Ayaz Ahmad

List of Publications by Year
in descending order

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	Detection of Multiple Drones in a Time-Varying Scenario Using Acoustic Signals. Sustainability, 2022, 14, 4041.	3.2	2
2	Proactive Caching in D2D Assisted Multitier Cellular Network. Sensors, 2022, 22, 5078.	3.8	6
3	Short-Term Load Forecasting Using Hybrid Neural Network. International Journal of Applied Metaheuristic Computing, 2021, 12, 142-156.	0.7	2
4	GA–EDA: Hybrid Design Space Exploration Engine for Multicore Architecture. Journal of Circuits, Systems and Computers, 2021, 30, 2150181.	1.5	1
5	Resource Allocation Techniques for SC-FDMA Networks. Advances in Wireless Technologies and Telecommunication Book Series, 2021, , 121-156.	0.4	0
6	Consumer Energy Management in Residential Distribution Power System Considering Consumer's Privacy. , 2021, , .		4
7	Integer cat swarm optimization algorithm for multiobjective integer problems. Soft Computing, 2020, 24, 1927-1955.	3.6	3
8	Unified optimization model for energy management in sustainable smart power systems. International Transactions on Electrical Energy Systems, 2020, 30, e12144.	1.9	35
9	Energy-efficient RRH-association and resource allocation in D2D enabled multi-tier 5G C-RAN. Telecommunication Systems, 2020, 74, 129-143.	2.5	9
10	Cooperation Based Proactive Caching in Multi-Tier Cellular Networks. Applied Sciences (Switzerland), 2020, 10, 6145.	2.5	11
11	Joint energy efficient power and subchannel allocation for uplink MC–NOMA networks. International Journal of Communication Systems, 2020, 33, e4606.	2.5	7
12	Estimation of distribution-based multiobjective design space exploration for energy and throughput-optimized MPSoCs. Turkish Journal of Electrical Engineering and Computer Sciences, 2020, 28, 540-555.	1.4	1
13	Low complexity approach for energy management in residential buildings. International Transactions on Electrical Energy Systems, 2019, 29, e2680.	1.9	36
14	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
15	Efficient sizing and placement of distributed generators in cyber-physical power systems. Journal of Systems Architecture, 2019, 97, 197-207.	4.3	31
16	Automatic and Efficient Fault Detection in Rotating Machinery using Sound Signals. Acoustics Australia, 2019, 47, 125-139.	2.4	24
17	A Multi-Objective Integer Melody Search Algorithm. Applied Artificial Intelligence, 2019, 33, 208-228.	3.2	4
18	Energy–efficient resource allocation and RRH association in multitier 5G H–CRANs. Transactions on Emerging Telecommunications Technologies, 2019, 30, e3521.	3.9	11

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19	Handoff Management in Macro-Femto Cellular Networks. Advances in Wireless Technologies and Telecommunication Book Series, 2019, , 227-249.	0.4	0
20	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
21	AC-DSE: Approximate Computing for the Design Space Exploration of Reconfigurable MPSoCs. Journal of Circuits, Systems and Computers, 2018, 27, 1850145.	1.5	7
22	Computationally efficient selective video encryption with chaos based block cipher. Multimedia Tools and Applications, 2018, 77, 27981-27995.	3.9	27
23	Neighborsâ€™ interference situation-aware power control scheme for dense 5G mobile communication system. Telecommunication Systems, 2018, 67, 443-450.	2.5	12
24	Investigation of electrical, tracking/erosion, and water absorption resistance properties of ATH-SiO$_2$-reinforced RTV-SiR composites for high-voltage insulations. Journal of Elastomers and Plastics, 2018, 50, 501-519.	1.5	15
25	Optimizing energy and throughput for MPSoCs: an integer particle swarm optimization approach. Computing (Vienna/New York), 2018, 100, 227-244.	4.8	6
26	Swarm Intelligence Based Resource Management for Cooperative Cognitive Radio Network in Smart Hospitals. Wireless Personal Communications, 2018, 98, 571-592.	2.7	8
27	An Enhanced Simulation Framework for the Performance Evaluation of On-Chip Network Designs. , 2018, , .		0
28	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
29	Characteristics of Silicone Composites for High Voltage Insulations. Reviews on Advanced Materials Science, 2018, 56, 91-123.	3.3	23
30	Efficient Energy Management in a Microgrid. , 2018, , .		22
31	Adaptive Step Size Gradient Ascent ICA Algorithm for Wireless MIMO Systems. Mobile Information Systems, 2018, 2018, 1-9.	0.6	9
32	On the mutual information of relaying protocols. Physical Communication, 2018, 30, 33-42.	2.1	5
33	Energy efficient joint radio resource management in D2D assisted cellular communication. Telecommunication Systems, 2018, 69, 505-517.	2.5	10
34	Joint RRH-Association, Sub-Channel Assignment and Power Allocation in Multi-Tier 5G C-Rans. IEEE Access, 2018, 6, 34393-34402.	4.2	20
35	Resource allocation for SCâ€FDMA based cognitive radio systems. International Journal of Communication Systems, 2017, 30, e3046.	2.5	5
36	Optimal energyâ€efficient resource allocation in uplink SCâ€FDMA networks. Transactions on Emerging Telecommunications Technologies, 2017, 28, e3153.	3.9	9

