

Humayun Zubair Khan

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About

Dr. Humayun Zubair Khan is working as Defence Faculty in the Military College of Signals. Dr. Humayun Zubair Khan has a PhD in Telecommunication. Dr. Humayun Zubair Khan has published 29 research articles & conference papers having a citation count of 335, carried out 0 projects and filed 0 intellectual property.

Qualifications

PhD in Telecommunication Military College of Signals , Pakistan	2016 - 2020
MS in Telecommunication Military College of Signals , Pakistan	2011 - 2013
MBA in Finance Virtual University of Pakistan , Pakistan	2008 - 2010
BE in Telecommunication Military College of Signals , Pakistan	2002 - 2006

Experience

Defence Faculty Military College of Signals	2024- Present
Defence Faculty Military College of Signals	2017 - 2024
Assistant Professor MCS, NUST , Military College of Signals, Khadim Hussain Road, Rawalpindi, Pak	2017 - 2022
GSO-1 (Development) Special Communication Organization , HQ SCO, Rawalpindi	2015 - 2017
GSO-2 (Development) Special Communication Organization , HQ SCO, Qasim Market, Rawalpindi	2009 - 2011
Company commander Special Communication Organization , 428 Signal Company, Kotli, AJ&K	2006 - 2009

Professional Memberships

PEC	Since 2016
IEEE	Since 2018

Research Articles

Latency aware computation offloading and throughput maximization in DL/UL for IoT applications in fog networks <i>Mudassar Ali Rabeea Basir Humayun Zubair Khan Naveed Ahmad Chughtai Saad Qaisar</i> <i>The Journal of Supercomputing</i> , Volume:81, Issue:5, Article Number 668 Impact Factor: 2.700 Quartile: 2 DOI: https://doi.org/10.1007/s11227-025-07108-x	2025
Asymmetric multi-band reflective metasurface for linear and circular polarizations conversion in Ku, K, Ka, and U bands	2025

<i>Jamal Zafar Humayun Zubair Khan Abdul Jabbar Jalil ur Rehman Kazim Masood Ur Rehman Adil Masood Siddiqui Qammer H. Abbasi Muhammad Ali Imran</i> <i>Scientific Reports</i> , Volume:15, Issue:1, Article Number: 4977 Impact Factor: 3.800 Quartile: 1 DOI: 10.1038/s41598-024-81388-w	
Multi-band Reflective Metasurface for Efficient Linear and Circular Polarization Conversion <i>Adil Masood Siddiqui Jamal Zafar Humayun Zubair Khan Abdul Jabbar Jalil ur Rehman Kazim Masood Ur Rehman Qammer H. Abbasi Muhammad Ali Imran</i> <i>Optical and Quantum Electronics</i> , Volume 57, Article Number 149 Impact Factor: 3.300 Quartile: 2 DOI: 10.1007/s11082-025-08037-y	2025
Efficient resource allocation for 5G/6G cognitive radio networks using probabilistic interference models <i>Osama Zaheer Mudassar Ali Muhammad Imran Humayun Zubair Khan Muhammad Naeem</i> <i>Physical Communication</i> , Volume 64, Article Number: 102335 Impact Factor: 2.2 Quartile: 3 Citations: 5 DOI: 10.1016/j.phycom.2024.102335	2024
Cluster based resource management using H-NOMA in heterogeneous networks beyond 5G <i>Umar Ghafoor Humayun Zubair Khan Adil Masood Siddiqui Mudassar Ali Abdul Rauf Arif Wahla Muhammad Naeem</i> <i>Ad Hoc Networks</i> , Volume 149, Article Number 103252 Impact Factor: 4.8 Quartile: 2 Citations: 8 DOI: https://doi.org/10.1016/j.adhoc.2023.103252	2023
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
Communication capacity maximization in drone swarms <i>Farrukh Javed Humayun Zubair Khan Raheel Anjum</i> <i>Drone Systems and Applications</i> , Volume 11, Pages 1-12 Impact Factor: N/A Citations: 7 DOI: doi.org/10.1139/dsa-2023-0002	2023
Optimum power allocation for an energy harvesting wireless communication system considering energy storage losses <i>Abdul Basit Abdul Wakeel Ayaz Ahmad Mir Yasir Umair Alina Mirza Muhammad Imran Humayun Zubair Khan</i> <i>Ad Hoc Networks</i> , Volume 144, Article Number 103138 Impact Factor: 4.816 Quartile: 2 Citations: 2 DOI: https://doi.org/10.1016/j.adhoc.2023.103138	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
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>	2022

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

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

Joint user association and energy efficiency maximization in beyond 5G heterogeneous networks

2022

Faisal Shehzad Mudassar Ali Humayun Zubair Khan Muhammad Naeem Usman Masud Farhan Qamar

International Journal of Communication Systems, Pages 1-16, Article Number e5122

Impact Factor: 2.047 | **Quartile:** 3 | **Citations:** 4

DOI: 10.1002/dac.5122

Secure resource management in beyond 5G heterogeneous networks with decoupled access

2022

Humayun Zubair Khan Mudassar Ali Muhammad Naeem Imran Rashid Shahid Mumtaz Adnan Ahmad Khan Ahmad Naeem Akhtar

Ad Hoc Networks, Volume 125, Article Number 102737

Impact Factor: 4.111 | **Quartile:** 2 | **Citations:** 20

DOI: 10.1016/j.adhoc.2021.102737

Joint DL/UL Decouple User Association in Microwave and mmWave Enabled Beyond 5G

2021

Heterogeneous Networks

Humayun Zubair Khan Mudassar Ali Muhammad Naeem Imran Rashid Ahmad Naeem Akhtar Faisal Akram

