Umar Ghafoor

Assistant Professor

Military College of Signals

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Contact:



About

Dr. Umar Ghafoor is working as Assistant Professor in the Military College of Signals. Dr. Umar Ghafoor has a PhD in Wireless Communication. Dr. Umar Ghafoor has published 18 research articles & conference papers having a citation count of 114, carried out 0 projects and filed 0 intellectual property.

Qualifications

GCUF, Faisalabad

PhD in Wireless Communication NUST, Islamabad , Pakistan	2017 - 2023
MS in Telecommunication Engineering NUST, Islamabad , Pakistan	2011 - 2014
BSc in Telecommunication Engineering NUST, Islamabad , Pakistan	2004 - 2008
Experience	
Assistant Professor Military College of Signals	2024- Present
Assistant Professor UMT , Sialkot	2016 - 2017
Lecturer UMT , Sialkot	2014 - 2016
Teaching Assistant MCS NUST , Rawalpindi	2012 - 2012
Lecturer/Lab Engineer	2008 - 2011

Research Articles

DOI: https://doi.org/10.1016/j.jnca.2022.103413

Fair association and rate maximization in 6G UAV Aided HS only network and HetNet Umar Ghafoor	2025
Journal of Network and Computer Applications, Volume:239, Article Number 104174	
Impact Factor: 7.700 Quartile: 1	
DOI: https://doi.org/10.1016/j.jnca.2025.104174	
Strengthening Data Confidentiality in 6G Cognitive Networks through Secrecy Rate Optimization Umar Ghafoor	2025
IEEE Communications Letters, Volume:29, Issue: 4, Page(s):665-668	
Impact Factor: 3.700 Quartile: 2 Citations: 1	
DOI: 10.1109/LCOMM.2025.3537285	
Dynamic Resource Optimization for Quality of Service-Driven Cost Minimization in Cognitive Radio	2024
Networks Unana Chafana Adil Mana di Ciddinni	
Umar Ghafoor Adil Masood Siddiqui Wireless Personal Communications, Volume 139, Pages 2161-2201	
•	
Impact Factor: 1.900 Quartile: 3 Citations: 1 DOI: 10.1007/s11277-024-11711-1	
6G cognitive radio: Optimizing resources with cluster-assisted downlink hybrid multiple access	2024
Umar Ghafoor Adil Masood Siddiqui	
Physical Communication, Volume 66, Article Number 102435	
Impact Factor: 2.000 Quartile: 2 Citations: 2	
DOI: 10.1016/j.phycom.2024.102435	
Maximizing throughput and energy efficiency in 6G based on phone user clustering enabled UAV	2024
assisted downlink hybrid multiple access HetNet Umar Ghafoor Tahreem Ashraf	
Telecommunication Systems, Volume 85, Issue 4, Pages 563-590	
Impact Factor: 2.500 Quartile: 3 Citations: 7	
DOI: 10.1007/s11235-024-01101-0	
Cluster based resource management using H-NOMA in heterogeneous networks beyond 5G	2023
Umar Ghafoor Humayum Zubair Khan Adil Masood Siddiqui Mudassar Ali Abdul Rauf Arif Wahla Muhammad Naeem	
Ad Hoc Networks, Volume 149, Article Number 103252	
Impact Factor: 4.8 Quartile: 2 Citations: 8	
DOI: https://doi.org/10.1016/j.adhoc.2023.103252	
Energy Efficient Resource Allocation for H-NOMA Assisted B5G HetNets	2022
Umar Ghafoor Humayun Zubair Khan Mudassar Ali Adil Masood Siddiqui Muhammad Naeem Imran Rashid	
IEEE Access , Volume 10, Pages 91699 - 91711	
Impact Factor: 3.476 Quartile: 2 Citations: 13	
DOI: 10.1109/ACCESS.2022.3201527	
Efficient resource allocation for hybrid nonorthogonal multiple access based heterogeneous networks	2022
beyond fifth-generation	
Umar Ghafoor Mudassar Ali Humayun Zubair Khan Adil Masood Siddiqui Muhammad Naeem Transaction on Emerging Telecommunications Technologies, Pages 1-23	
Impact Factor: 3.310 Quartile: 2 Citations: 5	
DOI: doi.org/10.1002/ett.4630	
NOMA and future 5G & B5G wireless networks: A paradigm	2022
Umar Ghafoor Mudassar Ali Humayun Zubair Khan Adil Masood Saddiqui Muhammad Naeem	
Journal of Network and Computer Applications, Volume 204, Article Number 103413	
Impact Factor: 8.7 Quartile: 1 Citations: 77	

