Mujahid Mohsin

Defence Faculty

College of Aeronautical Engineering

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Contact:
LinkedIn:

About

Dr. Mujahid Mohsin is working as Defence Faculty in the College of Aeronautical Engineering. Dr. Mujahid Mohsin has a PhD in Embedded Systems Security. Dr. Mujahid Mohsin has published 13 research articles & conference papers having a citation count of 309, carried out 8 projects and filed 0 intellectual property.

Qualifications

PhD in Embedded Systems Security   2013 - 2017
 NUST, Islamabad , Pakistan

MS in Information Security   2008 - 2010
 NUST, Islamabad , Pakistan

BE in Avionics Engineering   1997 - 2001
 NUST, Islamabad , Pakistan

Experience

Defence Faculty   2023- Present
 College of Aeronautical Engineering

Defence Faculty   2021 - 2021
 College of Aeronautical Engineering

Defence Faculty   2017 - 2021
 College of Aeronautical Engineering

Director Technology   2021 - 2023
 National Aerospace S&T Park , Old Airport Road, Rawalpindi

Associate Professor   2017 - 2021
 CAE, NUST , Risalpur, KPK

Awards

NUST High Achiever   2015
 High achiever certificate was awarded by Rector NUST for getting selected for CERN after securing 3rd position at an international course at NCP, Islamabad

PhD Scholarship   2013
 Awarded the PhD scholarship by HEC (2013-2017), under 5000 indigenous scholarship programme Phase-II

Professional Memberships

PEC   Since 2018

Research Projects

National Projects

FOD detection using intelligent computer 2020
    Funding Agency: IGNITE
    Amount: PKR 53,000.00
    Status: Completed

Implementation of optimized algorithm for adaptive GPS obfuscation 2019
    Funding Agency: IGNITE
    Amount: PKR 80,000.00
    Status: Completed

Development of an IoT Security Swiss Army Knife 2019
    Funding Agency: IGNITE
    Amount: PKR 61,825.00
    Status: Completed

IoTVault - An Automated Ranker and Recommender System Solar Security of IoT Configurations 2019
    Funding Agency: HEC
    Amount: PKR 500,000.00
    Status: Completed

Development of an Internet of Things (IoT) enabled Real-Time Water Quality Monitoring and Distribution Management System 2018
    Funding Agency: IGNITE
    Amount: PKR 70,000.00
    Status: Completed

Design and prototype Development of Haptic Claw for interacting with virtual reality 2019
    Funding Agency: HEC
    Amount: PKR 470,000.00
    Status: Approved_inprocess

IoTVault - An automated ranker and recommender system soar security of IoT configuration 2019
    Funding Agency: HEC
    Amount: PKR 481,000.00
    Status: Completed

Probability Distribution Modeling of Roadway Sound-Level Data and Development of a Noise Descriptor 2019
    Funding Agency: HEC
    Amount: PKR 497,200.00
    Status: Completed

International Projects

Research Articles

On GPS spoofing of aerial platforms: a review of threats, challenges, methodologies, and future research directions

Shah Zahid Mujahid Mohsin Mian Muhammad Waseem Iqbal

PeerJ Computer Science , Volume 7, Article Number e507

Impact Factor: 2.411 | **Quartile:** 2 | **Citations:** 62
DOI: https://doi.org/10.7717/peerj-cs.507

2021

Survey and technological analysis of laser and its defense applications

Syed Affan Ahmed Syed Muhammad Zubair Ali Mujahid Mohsin

Defence Technology , Volume 17, Issue 2, Pages 583-592

Impact Factor: 4.035 | **Quartile:** 2 | **Citations:** 111
DOI: https://doi.org/10.1016/j.dt.2020.02.012

2021

Formal approach to thwart against drone discovery attacks: A taxonomy of novel 3D obfuscation mechanisms.