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37	A compendium of optimization techniques for green radio resource management. Telecommunication Systems, 2017, 66, 447-468.	2.5	1
38	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
39	ICA Based MIMO Transceiver For Time Varying Wireless Channels Utilizing Smaller Data Blocks Lengths. Wireless Personal Communications, 2017, 94, 3147-3161.	2.7	10
40	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
41	NSGA-II-Based Design Space Exploration for Energy and Throughput Aware Multicore Architectures. Cybernetics and Systems, 2017, 48, 536-550.	2.5	6
42	Smart energy-consumption management system considering consumers' spending goals (SEMS-CCSG). International Transactions on Electrical Energy Systems, 2016, 26, 1570-1584.	1.9	47
43	Ant Colony Optimization for multicore re-configurable architecture. AI Communications, 2016, 29, 595-606.	1.2	3
44	Uplink optimal power allocation for heterogeneous multiuser SIMO SC‐FDMA networks. Electronics Letters, 2016, 52, 1990-1992.	1.0	7
45	Power allocation for uplink SC‐FDMA systems with arbitrary input distribution. Electronics Letters, 2016, 52, 111-113.	1.0	3
46	Resource Allocation for OFDMA Based Cognitive Radio Networks with Arbitrarily Distributed Finite Power Inputs. Wireless Personal Communications, 2016, 88, 839-854.	2.7	4
47	Modified Infomax Algorithm for Smaller Data Block Lengths. Wireless Personal Communications, 2016, 87, 245-267.	2.7	7
48	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
49	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
50	Optimized Energy Consumption and Demand Side Management in Smart Grid. Advances in Environmental Engineering and Green Technologies Book Series, 2016, , 1-25.	0.4	2
51	Signal Processing Techniques in Smart Grids. Advances in Environmental Engineering and Green Technologies Book Series, 2016, , 273-297.	0.4	0
52	Multi-tier incentive scheme for residential customer participation in demand response management programs. , 2015, , .		2
53	Understanding Customer Behavior in Multi-Tier Demand Response Management Program. IEEE Access, 2015, 3, 2613-2625.	4.2	89
54	A Survey on Radio Resource Allocation in Cognitive Radio Sensor Networks. IEEE Communications Surveys and Tutorials, 2015, 17, 888-917.	39.4	224

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55	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
56	Applications of Independent Component Analysis in Wireless Communication Systems. Wireless Personal Communications, 2015, 83, 2711-2737.	2.7	30
57	Robust channel quality indicator reporting for multi-carrier and multi-user systems. Computer Networks, 2014, 74, 78-88.	5.1	3
58	Resource Allocation and Adaptive Modulation in Uplink SC-FDMA Systems. Wireless Personal Communications, 2014, 75, 2217-2242.	2.7	9
59	An Efficient and Scalable Routing for MANETs. Wireless Personal Communications, 2014, 75, 987-1004.	2.7	2
60	Radio Resource Management in Cognitive Radio Sensor Networks. Advances in Wireless Technologies and Telecommunication Book Series, 2014, , 27-47.	0.4	1
61	Spectrum Sensing in Cognitive Radio Sensor Networks. Advances in Wireless Technologies and Telecommunication Book Series, 2014, , 48-72.	0.4	1
62	Applications of Independent Component Analysis in Cognitive Radio Sensor Networks. Advances in Wireless Technologies and Telecommunication Book Series, 2014, , 259-287.	0.4	0
63	Optimal power and subcarriers allocation in downlink OFDMA system with imperfect channel knowledge. Optimization and Engineering, 2013, 14, 477-499.	2.4	7
64	Power efficient resource allocation in uplink SC-FDMA systems. , 2011, , .		12
65	Polynomial-Complexity Optimal Resource Allocation Framework for Uplink SC-FDMA Systems. , 2011, , .		24
66	Optimal Resource Allocation Framework for Downlink OFDMA System with Channel Estimation Error. , 2010, , .		17
67	Joint resource optimization and relay selection in cooperative cellular networks with imperfect channel knowledge. , 2010, , .		15
68	Margin adaptive resource allocation in downlink OFDMA system with outdated channel state information. , 2009, , .		8
69	Optimized Energy Consumption and Demand Side Management in Smart Grid. , 0, , 550-574.		5