

# Ayaz Ahmad

## List of Publications by Year in descending order

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69  
papers

1,161  
citations

567281

15  
h-index

434195

31  
g-index

69  
all docs

69  
docs citations

69  
times ranked

1396  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Survey on Radio Resource Allocation in Cognitive Radio Sensor Networks. IEEE Communications Surveys and Tutorials, 2015, 17, 888-917.	39.4	224
2	A review of EVs charging: From the perspective of energy optimization, optimization approaches, and charging techniques. Transportation Research, Part D: Transport and Environment, 2018, 62, 386-417.	6.8	125
3	Understanding Customer Behavior in Multi-Tier Demand Response Management Program. IEEE Access, 2015, 3, 2613-2625.	4.2	89
4	Smart energy-consumption management system considering consumers' spending goals (SEMS-CCSG). International Transactions on Electrical Energy Systems, 2016, 26, 1570-1584.	1.9	47
5	A Compendium of Performance Metrics, Pricing Schemes, Optimization Objectives, and Solution Methodologies of Demand Side Management for the Smart Grid. Energies, 2018, 11, 2801.	3.1	46
6	Low complexity approach for energy management in residential buildings. International Transactions on Electrical Energy Systems, 2019, 29, e2680.	1.9	36
7	Unified optimization model for energy management in sustainable smart power systems. International Transactions on Electrical Energy Systems, 2020, 30, e12144.	1.9	35
8	Resource allocation, interference management, and mode selection in device-to-device communication: A survey. Transactions on Emerging Telecommunications Technologies, 2017, 28, e3148.	3.9	33
9	Efficient sizing and placement of distributed generators in cyber-physical power systems. Journal of Systems Architecture, 2019, 97, 197-207.	4.3	31
10	Applications of Independent Component Analysis in Wireless Communication Systems. Wireless Personal Communications, 2015, 83, 2711-2737.	2.7	30
11	Computationally efficient selective video encryption with chaos based block cipher. Multimedia Tools and Applications, 2018, 77, 27981-27995.	3.9	27
12	Polynomial-Complexity Optimal Resource Allocation Framework for Uplink SC-FDMA Systems. , 2011, , .		24
13	Automatic and Efficient Fault Detection in Rotating Machinery using Sound Signals. Acoustics Australia, 2019, 47, 125-139.	2.4	24
14	Characteristics of Silicone Composites for High Voltage Insulations. Reviews on Advanced Materials Science, 2018, 56, 91-123.	3.3	23
15	Efficient Energy Management in a Microgrid. , 2018, , .		22
16	Joint RRH-Association, Sub-Channel Assignment and Power Allocation in Multi-Tier 5G C-Rans. IEEE Access, 2018, 6, 34393-34402.	4.2	20
17	Joint Power Control and Rate Adaptation for Video Streaming in Wireless Networks With Time-Varying Interference. IEEE Transactions on Vehicular Technology, 2016, 65, 6315-6329.	6.3	18
18	Optimal Resource Allocation Framework for Downlink OFDMA System with Channel Estimation Error. , 2010, , .		17

#	ARTICLE	IF	CITATIONS
19	Joint resource optimization and relay selection in cooperative cellular networks with imperfect channel knowledge. , 2010, , .		15
20	Investigation of electrical, tracking/erosion, and water absorption resistance properties of ATH-SiO <sub>2</sub> -reinforced RTV-SiR composites for high-voltage insulations. Journal of Elastomers and Plastics, 2018, 50, 501-519.	1.5	15
21	Power efficient resource allocation in uplink SC-FDMA systems. , 2011, , .		12
22	Neighborsâ€™ interference situation-aware power control scheme for dense 5G mobile communication system. Telecommunication Systems, 2018, 67, 443-450.	2.5	12
23	Automatic Student Modelling for Detection of Learning Styles and Affective States in Web Based Learning Management Systems. IEEE Access, 2019, 7, 128242-128262.	4.2	11
24	Energy-efficient resource allocation and RRH association in multitier 5G Hâ€CRANs. Transactions on Emerging Telecommunications Technologies, 2019, 30, e3521.	3.9	11
25	Cooperation Based Proactive Caching in Multi-Tier Cellular Networks. Applied Sciences (Switzerland), 2020, 10, 6145.	2.5	11
26	ICA Based MIMO Transceiver For Time Varying Wireless Channels Utilizing Smaller Data Blocks Lengths. Wireless Personal Communications, 2017, 94, 3147-3161.	2.7	10
27	Energy efficient joint radio resource management in D2D assisted cellular communication. Telecommunication Systems, 2018, 69, 505-517.	2.5	10
28	Resource Allocation and Adaptive Modulation in Uplink SC-FDMA Systems. Wireless Personal Communications, 2014, 75, 2217-2242.	2.7	9
29	A joint resource optimization and adaptive modulation framework for uplink single-carrier frequency-division multiple access systems. International Journal of Communication Systems, 2015, 28, 437-456.	2.5	9
30	A cross-layer approach for partition detection at overlay layer for structured P2P in MANETs. Peer-to-Peer Networking and Applications, 2016, 9, 356-371.	3.9	9
31	Optimal energy-efficient resource allocation in uplink SC-FDMA networks. Transactions on Emerging Telecommunications Technologies, 2017, 28, e3153.	3.9	9
32	Adaptive Step Size Gradient Ascent ICA Algorithm for Wireless MIMO Systems. Mobile Information Systems, 2018, 2018, 1-9.	0.6	9
33	Energy-efficient RRH-association and resource allocation in D2D enabled multi-tier 5G C-RAN. Telecommunication Systems, 2020, 74, 129-143.	2.5	9
34	Margin adaptive resource allocation in downlink OFDMA system with outdated channel state information. , 2009, , .		8
35	Swarm Intelligence Based Resource Management for Cooperative Cognitive Radio Network in Smart Hospitals. Wireless Personal Communications, 2018, 98, 571-592.	2.7	8
36	Optimal power and subcarriers allocation in downlink OFDMA system with imperfect channel knowledge. Optimization and Engineering, 2013, 14, 477-499.	2.4	7