Conference Proceedings

Enhancing 6G Network Security Through Cognitive Radio and Cluster-Assisted Downlink Hybrid Multiple Access Umar Ghafoor Adil Masood Siddiqui 2024 International Conference on Frontiers of Information Technology (FIT), res.country(177,) Citations: N/A DOI: 10.1109/FIT63703.2024.10838428	2024
A Novel Approach for Quality of Service Based Cost Minimization in a Cognitive Radio Network Umar Ghafoor Adil Masood Siddiqui Mudassar Ali 2024 4th International Conference on Digital Futures and Transformative Technologies (ICoDT2), res.country(177,) Citations: N/A DOI: 10.1109/ICoDT262145.2024.10740207	2024
Novel 6G Network: Maximizing Sum Rate and User Association by Minimizing Cost Ensuring QoS Umar Ghafoor Adil Masood Siddiqui 2024 21st International Bhurban Conference on Applied Sciences and Technology (IBCAST), res.country(177,) Citations: N/A DOI: 10.1109/IBCAST61650.2024.10877248	2024
Holistic Optimization of Rate and EE in UAV-Assisted HetNets Umar Ghafoor Mudassar Ali Adil Masood Siddiqui Waleed Ejaz IEEE INFOCOM 2024 - IEEE Conference on Computer Communications Workshops (INFOCOM WKSHPS), res.country(177,) Citations: N/A DOI: 10.1109/INFOCOMWKSHPS61880.2024.10620714	2024
Secrecy Rate Maximization based on User Clustering in Hybrid-NOMA Assisted HetNets for B5G/6G Umar Ghafoor Adil Masood Siddiqui Humayun Zubair Khan Mudassar Ali Proceedings - IEEE Global Communications Conference, GLOBECOM, res.country(157,) Citations: N/A DOI: 10.1109/GLOBECOM54140.2023.10436806	2023
Admission, Association, and Rate Maximization in a UAV Assisted User Clustering Based Downlink Hybrid Multiple Access HetNets Umar Ghafoor Mudassar Ali Adil Masood Siddiqui 20th IBCAST2023 International Bhurban Conference on Applied Sciences & Technology, res.country(177,) Citations: N/A DOI: 10.1109/IBCAST59916.2023.10712800	2023
Sum Rate Maximization Based on Mobile User Clustering Assisted Downlink H-NOMA in 4-Tier B5G HetNet Umar Ghafoor Adil Masood Siddiqui Humayun Zubair Khan Mudassar Ali 2023 International Conference on Communication Technologies (ComTech), res.country(177,) Citations: N/A DOI: 10.1109/ComTech57708.2023.10165063	2023
Energy Efficiency Optimization for Hybrid NOMA based Beyond 5G Heterogeneous Networks Umar Ghafoor Mudassar Ali Humayun Zubair Khan Adil Masood Siddiqui1 Muhammad Naeem Imran Rashid 2021 IEEE 94th Vehicular Technology Conference (VTC2021-Fall), res.country(233,) Citations: N/A DOI: 10.1109/VTC2021-Fall52928.2021.9625334	2021
Throughput Maximization in Hybrid NOMA assisted Beyond 5G Heterogeneous Networks Umar Ghafoor Humayun Zubair Khan Adil Masood Saddiqui Muhammad Naeem Mudassar Ali 2021 International Wireless Communications and Mobile Computing (IWCMC), res.country(48,) Citations: N/A DOI: 10.1109/IWCMC51323.2021.9498930	2021
Editorial Activities	
Computers, Materials & Continua	2025

Reviewed Papers for Journals Impact Factor: 2.0

Computers, Materials & Continua	2025
Reviewed Papers for Journals Impact Factor: 2.0	
Telecommunications systems Reviewed Papers for Journals Impact Factor: 1.7	2025
Physical communication Reviewed Papers for Journals Impact Factor: 2.0	2025
Scientific Reports Reviewed Papers for Journals Impact Factor: 3.8	2025
Scientific Reports Reviewed Papers for Journals Impact Factor: 3.8	2025
Wireless Personal Communications Reviewed Papers for Journals Impact Factor: 1.9	2025
Journal of Electronics and Electrical Engineering Reviewed Papers for Journals Impact Factor: N/A	2025
Wireless Personal Communications Reviewed Papers for Journals Impact Factor: 1.9	2025
Scientific Reports Reviewed Papers for Journals Impact Factor: 3.8	2025
Scientific Reports Reviewed Papers for Journals Impact Factor: 3.8	2025
Telecommunication Systems Reviewed Papers for Journals Impact Factor: 1.7	2025
Pervasive and Mobile Computing Reviewed Papers for Journals Impact Factor: 3	2025
Wireless Networks Reviewed Papers for Journals Impact Factor: 2.1	2025
Wireless Personal Communications Reviewed Papers for Journals Impact Factor: 1.9	2024
Wireless Personal Communications Reviewed Papers for Journals Impact Factor: 1.9	2024
Wireless Personal Communications Reviewed Papers for Journals Impact Factor: 1.9	2024
Peer J Computer Science Reviewed Papers for Journals Impact Factor: 3.8	2024
IEEE Access Reviewed Papers for Journals	2021

Impact Factor: 3.9