Muhammad Sohail

Assistant Professor

Military College of Signals

Email: muhammad.sohail@mcs.nust.edu.pk
Contact:
LinkedIn: https://www.linkedin.com/in/muhammad-sohail-ab606b37/

About

Dr. Muhammad Sohail is working as Assistant Professor in the Military College of Signals. Dr. Muhammad Sohail has a PhD in Computer Application Technologies. Dr. Muhammad Sohail has published 23 research articles & conference papers having a citation count of 197, carried out 0 projects and filed 0 intellectual property.

Qualifications

PhD in Computer Application Technologies — 2016 - 2020
Jiangsu University of Science and Technology , China

MSc in Telecommunication Engineering — 2014 - 2019
University of Peshawar , Pakistan

B.Sc (Hon) in Telecommunication Engineering — 2005 - 2009
N.W.F.P University of Engineering & Technology Peshawar , Pakistan

Experience

Assistant Professor — 2022- Present
Military College of Signals

Assistant Professor — 2021 - 2022
Military College of Signals

Assistant Professor — 2020 - 2021
Faculty of Engineering Science and Technology , Faculty of Engineering Science and Technology, Karachi

PhD Research Scholar — 2016 - 2019
Jiangsu University , Jiangsu University, China

Exective NOC Engr — 2011 - 2013
WorldCall Telecom Ltd , WorldCall Telecom Ltd, Lahore, Pakistan

Research Articles

MORPSO_ECD+ELM: A Unified Framework for Gene Selection and Cancer Classification — 2025
Sumet Mehta Fei Han Qinghua Ling Muhammad Sohail Arfan Nagra
IEEE Journal of Biomedical and Health Informatics, Volume: 29, Issue: 6, Pages 4571-4584
Impact Factor: 6.700 | **Quartile:** 1 | **Citations:** 1
DOI: 10.1109/JBHI.2025.3526825

Gene selection based on adaptive neighborhood-preserving multi-objective particle swarm optimization — 2025
Sumet Mehta Fei Han Muhammad Sohail Bhekisipho Twala Asad Ullah Arfat Ahmad Khan Qinghua Ling Fasee Ullah
PeerJ Computer Science , Volume:11, Article Number e2872
Impact Factor: 2.500 | **Quartile:** 2
DOI: https://doi.org/10.7717/peerj-cs.2872

High-precision Identification of Power Quality Disturbances based on Discrete Orthogonal S-Transforms and Compressed Neural Network Methods — 2023
Muhammad Abubakar Arfan Ali Nagra Muhammad Faheem Muhammad Mudassar Muhammad Sohail
IEEE Access , Volume 11, Pages 85571-85588
Impact Factor: 3.9 | **Quartile:** 2 | **Citations:** 19
DOI: 10.1109/ACCESS.2023.3304375

SDSM: Secure Data Sharing for Multilevel Partnerships in IoT Based Supply Chain 2022

Chuntang Yu Yongzhao Zhan Muhammad Sohail

Symmetry , Volume 14(12), Article Number 2656

Impact Factor: 2.7 | **Quartile:** 2 | **Citations:** 9

DOI: https://doi.org/10.3390/sym14122656

Effective Consensus-Based Distributed Auction Scheme for Secure Data Sharing in Internet of Things 2022

Xuedan Jia Xiangmei Song Muhammad Sohail

Symmetry , Volume 14(8), Article Number 1664

Impact Factor: 2.7 | **Quartile:** 2 | **Citations:** 6

DOI: https://doi.org/10.3390/sym14081664

New Trends and Advancement in Next Generation Mobile Wireless Communication (6G): A Survey 2021

Muhammad Sohail Sher Ali Syed Bilal Hussain Shah Deepika Koundal Muhammad Abul Hassan Asrin Abdollahi Inam Ullah Khan

Wireless Communications and Mobile Computing, Volume 2021, Article ID 9614520, 14 pages

Impact Factor: 2.336 | **Quartile:** 3 | **Citations:** 30

DOI: https://doi.org/10.1155/2021/9614520

Deep Learning (DL) Based Joint Resource Allocation and RRH Association in 5G-Multi-Tier Networks 2021

Sher Ali Amir Haider Muhibur Rhaman Muhammad Sohail Yousaf Bin Zikria

IEEE Access , Volume 9, Pages 118357-118366

Impact Factor: 3.367 | **Quartile:** 2 | **Citations:** 21

DOI: 10.1109/ACCESS.2021.3107430

Elastic caching solutions for content dissemination services of ip-based internet technologies prospective 2021