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37	Uplink optimal power allocation for heterogeneous multiuser SIMO SCâ€FDMA networks. Electronics Letters, 2016, 52, 1990-1992.	1.0	7
38	Modified Infomax Algorithm for Smaller Data Block Lengths. Wireless Personal Communications, 2016, 87, 245-267.	2.7	7
39	AC-DSE: Approximate Computing for the Design Space Exploration of Reconfigurable MPSoCs. Journal of Circuits, Systems and Computers, 2018, 27, 1850145.	1.5	7
40	Joint energy efficient power and subchannel allocation for uplink MCâ€NOMA networks. International Journal of Communication Systems, 2020, 33, e4606.	2.5	7
41	Multistress Accelerated Aging and Tracking/Erosion-Resistance Investigation of High Voltage Polymeric Insulators. Arabian Journal for Science and Engineering, 2017, 42, 5101-5120.	3.0	6
42	NSGA-II-Based Design Space Exploration for Energy and Throughput Aware Multicore Architectures. Cybernetics and Systems, 2017, 48, 536-550.	2.5	6
43	Optimizing energy and throughput for MPSoCs: an integer particle swarm optimization approach. Computing (Vienna/New York), 2018, 100, 227-244.	4.8	6
44	Proactive Caching in D2D Assisted Multitier Cellular Network. Sensors, 2022, 22, 5078.	3.8	6
45	Resource allocation for SCâ€FDMA based cognitive radio systems. International Journal of Communication Systems, 2017, 30, e3046.	2.5	5
46	On the mutual information of relaying protocols. Physical Communication, 2018, 30, 33-42.	2.1	5
47	Optimized Energy Consumption and Demand Side Management in Smart Grid. , 0, , 550-574.		5
48	Resource Allocation for OFDMA Based Cognitive Radio Networks with Arbitrarily Distributed Finite Power Inputs. Wireless Personal Communications, 2016, 88, 839-854.	2.7	4
49	A Multi-Objective Integer Melody Search Algorithm. Applied Artificial Intelligence, 2019, 33, 208-228.	3.2	4
50	Consumer Energy Management in Residential Distribution Power System Considering Consumerâ€™s Privacy. , 2021, , .		4
51	Robust channel quality indicator reporting for multi-carrier and multi-user systems. Computer Networks, 2014, 74, 78-88.	5.1	3
52	Ant Colony Optimization for multicore re-configurable architecture. AI Communications, 2016, 29, 595-606.	1.2	3
53	Power allocation for uplink SCâ€FDMA systems with arbitrary input distribution. Electronics Letters, 2016, 52, 111-113.	1.0	3
54	Integer cat swarm optimization algorithm for multiobjective integer problems. Soft Computing, 2020, 24, 1927-1955.	3.6	3

#	ARTICLE	IF	CITATIONS
55	An Efficient and Scalable Routing for MANETs. <i>Wireless Personal Communications</i> , 2014, 75, 987-1004.	2.7	2
56	Multi-tier incentive scheme for residential customer participation in demand response management programs. , 2015, , .		2
57	Short-Term Load Forecasting Using Hybrid Neural Network. <i>International Journal of Applied Metaheuristic Computing</i> , 2021, 12, 142-156.	0.7	2
58	Optimized Energy Consumption and Demand Side Management in Smart Grid. <i>Advances in Environmental Engineering and Green Technologies Book Series</i> , 2016, , 1-25.	0.4	2
59	Detection of Multiple Drones in a Time-Varying Scenario Using Acoustic Signals. <i>Sustainability</i> , 2022, 14, 4041.	3.2	2
60	A compendium of optimization techniques for green radio resource management. <i>Telecommunication Systems</i> , 2017, 66, 447-468.	2.5	1
61	Estimation of distribution-based multiobjective design space exploration for energy and throughput-optimized MPSoCs. <i>Turkish Journal of Electrical Engineering and Computer Sciences</i> , 2020, 28, 540-555.	1.4	1
62	GAâ€“EDA: Hybrid Design Space Exploration Engine for Multicore Architecture. <i>Journal of Circuits, Systems and Computers</i> , 2021, 30, 2150181.	1.5	1
63	Radio Resource Management in Cognitive Radio Sensor Networks. <i>Advances in Wireless Technologies and Telecommunication Book Series</i> , 2014, , 27-47.	0.4	1
64	Spectrum Sensing in Cognitive Radio Sensor Networks. <i>Advances in Wireless Technologies and Telecommunication Book Series</i> , 2014, , 48-72.	0.4	1
65	An Enhanced Simulation Framework for the Performance Evaluation of On-Chip Network Designs. , 2018, , .		0
66	Resource Allocation Techniques for SC-FDMA Networks. <i>Advances in Wireless Technologies and Telecommunication Book Series</i> , 2021, , 121-156.	0.4	0
67	Applications of Independent Component Analysis in Cognitive Radio Sensor Networks. <i>Advances in Wireless Technologies and Telecommunication Book Series</i> , 2014, , 259-287.	0.4	0
68	Signal Processing Techniques in Smart Grids. <i>Advances in Environmental Engineering and Green Technologies Book Series</i> , 2016, , 273-297.	0.4	0
69	Handoff Management in Macro-Femto Cellular Networks. <i>Advances in Wireless Technologies and Telecommunication Book Series</i> , 2019, , 227-249.	0.4	0