

Umar Ghafoor

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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

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 GCUF , Faisalabad	2008 - 2011

- Fair association and rate maximization in 6G UAV Aided HS only network and HetNet** 2025
Umar Ghafoor
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** 2025
Umar Ghafoor
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 Networks** 2024
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 assisted downlink hybrid multiple access HetNet** 2024
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 beyond fifth-generation** 2022
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 Siddiqui Muhammad Naeem
Journal of Network and Computer Applications, Volume 204, Article Number 103413
Impact Factor: 8.7 | **Quartile:** 1 | **Citations:** 77
DOI: <https://doi.org/10.1016/j.jnca.2022.103413>

Conference Proceedings

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

Editorial Activities

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

