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 2016 - 2020
Military College of Signals , Pakistan

MS in Telecommunication 2011 - 2013
Military College of Signals , Pakistan

MBA in Finance 2008 - 2010
Virtual University of Pakistan , Pakistan

BE in Telecommunication 2002 - 2006
Military College of Signals , Pakistan

Experience

Defence Faculty 2024- Present
Military College of Signals

Defence Faculty 2017 - 2024
Military College of Signals

Assistant Professor 2017 - 2022
MCS, NUST , Military College of Signals, Khadim Hussain Road, Rawalpindi, Pak

GSO-1 (Development) 2015 - 2017
Special Communication Organization , HQ SCO, Rawalpindi

GSO-2 (Development) 2009 - 2011
Special Communication Organization , HQ SCO, Qasim Market, Rawalpindi

Company commander 2006 - 2009
Special Communication Organization , 428 Signal Company, Kotli, AJ&K

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 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

Asymmetric multi-band reflective metasurface for linear and circular polarizations conversion in Ku, K, Ka, and U bands 2025

Jamal Zafar Humayun Zubair Khan Abdul Jabbar Jalil ur Rehman Kazim Masood Ur Rehman Adil Masood Siddiqui Qammer H. Abbasi Muhammad Ali Imran
Scientific Reports , 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 2025
Adil Masood Siddiqui Jamal Zafar Humayun Zubair Khan Abdul Jabbar Jalil ur Rehman Kazim Masood Ur Rehman Qammer H. Abbasi Muhammad Ali Imran
Optical and Quantum Electronics, Volume 57, Article Number 149
Impact Factor: 3.300 | **Quartile:** 2
DOI: 10.1007/s11082-025-08037-y

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

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

Joint user and throughput maximization in re-configurable intelligent surface assisted beyond 5G/6G networks 2023
Alishba Azam Muhammad Imran Mudassar Ali Humayun Zubair Khan Abdul Wakeel Muhammad Naeem
Transaction on Emerging Telecommunications Technologies, Pages 1-20
Impact Factor: 3.310 | **Quartile:** 2 | **Citations:** 2
DOI: 10.1002/ett.4807

Communication capacity maximization in drone swarms 2023
Farrukh Javed Humayun Zubair Khan Raheel Anjum
Drone Systems and Applications , Volume 11, Pages 1-12
Impact Factor: N/A | **Citations:** 7
DOI: doi.org/10.1139/dsa-2023-0002

Optimum power allocation for an energy harvesting wireless communication system considering energy storage losses 2023
Abdul Basit Abdul Wakeel Ayaz Ahmad Mir Yasir Umair Alina Mirza Muhammad Imran Humayun Zubair Khan
Ad Hoc Networks , Volume 144, Article Number 103138
Impact Factor: 4.816 | **Quartile:** 2 | **Citations:** 2
DOI: https://doi.org/10.1016/j.adhoc.2023.103138

Radio resource allocation for energy efficiency maximization in satellite–terrestrial integrated networks 2023
Umair Fakhar Humayun Zubair Khan Zarrar Tariq Mudassar Ali Ahmad Naeem Akhtar Muhammad Naeem Abdul Wakeel
Ad Hoc Networks , Volume 138, Article Number 103001
Impact Factor: 4.816 | **Quartile:** 2 | **Citations:** 5
DOI: doi.org/10.1016/j.adhoc.2022.103001

Fairness-based user association and resource blocks allocation in satellite–terrestrial integrated networks 2022
Zarrar Tariq Humayun Zubair Khan Umair Fakhar Mudassar Ali Ahmad Naeem Akhtar Muhammad Naeem Abdul Wakeel
Physical Communication , Volume 55, Article Number 101934
Impact Factor: 2.379 | **Quartile:** 3 | **Citations:** 4
DOI: doi.org/10.1016/j.phycom.2022.101934

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 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 Heterogeneous Networks 2021

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 heterogeneous networks 2021

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 5G heterogeneous networks 2020

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

Conference Proceedings

Secrecy Rate Maximization based on User Clustering in Hybrid-NOMA Assisted HetNets for B5G/6G 2023

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

Sum Rate Maximization Based on Mobile User Clustering Assisted Downlink H-NOMA in 4-Tier B5G HetNet 2023

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

Energy Efficiency Optimization for Hybrid NOMA based Beyond 5G Heterogeneous Networks 2021

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

Throughput Maximization in Hybrid NOMA assisted Beyond 5G Heterogeneous Networks 2021

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

Joint Secure User Association, Power and Subcarrier Allocation in Decoupled 5G Heterogeneous Network 2021

Humayun Zubair Khan Mudassar Ali Muhammad Naeem Imran Rashid Shahid Mumtaz

ICC 2021 - IEEE International Conference on Communications, res.country(38,)

Citations: N/A

DOI: 10.1109/ICC42927.2021.9500451

Cell Association for Energy Efficient Resource Allocation in Decoupled 5G Heterogeneous Networks 2020

Humayun Zubair Khan Mudassar Ali Imran Rashid Abdul Ghafoor Muhammad Naeem

IEEE 91st Vehicular Technology Conference (VTC2020-Spring) , res.country(20,)

Citations: N/A

DOI: 10.1109/VTC2020-Spring48590.2020.9129442

Resource Allocation and Throughput Maximization in Decoupled 5G 2020

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

IEEE Wireless Communications and Networking Conference (WCNC), res.country(121,)

Citations: N/A

DOI: 10.1109/WCNC45663.2020.9120853

Modified random pairing for throughput optimization in VMIMO Femtocell environment 2015

Imtiaz Ahmed Jamil Sajid Bashir Humayun Zubair Khan Imran Rashid

International Conference on Open Source Systems & Technologies (ICOSST), res.country(177,)

Citations: N/A

DOI: 10.1109/ICOSST.2015.7396405

Enhancing throughput viz-a-viz fairness in uplink diversity based VMIMO femtocell environment 2013

Humayun Zubair Khan Imran Rashid

2013 International Conference on Open Source Systems and Technologies (ICOSST), res.country(177,)

Citations: N/A

DOI: 10.1109/ICOSST.2013.6720612

Editorial Activities

Computer Networks 2023
Reviewed Papers for Journals
Impact Factor: 5.493

Computer Networks 2023
Reviewed Papers for Journals
Impact Factor: 5.493

IEEE Transactions on Vehicular Technology 2022
Reviewed Papers for Journals
Impact Factor: 6.239

Sensors 2022
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

2020
Reviewed Papers for Journals
Impact Factor: 10.215