

Mudassar Ali

Adjunct Faculty
Military College of Signals

Email: mudassar.ali@hotmail.com
Contact:



About

Dr. Mudassar Ali is working as Adjunct Faculty in the Military College of Signals. Dr. Mudassar Ali has a PhD in Wireless Communication. Dr. Mudassar Ali has published 20 research articles & conference papers having a citation count of 172, carried out 0 projects and filed 0 intellectual property.

Qualifications

PhD in Wireless Communication 2012 - 2017
NUST, Islamabad , Pakistan

Experience

Adjunct Faculty 2022- Present
Military College of Signals

Assistant Professor 2012 - 2023
UET Taxila , UET Taxila

Research Articles

Efficient Resource Allocation in Digital Twin-Assisted Mobile Edge Computing Network 2025
Ilsa Rameen Mudassar Ali Muhammad Imran Muhammad Naeem
Transactions on Emerging Telecommunications Technologies, Volume: 36, Issue: 04, Article Number: e70108, Pages:15
Impact Factor: 2.5 | Quartile: 3
DOI: <https://doi.org/10.1002/ett.70108>

Latency aware computation offloading and throughput maximization in DL/UL for IoT applications in fog networks 2025
Mudassar Ali Rabeea Basir Humayun Zubair Khan Naveed Ahmad Chughtai Saad Qaisar
The Journal of Supercomputing , Volume:81, Issue:5, Article Number 668
Impact Factor: 2.700 | Quartile: 2
DOI: <https://doi.org/10.1007/s11227-025-07108-x>

Efficient resource allocation for 5G/6G cognitive radio networks using probabilistic interference models 2024
Osama Zaheer Mudassar Ali Muhammad Imran Humayun Zubair Khan Muhammad Naeem
Physical Communication , Volume 64, Article Number: 102335
Impact Factor: 2.2 | Quartile: 3 | Citations: 5
DOI: [10.1016/j.phycom.2024.102335](https://doi.org/10.1016/j.phycom.2024.102335)

Buoyant airborne turbines in B5G/6G wireless networks: Opportunities, challenges, applications, and future directions 2023
Mohammad Abobaker Khalifa Mudassar Ali Muhammad Naeem
Computers and Electrical Engineering , Volume 111, Part B, Article Number 108962
Impact Factor: 4.3 | Quartile: 2 | Citations: 2
DOI: <https://doi.org/10.1016/j.compeleceng.2023.108962>

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>

Combinatorial Resource Allocation in UAV-Assisted 5G/B5G Heterogeneous Networks 2023
Dr. Mudassar Ali Rizwana Shahzadi Muhammad Naeem
IEEE Access , Volume:11, Page:65336-65346

Impact Factor: 3.9 Quartile: 2 Citations: 6 DOI: 10.1109/ACCESS.2023.3285827	
Joint user and throughput maximization in re-configurable intelligent surface assisted beyond 5G/6G networks <i>Alishba Azam Muhammad Imran Mudassar Ali Humayun Zubair Khan Abdul Wakeel Muhammad Naeem</i> <i>Transaction on Emerging Telecommunications Technologies</i> , Pages 1-20 Impact Factor: 3.310 Quartile: 2 Citations: 2 DOI: 10.1002/ett.4807	2023
Radio resource allocation for energy efficiency maximization in satellite–terrestrial integrated networks <i>Umair Fakhar Humayun Zubair Khan Zarrar Tariq Mudassar Ali Ahmad Naeem Akhtar Muhammad Naeem Abdul Wakeel</i> <i>Ad Hoc Networks</i> , Volume 138, Article Number 103001 Impact Factor: 4.816 Quartile: 2 Citations: 5 DOI: doi.org/10.1016/j.adhoc.2022.103001	2023
Fairness-based user association and resource blocks allocation in satellite–terrestrial integrated networks <i>Zarrar Tariq Humayun Zubair Khan Umair Fakhar Mudassar Ali Ahmad Naeem Akhtar Muhammad Naeem Abdul Wakeel</i> <i>Physical Communication</i> , Volume 55, Article Number 101934 Impact Factor: 2.379 Quartile: 3 Citations: 4 DOI: doi.org/10.1016/j.phycom.2022.101934	2022
Mode selection, caching and physical layer security for fog networks <i>Rabeea Basir Naveed Ahmed Chughtai Saad Bin Qaisar Mudassar Ali Anas Hashmi</i> <i>Bulletin of the Polish Academy of Sciences: Technical Sciences</i> , Volume 70, Issue 5, Article Number e142652 Impact Factor: 1.515 Quartile: 3 Citations: 3 DOI: 10.24425/bpasts.2022.142652	2022
Energy Efficient Resource Allocation for H-NOMA Assisted B5G HetNets <i>Umar Ghafoor Humayun Zubair Khan Mudassar Ali Adil Masood Siddiqui Muhammad Naeem Imran Rashid</i> <i>IEEE Access</i> , Volume 10, Pages 91699 - 91711 Impact Factor: 3.476 Quartile: 2 Citations: 13 DOI: 10.1109/ACCESS.2022.3201527	2022
Efficient resource allocation for hybrid nonorthogonal multiple access based heterogeneous networks beyond fifth-generation <i>Umar Ghafoor Mudassar Ali Humayun Zubair Khan Adil Masood Siddiqui Muhammad Naeem</i> <i>Transaction on Emerging Telecommunications Technologies</i> , Pages 1-23 Impact Factor: 3.310 Quartile: 2 Citations: 5 DOI: doi.org/10.1002/ett.4630	2022
NOMA and future 5G & B5G wireless networks: A paradigm <i>Umar Ghafoor Mudassar Ali Humayun Zubair Khan Adil Masood Saddiqui Muhammad Naeem</i> <i>Journal of Network and Computer Applications</i> , Volume 204, Article Number 103413 Impact Factor: 8.7 Quartile: 1 Citations: 77 DOI: https://doi.org/10.1016/j.jnca.2022.103413	2022

Conference Proceedings

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

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 IBCAST--2023 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

Book Chapters

UAV Placement and Resource Management in Public Safety Networks: An Overview

Rizwana Shahzadi Mudassar Ali Muhammad Naeem

In: Book on Intelligent Unmanned Air Vehicles Communications for Public Safety Networks, 1st Edition, Chapter 2, Pages 19-49

Citations: N/A

DOI: <https://doi.org/10.1007/978-981-19-1292-4>

2022