of Discrete-Time Queueing Models. Stochastic Models, 2011, 27, 615-628.	0.5	0
105	Solving binary and continuous knapsack problems for radio resource allocation over High Altitude Platforms. , 2014, , .		0
106	Securing coalitional game for distributed cooperative spectrum sensing in multi-channel cognitive radio networks. Electronic Commerce Research, 2015, 15, 121-146.	5.0	0
107	Markov Based Computational Model for Performance Evaluation of Congestion Control Variants. , 2019, , .		0
108	Secure spectrum sensing in relay-based cognitive radio networks. Wireless Networks, 2021, 27, 3979-3994.	3.0	0