Faizana Naeem Mujahid Mohsin Liaqat Ali Khan Usman Rauf

Future Generation Computer Systems , Volume 115, Pages 374-386

Impact Factor: 7.307 | **Quartile:** 1 | **Citations:** 7
DOI: https://doi.org/10.1016/j.future.2020.09.001

2021

xUAVs: Towards Efficient Approximate Computing for UAVs - Low Power Approximate Adders with Single LUT Delay for FPGA-Based Aerial Imaging Optimization

Tuaha Nomani Zahid Pervaiz Tuaha Nomani Zahid Pervaiz Mujahid Mohsin Muhammad Shafique

IEEE Access , Volume 8, Pages 102982-102996

Impact Factor: 3.367 | **Quartile:** 2 | **Citations:** 19
DOI: 10.1109/ACCESS.2020.2998957

2020

A Survey of Six Port Network Techniques for Direction Finding Applications

Bilal Habib Muhammad Shoaib Arif Mujahid Mohsin

Microwave Journal , Volume: 63, Issue: 01, Pages: 16,

Impact Factor: 0.306 | **Quartile:** 4
DOI: mw/10.19.2020

2020

MARC: A Novel Framework for Detecting MITM Attacks in eHealthcare BLE Systems

Imran Rashid Haider Abbas Mujahid Mohsin Yawar Abbas Bangash Muhammad Yaseen Waseem Iqbal Kashif Saleem

Journal of Medical Systems , Volume 43, Issue 11, Article Number 324

Impact Factor: 3.058 | **Quartile:** 1 | **Citations:** 21
DOI: 10.1007/s10916-019-1440-0

2019

IoTChecker : A Data-driven Framework for Security Analytics of Internet of Things Configurations

Zahid Anwar Farhat Zaman Ehab Al-Shaer Mujahid Mohsin

Computers and Security , Volume 70, Pages 199-223

Impact Factor: 2.650 | **Quartile:** 2 | **Citations:** 39
DOI: 10.1016/j.cose.2017.05.012

2017

IoTRiskAnalyzer: A Probabilistic Model Checking Based Framework for Formal Risk Analytics of the Internet of Things

Mujahid Mohsin Muhammad Usama Sardar Osman Hasan Zahid Anwar

IEEE Access , Volume 5, Pages 5494-5505

Impact Factor: 3.557 | **Quartile:** 1 | **Citations:** 50
DOI: 10.1109/ACCESS.2017.2696031

2017

Towards a Generic Model for Risk Analysis of the Internet of Things (IoT)

Mujahid Mohsin Zahid Anwar Farhat Zaman

NUST Journal of Engineering Sciences , Vol. 9, No.2, Pages 42-49

Impact Factor: 0
DOI: http://dx.doi.org/10.24949%2Fnjes.v9i2.280.g88

2016

Conference Proceedings

Cyber Regulatory Networks: Towards A Bio-inspired Auto-resilient Framework for Cyber-Defense   2019

Usman Rauf Mujahid Mohsin Wojciech Mazurczyk

11th EAI International Conference on Bio-inspired Information and Communications Technologies (BICT 2019) res.country(233,)

Citations: N/A

DOI: https://www.researchgate.net/publication/331047264_Cyber_Regulatory_Networks_Towards_A_Bio-inspired_Auto-resilient_Framework_for_Cyber-Defense

Survey on Location Privacy Techniques Deployed in Vehicular Networks   2019

Tuaha Nomani Hassan Talat Mujahid Mohsin Saira Sattar

16th International Bhuban Conference on Applied Sciences and Technology (IBCAST), res.country(177,)

Citations: N/A

DOI: 10.1109/IBCAST.2019.8667248

Leveraging the Internet of Things for Smart Waters: Motivation, Enabling Technologies and Deployment Strategies for Pakistan   2018

Sabeeh Safdar Mujahid Mohsin Liaqat Ali Khan Waseem Iqbal

2nd IEEE International Conference on Smart City Innovations (IEEE SCI 2018), res.country(48,)

Citations: N/A

DOI: 10.1109/SmartWorld.2018.00354

Where to Kill the Cyber Kill-Chain: An Ontology-Driven Framework for IoT Security Analytics   2016

Mujahid Mohsin Zahid Anwar Mujahid Mohsin Zahid Anwar

International Conference on Frontiers of Information Technology (FIT) held from 19-21 Dec 2016 in Pakistan res.country(177,)

Citations: N/A

DOI: 10.1109/FIT.2016.013