Attahiru S Alfa

List of Publications by Year
in descending order

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	Decentralized Resource Allocation-Based Multiagent Deep Learning in Vehicular Network. IEEE Systems Journal, 2023, 17, 87-98.	4.6	1
2	A Multi-User Tasks Offloading Scheme for Integrated Edge-Fog-Cloud Computing Environments. IEEE Transactions on Vehicular Technology, 2022, 71, 7487-7502.	6.3	8
3	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
4	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
5	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
6	Stochastic geometry approach towards interference management and control in cognitive radio network: A survey. Computer Communications, 2021, 166, 174-195.	5.1	11
7	Secure spectrum sensing in relay-based cognitive radio networks. Wireless Networks, 2021, 27, 3979-3994.	3.0	0
8	Resource Optimisation in 5G and Internet-of-Things Networking. Wireless Personal Communications, 2020, 111, 2671-2702.	2.7	28
9	Optimal spectrum utilisation in cognitive radio networks based on processor sharing techniques. International Journal of Communication Systems, 2020, 33, e4242.	2.5	3
10	Relaying techniques based outage analysis for mobile users in cognitive radio networks. , 2020, , .		2
11	Outage and Throughput Analysis of Cognitive Users in Underlay Cognitive Radio Networks With Handover. IEEE Access, 2020, 8, 208045-208057.	4.2	5
12	Discrete time Markov chain model for age of information. Operations Research Letters, 2020, 48, 552-557.	0.7	6
13	Spatiotemporal Characterization of Usersâ€™ Experience in Massive Cognitive Radio Networks. IEEE Access, 2020, 8, 57114-57125.	4.2	9
14	A Virtual Control Layer Resource Allocation Framework for Heterogeneous Cognitive Radio Network. IEEE Access, 2019, 7, 111605-111616.	4.2	5
15	Markov Based Computational Model for Performance Evaluation of Congestion Control Variants. , 2019, , .		0
16	Network Restoration in Wireless Sensor Networks for Next-Generation Applications. IEEE Sensors Journal, 2019, 19, 8352-8363.	4.7	15
17	An Empirical Analysis of the Effect of Malicious Users in Decentralised Cognitive Radio Networks. , 2019, , .		4
18	Performance Analysis of Multi-Modal Overlay/Underlay Switching Service Levels in Cognitive Radio Networks. IEEE Access, 2019, 7, 78442-78453.	4.2	4

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19	Discrete-Time Analysis of Cognitive Radio Networks with Nonsaturated Source of Secondary Users. Wireless Communications and Mobile Computing, 2019, 2019, 1-12.	1.2	7
20	Analysis of an ND-policy Geo/G/1 queue and its application to wireless sensor networks. Operational Research, 2019, 19, 449-477.	2.0	3
21	Denial of Service Defence for Resource Availability in Wireless Sensor Networks. IEEE Access, 2018, 6, 6975-7004.	4.2	94
22	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
23	A Discrete Time Queueing Model of Cognitive Radio Networks with Multi-Modal Overlay/Underlay Switching Service Levels. , 2018, , .		5
24	Queueing Analysis of Performance Measures Under a New Configurable Channel Allocation in Cognitive Radio. IEEE Transactions on Vehicular Technology, 2018, 67, 9571-9582.	6.3	8
25	Queueing Models for Cognitive Radio Networks: A Survey. IEEE Access, 2018, 6, 50801-50823.	4.2	32
26	A Statistical Approach to Detect Jamming Attacks in Wireless Sensor Networks. Sensors, 2018, 18, 1691.	3.8	94
27	Optimal resource allocation solutions for heterogeneous cognitive radio networks. Digital Communications and Networks, 2017, 3, 129-139.	5.0	30
28	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
29	Resource allocation in heterogeneous cooperative cognitive radio networks. International Journal of Communication Systems, 2017, 30, e3247.	2.5	11
30	The construction of a common objective function for analytical infrastructures. , 2017, , .		2
31	A Survey on an Energy-Efficient and Energy-Balanced Routing Protocol for Wireless Sensor Networks. Sensors, 2017, 17, 1084.	3.8	91
32	Optimization Techniques for Design Problems in Selected Areas in WSNs: A Tutorial. Sensors, 2017, 17, 1761.	3.8	5
33	Performance analysis of transmission scheduling in cognitive wireless sensor networks. , 2016, , .		3
34	Cooperative Prediction for Cognitive Radio Networks. Wireless Personal Communications, 2016, 89, 1177-1202.	2.7	18
35	Randomized policy for transmission scheduling in cognitive wireless sensor networks. , 2016, , .		1
36	Solving resource allocation problems in cognitive radio networks: a survey. Eurasip Journal on Wireless Communications and Networking, 2016, 2016, .	2.4	32

