

# Mehmood Alam

Assistant Professor  
Military College of Signals

Email: mehmood.alam@mcs.edu.pk  
Contact:  
LinkedIn:



## About

Dr. Mehmood Alam is working as Assistant Professor in the Military College of Signals. Dr. Mehmood Alam has a PhD in Massive Machine Type Communication In 5g. Dr. Mehmood Alam has published 12 research articles & conference papers having a citation count of 20, carried out 0 projects and filed 0 intellectual property.

## Qualifications

<b>PhD in Massive Machine Type Communication In 5g</b> Aarhus University , Denmark	2016 - 2018
<b>MS in (Telecomm)</b> NUST, Islamabad , Pakistan	2012 - 2014
<b>BE in (Comm Systems)</b> NUST, Islamabad , Pakistan	2007 - 2011

## Experience

<b>Assistant Professor</b> Military College of Signals	2023- Present
<b>Assistant Professor</b> Military College of Signals	2019 - 2023
<b>Lecturer</b> BUITEMS , Aiport road Quetta	2014 - 2014
<b>A-EXEN</b> NRTC , Haripur	2011 - 2013

**A novel, mutual coupling independent, ultra-thin, and polarization-insensitive tetra band metamaterial absorber for microwave applications**

Saad Mahfooz Abdul Wakeel Muhammad Sibghat Ullah Mehmood Alam Adil Masood Siddiqui Adnan Iftikhar

*Waves in Random and Complex Media*, Pages 1-17

**Impact Factor:** N/A

**DOI:** <https://doi.org/10.1080/17455030.2024.2370021>

2024

**Design and allocation of low correlated signatures for sequence block-based compressive sensing multiuser detection in massive machine-type communication**

Malika Bakhtawar Mehmood Alam Abdul Wakeel Shibli Nisar Ikram Syed Jaehyuk Choi

*AEU - International Journal of Electronics and Communications*, Volume 161, March 2023, 154537

**Impact Factor:** 3.169 | **Quartile:** 2 | **Citations:** 1

**DOI:** <https://doi.org/10.1016/j.aeue.2023.154537>

2023

**A Survey: Nonorthogonal Multiple Access with Compressed Sensing Multiuser Detection for mMTC**

Mehmood Alam Qi Zhang

*Wireless Communications and Mobile Computing*, Volume 2021, Article ID 8840519, 16 pages

**Impact Factor:** 2.336 | **Quartile:** 3 | **Citations:** 4

**DOI:** [10.1155/2021/8840519](https://doi.org/10.1155/2021/8840519)

2021

**Non-Orthogonal Multiple Access With Sequence Block Compressed Sensing Multiuser Detection for 5G**

Mehmood Alam Qi Zhang

*IEEE Access* , Volume 6, Pages 63058-63070

**Impact Factor:** 4.098 | **Quartile:** 1 | **Citations:** 15

**DOI:** [DOI: 10.1109/ACCESS.2018.2877477](https://doi.org/10.1109/ACCESS.2018.2877477)

2018

**Optical Backplane Based on Ring-Resonators: Scalability and Performance Analysis for 10 Gb/s OOK-NRZ**

Giuseppe Rizzelli Domenico Siracusa Guido Maier Maurizio Magarini Mehmood Alam Andrea Melloni

*Photonics* , Volume 1(2), Pages 131-145

**Impact Factor:** N/A

**DOI:** [10.3390/photonics1020131](https://doi.org/10.3390/photonics1020131)

2014

- QoS-Aware NOMA with Sequence Block Compressed Sensing Multiuser Detection** 2019  
*Mehmood Alam Qi Zhang*  
*IEEE Wireless Communications and Networking Conference (WCNC)*, res.country(136,)  
**Citations:** N/A  
**DOI:** 10.1109/WCNC.2019.8885427
- Novel Codebook-based MC-CDMA with Compressive Sensing Multiuser Detection for Sporadic mMTC** 2018  
*Mehmood Alam Qi Zhang*  
*IEEE Globecom Workshops (GC Wkshps)*, res.country(2,)  
**Citations:** N/A  
**DOI:** 10.1109/GLOCOMW.2018.8644174
- Sequence Block based Compressed Sensing Multiuser Detection for 5G** 2018  
*Mehmood Alam Qi Zhang*  
*IEEE Global Communications Conference (GLOBECOM)*, res.country(2,)  
**Citations:** N/A  
**DOI:** 10.1109/GLOCOM.2018.8647750
- Enhanced compressed sensing based multiuser detection for machine type communication** 2018  
*Mehmood Alam Qi Zhang*  
*IEEE Wireless Communications and Networking Conference (WCNC)*, res.country(68,)  
**Citations:** N/A  
**DOI:** 10.1109/WCNC.2018.8377222
- Designing optimum mother constellation and codebooks for SCMA** 2017  
*Mehmood Alam Qi Zhang*  
*IEEE International Conference on Communications (ICC)*, res.country(75,)  
**Citations:** N/A  
**DOI:** 10.1109/ICC.2017.7996539
- Performance Study of SCMA Codebook Design** 2017  
*Mehmood Alam Qi Zhang*  
*IEEE Wireless Communications and Networking Conference (WCNC)*, res.country(233,)  
**Citations:** N/A  
**DOI:** 10.1109/WCNC.2017.7925767
- Performance analysis of ring-resonator based optical backplane for DPSK transmission at 10 Gb/s** 2014  
*Maurizio Magarini Guido Maier Mehmood Alam*  
*16th International Conference on Transparent Optical Networks (ICTON)*, res.country(12,)  
**Citations:** N/A  
**DOI:** 10.1109/ICTON.2014.6876604