Yahui Meng · Muhammad Ali Naeem Muhammad Sohail Ali Kashif Bashir Rashid Ali Yousaf Bin Zikria

Multimedia Tools and Applications , Volume 80, Pages16997–17022

Impact Factor: 2.577 | **Quartile:** 2 | **Citations:** 9

DOI: https://doi.org/10.1007/s11042-020-09626-7

Generalized Multi-manifold Graph Ensemble Embedding for Multi-View Dimensionality Reduction 2020

Sumet Mehta Muhammad Sohail Jasjit Singh Samagh Silki Baghla

Lahore Garrison University Research Journal of Computer Science and Information Technology, Volume 4(4), Pages 55-72

Impact Factor: N/A

DOI: https://doi.org/10.54692/lgurjcsit.2020.0404109

greenMAC Protocol: A Q-Learning-Based Mechanism to Enhance Channel Reliability for WLAN Energy Savings 2020

Rashid Ali Muhammad Sohail Alaa Omran Almagrabi Arslan Musaddiq Byung-Seo Kim

Electronics , Volume 9(10), Article Number 1720

Impact Factor: 2.397 | **Quartile:** 3 | **Citations:** 6

DOI: https://doi.org/10.3390/electronics9101720

TrustWalker: An Efficient Trust Assessment in Vehicular Internet of Things (VIoT) with Security Consideration 2020

Rashid Ali Muhammad Kashif Sher Ali Sumet Mehta Yousaf Bin Zikria Heejung Yu Muhammad Sohail

Sensors , Volume 20(14), Article Number 3945

Impact Factor: 3.576 | **Quartile:** 1 | **Citations:** 15

DOI: https://doi.org/10.3390/s20143945

Efficient data handover and intelligent information assessment in software-defined vehicular social networks 2019

Muhammad Sohail Liangmin Wang Rashid Ali Sajjad Rahim Jiaying Yao

IET Intelligent Transport Systems , Volume 13, Issue 12, Pages 1814-1821

Impact Factor: 2.480 | **Quartile:** 2 | **Citations:** 10

DOI: 10.1049/iet-its.2019.0323

Multi-hop interpersonal trust assessment in vehicular ad-hoc networks using three-valued subjective logic 2019

Muhammad Sohail Liangmin Wang Shunrong Jiang Samar Zaineldeen Rana Umair Ashraf

IET Information Security , Volume 13, Issue 3, Pages 223-230

Impact Factor: 1.068 | **Quartile:** 3 | **Citations:** 19

DOI: 10.1049/iet-ifs.2018.5336

A Robust Security Architecture for SDN-Based 5G Networks

Jiaying Yao Zhigeng Han Muhammad Sohail Liangmin Wang

3VSR: Three Valued Secure Routing for Vehicular Ad Hoc Networks using Sensing Logic in Adversarial Environment

Muhammad Sohail Liangmin Wang

Conference Proceedings

Framework for improving Software Requirements via Automated Behavior-Driven Development: A Priority-Based Approach ∗ 2025

Zainab Yousaf Muhammad Sohail Javed Iqbal Asad Ullah Sumet Mehta

2025 International Conference on Communication Technologies, ComTech 2025, res.country(177,)

Citations: N/A
DOI: 10.1109/ComTech65062.2025.11034632

Enhancing Risk Mitigation in Global Software Development: Leveraging Agile Practices and Seven Risk Management Principles 2025

Maria Javed Muhammad Haroon Alam Muhammad Sohail Fahim Arif

2025 International Conference on Communication Technologies, ComTech 2025, res.country(177,)

Citations: N/A
DOI: 10.1109/ComTech65062.2025.11034462

Comparative Analysis of Machine Learning-Driven and Traditional Method for User Requirement Analysis in Software Development 2024

Jamshaid Basit Tahir Ehsan Danish Hanif Farhan Nawaz Cheema Muhammad Sohail Farhan Nawaz Cheema

2024 International Conference on Frontiers of Information Technology, FIT 2024, res.country(177,)

Citations: N/A
DOI: 10.1109/FIT63703.2024.10838397

Smart Cities Paradigm with AI-Enabled Effective Requirements Engineering 2023

Asima Bashir Niha Latif Arisha Masood Kha Muhammad Sohail

IEEE International Conference on Emerging Technologies (ICET 2023), res.country(177,)