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37	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
38	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
39	Applied Discrete-Time Queues. , 2016, , .		64
40	Channel Assignments in Wireless Networks with Time-Varying Traffic Behaviors. , 2015, , .		3
41	A simple method to obtain the stochastic decomposition structure of the busy period in Geo/Geo/1/N vacation queue. 4or, 2015, 13, 361-380.	1.6	4
42	Dynamic load-balancing spectrum decision for cognitive radio networks with multi-class services. , 2015, , .		2
43	An Optimal Admission Control Protocol for Heterogeneous Multicast Streaming Services. IEEE Transactions on Communications, 2015, 63, 2346-2359.	7.8	4
44	Using Lagrangian Relaxation for Radio Resource Allocation in High Altitude Platforms. IEEE Transactions on Wireless Communications, 2015, 14, 5823-5835.	9.2	45
45	Securing coalitional game for distributed cooperative spectrum sensing in multi-channel cognitive radio networks. Electronic Commerce Research, 2015, 15, 121-146.	5.0	0
46	Power allocation framework for OFDMA-based decode-and-forward cellular relay networks. Journal of Communications and Networks, 2014, 16, 559-567.	2.6	3
47	Some decomposition results for a class of vacation queues. Operations Research Letters, 2014, 42, 140-144.	0.7	6
48	Proactive channel access in cognitive radio networks based on users' statistics. , 2014, , .		3
49	Solving binary and continuous knapsack problems for radio resource allocation over High Altitude Platforms. , 2014, , .		0
50	Achieving Maximum Throughput in Random Access Protocols with Multipacket Reception. IEEE Transactions on Mobile Computing, 2014, 13, 497-511.	5.8	28
51	Adaptive dualâ€radio spectrumâ€sensing scheme in cognitive radio networks. Wireless Communications and Mobile Computing, 2013, 13, 1247-1262.	1.2	2
52	A model for bursty PU channel and its impact on the study of cognitive radio networks. , 2013, , .		2
53	Analysis of cognitive radio networks with channel assembling, buffering, and imperfect sensing. , 2013, , .		3
54	Discrete-time GI/G/1 retrial queues with time-controlled vacation policies. Acta Mathematicae Applicatae Sinica, 2013, 29, 689-704.	0.7	2

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55	Power allocation framework for OFDMA-based relay-enhanced cellular networks. , 2013, , .		3
56	A queueing theoretic model for opportunistic network coding. , 2013, , .		2
57	Radio resource allocation for multicast transmissions over High Altitude Platforms. , 2013, , .		4
58	Queuing-theoretic modeling of a PMU communication network. , 2013, , .		4
59	A Game Theoretic Power Allocation and Relay Load Balancing in OFDMA-Based DF Cellular Relay Networks. , 2013, , .		2
60	An improved channel model for cognitive radio. , 2012, , .		1
61	Lightweight key management in distributed multi-channel cognitive radio networks. , 2012, , .		1
62	Performance analysis of cognitive radio networks with channel assembling and imperfect sensing. , 2012, , .		10
63	Predictive Channel Access in Cognitive Radio Networks Based on Variable Order Markov Models. , 2011, , .		9
64	A Distributed Cooperative Attack on the Multi-Channel Spectrum Sensing: A Coalitional Game Study. , 2011, , .		2
65	Analysis of Cognitive Radio Networks with Channel Aggregation and Imperfect Sensing. , 2011, , .		2
66	Near Optimum Majority-Logic Based Decoding of Low-Density Parity-Check Codes. , 2011, , .		2
67	A Weighted Queue-Based Model for Correlated Rayleigh and Rician Fading Channels. IEEE Transactions on Communications, 2011, 59, 3049-3058.	7.8	0
68	Secure cooperative multi-channel spectrum sensing in cognitive radio networks. , 2011, , .		4
69	Geometric tail of queue length of low-priority customers in a nonpreemptive priority MAP/PH/1 queue. Queueing Systems, 2011, 69, 45-76.	0.9	4
70	Analysis of a contention-based opportunistic spectrum access under general channel activity model. Performance Evaluation, 2011, 68, 271-289.	1.2	7
71	Goodput Analysis Using Terminating MAP for a Class of Discrete-Time Queueing Models. Stochastic Models, 2011, 27, 615-628.	0.5	0
72	Application of Mobility Prediction in Wireless Networks Using Markov Renewal Theory. IEEE Transactions on Vehicular Technology, 2010, 59, 788-802.	6.3	66