IEEE Access, Volume 9, Pages 134703-134715

Impact Factor: 3.367 | **Quartile:** 2 | **Citations:** 12

DOI: 10.1109/ACCESS.2021.3116939

UAV assisted 5G and beyond wireless networks: A survey

2021

Rizwana Shahzadi Mudassar Ali Humayun Zubair Khan Muhammad Naeem

Journal of Network and Computer Applications, Volume 189, Article Number 103114

Impact Factor: 7.574 | **Quartile:** 1 | **Citations:** 110

DOI: doi.org/10.1016/j.jnca.2021.103114

Resource allocation for energy efficiency optimization in uplink–downlink decoupled 5G

2021

heterogeneous networks

Humayun Zubair Khan Mudassar Ali Imran Rashid Abdul Ghafoor Muhammad Naeem Adnan Ahmed Khan Adil Masood Saddiqui

International Journal of Communication System, Pages 1-23, Article Number e4925

Impact Factor: 1.882 | **Quartile:** 3 | **Citations:** 16

DOI: https://doi.org/10.1002/dac.4925

Joint admission control, cell association, power allocation and throughput maximization in decoupled

2020

5G heterogeneous networks

Humayun Zubair Khan Mudassar Ali Muhammad Naeem Imran Rashid Adil Masood Siddiqui Muhammad Imran Shahid Mumtaz

Telecommunication Systems, Pages 1-14

Impact Factor: 2.314 | **Quartile:** 3 | **Citations:** 16

DOI: https://doi.org/10.1007/s11235-020-00707-4

Resource allocation in 5G heterogeneous networks with downlink-uplink decoupled access

2019

Humayun Zubair Khan Imran Rashid Muhammad Imran Mudassar Ali Muhammad Naeem

Transactions on Emerging Telecommunications Technologies, Pages 1-18 (e3831)

Impact Factor: 1.594 | **Quartile:** 3 | **Citations:** 29

DOI: https://doi.org/10.1002/ett.3831

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</i> , res.country(157,) Citations: N/A DOI: 10.1109/GLOBECOM54140.2023.10436806	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)</i> , res.country(177,) 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)</i> , res.country(233,) 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)</i> , res.country(48,) Citations: N/A DOI: 10.1109/IWCMC51323.2021.9498930	2021
Joint Secure User Association, Power and Subcarrier Allocation in Decoupled 5G Heterogeneous Network <i>Humayun Zubair Khan Mudassar Ali Muhammad Naeem Imran Rashid Shahid Mumtaz</i> <i>ICC 2021 - IEEE International Conference on Communications</i> , res.country(38,) Citations: N/A DOI: 10.1109/ICC42927.2021.9500451	2021
Cell Association for Energy Efficient Resource Allocation in Decoupled 5G Heterogeneous Networks <i>Humayun Zubair Khan Mudassar Ali Imran Rashid Abdul Ghafoor Muhammad Naeem</i> <i>IEEE 91st Vehicular Technology Conference (VTC2020-Spring)</i> , res.country(20,) Citations: N/A DOI: 10.1109/VTC2020-Spring48590.2020.9129442	2020
Resource Allocation and Throughput Maximization in Decoupled 5G <i>Humayun Zubair Khan Mudassar Ali Muhammad Naeem Imran Rashid Adil Masood Siddiqui Shahid Mumtaz Muhammad Imran Humayun Zubair Khan Mudassar Ali Muhammad Naeem Imran Rashid Adil Masood Siddiqui Shahid Mumtaz Muhammad Imran Humayun Zubair Khan Mudassar Ali Muhammad Naeem Imran Rashid Adil Masood Siddiqui Shahid Mumtaz Muhammad Imran</i> <i>IEEE Wireless Communications and Networking Conference (WCNC)</i> , res.country(121,) Citations: N/A DOI: 10.1109/WCNC45663.2020.9120853	2020
Modified random pairing for throughput optimization in VMIMO Femtocell environment <i>Imtiaz Ahmed Jamil Sajid Bashir Humayun Zubair Khan Imran Rashid</i> <i>International Conference on Open Source Systems & Technologies (ICOSST)</i> , res.country(177,) Citations: N/A DOI: 10.1109/ICOSST.2015.7396405	2015
Enhancing throughput viz-a-viz fairness in uplink diversity based VMIMO femtocell environment <i>Humayun Zubair Khan Imran Rashid</i> <i>2013 International Conference on Open Source Systems and Technologies (ICOSST)</i> , res.country(177,) Citations: N/A DOI: 10.1109/ICOSST.2013.6720612	2013

Editorial Activities

Computer Networks Reviewed Papers for Journals Impact Factor: 5.493	2023
Computer Networks Reviewed Papers for Journals Impact Factor: 5.493	2023
IEEE Transactions on Vehicular Technology Reviewed Papers for Journals Impact Factor: 6.239	2022
Sensors Reviewed Papers for Journals Impact Factor: 3.847	2022
 Reviewed Papers for Journals Impact Factor: 3.169	2022
 Reviewed Papers for Journals Impact Factor: 1.194	2022
 Reviewed Papers for Journals Impact Factor: 6.492	2022
 Reviewed Papers for Journals Impact Factor: 4.474	2022
 Reviewed Papers for Journals Impact Factor: 2.047	2022
 Reviewed Papers for Journals Impact Factor: 10.215	2022
 Reviewed Papers for Journals Impact Factor: 2.047	2022
 Reviewed Papers for Journals Impact Factor: 4.474	2022
 Reviewed Papers for Journals Impact Factor: 10.215	2020