Citations: N/A
DOI: 10.1109/ICET59753.2023.10375008

tress Avoidance and Exercise recommendation Through CVS Posture Observation 2022

Arfan Ali Nagra Muhammad Sohail Kiran Amjad Muhammad Asif Sher Ali

ICIT 2022 International Conference on IT and Industrial Technologies, res.country(275,)

Citations: N/A
DOI: Nil

Trust Mechanism Based AODV Routing Protocol for Forward Node Authentication in Mobile Ad Hoc Network 2017

Muhammad Sohail Liangmin Wang Bushra Yamin

International Conference on Mobile Ad-Hoc and Sensor Networks, res.country(48,)

Citations: N/A
DOI: https://doi.org/10.1007/978-981-10-8890-2_25

Trust Model Based Uncertainty Analysis Between Multi-path Routes in MANET Using Subjective Logic 2017

Muhammad Sohail Liangmin Wang Bushra Yamin

China Conference on Wireless Sensor Networks, res.country(48,)

Citations: N/A
DOI: https://doi.org/10.1007/978-981-10-8123-1_28

Performance Analysis of WiMax LDPC Based Cooperative Communication Using TWRN 2016

Muhammad Sohail Imran Khan Sadaqat Jan Ibrar Ali Shah

1st National Conference on "Emerging Trends and Innovations in Computing & Technology, res.country(177,)

Citations: N/A
DOI: https://www.researchgate.net/publication/327971420

Editorial Activities

Algorithms 2025

Reviewed Papers for Journals
Impact Factor: 2.1

IEEE Access 2025

Reviewed Papers for Journals
Impact Factor: 3.4

Machine Learning and Knowledge Extraction 2025

Reviewed Papers for Journals
Impact Factor: 0.4

Peer-to-Peer Networking and Applications   2025
Reviewed Papers for Journals
Impact Factor: 3.3

Discover Applied Sciences   2025
Reviewed Papers for Journals
Impact Factor: 2.6

The Journal of Supercomputing   2024
Reviewed Papers for Journals
Impact Factor: 3.3

IEEE Access   2024
Reviewed Papers for Journals
Impact Factor: 3.9

Cluster Computing   2024
Reviewed Papers for Journals
Impact Factor: 3.6

IEEE Access   2024
Reviewed Papers for Journals
Impact Factor: 3.9

Telecom   2024
Reviewed Papers for Journals
Impact Factor: 2.1

IEEE Access   2024
Reviewed Papers for Journals
Impact Factor: 3.9

Sensors   2024
Reviewed Papers for Journals
Impact Factor: 3.4

International Journal of Intelligent Systems   2024
Reviewed Papers for Journals
Impact Factor: 5

IEEE Access   2024
Reviewed Papers for Journals
Impact Factor: 3.9

IEEE Access   2024
Reviewed Papers for Journals
Impact Factor: 3.9

IEEE Access   2023
Reviewed Papers for Journals
Impact Factor: 3.9

Transactions on Consumer Electronics   2023
Reviewed Papers for Journals
Impact Factor: 4.3

Applied Sciences   2023
Reviewed Papers for Journals
Impact Factor: 2.8

IEEE Access   2023
Reviewed Papers for Journals
Impact Factor: 3.9

Journal of Cyber Security   2023
Reviewed Papers for Journals
Impact Factor: 0

Processes
2023
Reviewed Papers for Journals
Impact Factor: 3.5

Sensors
2023
Reviewed Papers for Journals
Impact Factor: 3.847

CMC-Computers Materials & Continua
2023
Reviewed Papers for Journals
Impact Factor: 3.860

Sensors
2022
Reviewed Papers for Journals
Impact Factor: 3.860

Sensors
2022
Reviewed Papers for Journals
Impact Factor: 3.847

Applied Sciences-Basel
2022
Reviewed Papers for Journals
Impact Factor: 2.838

Sensors
2022
Reviewed Papers for Journals
Impact Factor: 3.847

2022
Reviewed Papers for Journals
Impact Factor: 3.860

2022
Reviewed Papers for Journals
Impact Factor: 10.215

2021
Reviewed Papers for Journals
Impact Factor: 10.215

2021
Reviewed Papers for Journals
Impact Factor: 3.061

2020
Reviewed Papers for Journals
Impact Factor: 5.57

2020
Reviewed Papers for Journals
Impact Factor: 10.696

2019
Reviewed Papers for Journals
Impact Factor: 5.57

2019
Reviewed Papers for Journals
Impact Factor: 2.45