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73	Efficient Implementation of Interior Point Decoding Based on Barrier Function for LDPC Codes. , 2010, , .		0
74	An Improvement on the Soft Reliability-Based Iterative Majority-Logic Decoding Algorithm for LDPC Codes. , 2010, , .		2
75	Distributed Cooperative Multi-Channel Spectrum Sensing Based on Dynamic Coalitional Game. , 2010, , .		26
76	Distributed Routing Schemes with Accessibility Consideration in Multi-Hop Wireless Networks. IEEE Transactions on Wireless Communications, 2010, 9, 3178-3188.	9.2	3
77	Receiver-Aided Spectrum Sensing Scheme with Spatial Differentiation in OFDM Based Cognitive Radio Networks. , 2010, , .		5
78	Performance Analysis of Modified IEEE 802.11-Based Cognitive Radio Networks. IEEE Communications Letters, 2010, 14, 975-977.	4.1	44
79	Queueing Theory for Telecommunications. , 2010, , .		132
80	Balance the Trade-Off between the Accessibility and Performance of Distributed Routing Schemes in Multi-Hop Wireless Networks. , 2010, , .		0
81	Model for Call Acceptance Based on Handoff Guarantees for Two Classes of Users. , 2010, , .		0
82	Performance Analysis of a CSMA/CA Based MAC Protocol for Cognitive Radio Networks. , 2010, , .		8
83	Low-complexity iterative detection and decoding in finite geometry LDPC-coded MIMO systems. , 2009, , .		1
84	Computationally efficient method for analyzing guard channel schemes. Telecommunication Systems, 2009, 41, 1-11.	2.5	10
85	Greedy Sub-Channel Redistribution Routing Scheme in Multi-Hop Wireless OFDMA Networks. , 2009, , .		0
86	Discrete-time analysis of packet data discarding in high speed multimedia networks. , 2009, , .		1
87	Routing in IEEE 802.16 based distributed wireless mesh networks. , 2009, , .		0
88	Two classes of time-inhomogeneous Markov chains: Analysis of the periodic case. Annals of Operations Research, 2008, 160, 121-137.	4.1	8
89	Analysis of Distributed Reservation Protocol for UWB-Based WPANs with ECMA-368 MAC. , 2008, , .		8
90	Performance Analysis for Polling Service in IEEE 802.16 Networks Under PMP Mode. , 2008, , .		2

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91	Mobility Prediction and Spatial-Temporal Traffic Estimation in Wireless Networks. IEEE Vehicular Technology Conference, 2008, , .	0.4	13
92	Capacity-Share Controlled Information-Theoretic Sum Capacity of Reverse Link Single-Cell CDMA Systems. IEEE Vehicular Technology Conference, 2007, , .	0.4	2
93	Algorithmic Analysis of the Sparre Andersen Model in Discrete Time. ASTIN Bulletin, 2007, 37, 293-317.	1.0	9
94	Optimizing Bandwidth Allocation of Different Traffic Classes for Traffic between an ISP and a Future Home Area Network. , 2007, , .		0
95	Traffic analysis of heterogeneous mobile cellular networks using â€œwrap-upâ€•cell structure. Telecommunication Systems, 2007, 34, 117-132.	2.5	1
96	Algorithmic Analysis of the Sparre Andersen Model in Discrete Time. ASTIN Bulletin, 2007, 37, 293-317.	1.0	7
97	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
98	IP Traffic Matrix Estimation Methods: Comparisons and Improvements. , 2006, , .		29
99	WSN15-1: Resource Allocation in Wireless Relay Networks. IEEE Global Telecommunications Conference (GLOBECOM), 2006, , .	0.0	2
100	Scheduling Stochastic jobs on a repairable machine with general phase type uptime. Mathematical Methods of Operations Research, 2005, 61, 399-417.	1.0	0
101	Tail Probability of Low-Priority Queue Length in a Discrete-Time Priority BMAP/PH/1 Queue. Stochastic Models, 2005, 21, 799-820.	0.5	6
102	ANALYSIS OF A GI/GY/1 SYSTEM IN DISCRETE-TIME. Stochastic Models, 2005, 21, 185-213.	0.5	1
103	A queueing model with time-varying QoS and call dropping for evaluating the performance of CDMA cellular systems. Wireless Communications and Mobile Computing, 2004, 4, 439-447.	1.2	7
104	Vacation models in discrete time. Queueing Systems, 2003, 44, 5-30.	0.9	53
105	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
106	Discrete-time analysis ofMAP/PH/1 multiclass general preemptive priority queue. Naval Research Logistics, 2003, 50, 662-682.	2.2	23
107	Discrete time queues and matrix-analytic methods. Top, 2002, 10, 147-185.	1.6	34
108	A multiserver queue with markovian arrivals and group services with thresholds. Naval Research Logistics, 1993, 40, 811-827.	2.2	15