Muhammad Ashraf

Assistant Professor

School of Electrical Engineering and Computer Science

Email: muhammad.ashraf@seecs.edu.pk
Contact:
LinkedIn:

About

Dr. Muhammad Ashraf is working as Assistant Professor in the School of Electrical Engineering and Computer Science. Dr. Muhammad Ashraf has a PhD in Cryptography. Dr. Muhammad Ashraf has published 15 research articles & conference papers having a citation count of 133, carried out 2 projects and filed 0 intellectual property.

Qualifications

PhD in Cryptography   2009 - 2013
  Middle East Technical University , Turkey

MS in Information Security   2005 - 2009
  Military College of Signals , Pakistan

BE in Avionics   1993 - 1996
  College of Aeronautical Engineering (CAE) , Pakistan

Experience

Assistant Professor   2024- Present
   School of Electrical Engineering and Computer Science

Defence Faculty   2019 - 2019
   College of Aeronautical Engineering

Defence Faculty   2017 - 2019
   College of Aeronautical Engineering

DG Institute of Avionics and Aeronautics   2022 - 2024
   Air University, Islamabad , E-9 Air University Islamabad

HoD   2022 - 2024
   Department of Avionics Engineering , Air University

Dean Undergraduate   2021 - 2022
   National University of Technology, Islamabad , I-12, IJP road Islamabad

Director   2019 - 2021
   Center of Cryptology and Security , Air Headquarters, Islamabad

Def Fac   2016 - 2019
   NUST, CAE , PAF Academy Risalpur

TVF   2013 - 2016
   Air University Islamabad , Air University

Dy Director   2013 - 2016
   Center of Cryptology and Security , Air Headquarters Islamabad

Student   2009 - 2013
   Middle East Technical University , METU, Ankara Turkey

Dy Director   2008 - 2009
   Dte of Cyber Warfare , Air Headquarters, Islamabad

Dy Director   2007 - 2008
   Dte of Comm & Dte of Networks , Air Headquarters, Islamabad

Research Officer   2004 - 2005
   Kamra Avionics Rebuild Factory , KARF, PAC Kamra

Research Officer   1998 - 2004
   No 606 R&D Wing , PAF Camp Badaber

Avionics Instructor   1996 - 1998
   NUST, CAE , PAF Academy Risalpur

Research Projects

National Projects

VoIP - Based Communication System
   Funding Agency: NUST
   Amount: PKR 750,000.00
   Status: Approved_inprocess

Molecular and Biochemical characterization of A-genome Synthetic hexaploids for their Glu-1 allelic   2011
variation
   Funding Agency: HEC
   Amount: PKR 500,000.00
   Status: Completed

International Projects

Research Articles

BERT-Based Deceptive Review Detection in Social Media: Introducing Deceptive BERT   2024
   Muhammad Ashraf Syeda Basmah Hyder Noshina Tariq Syed Atif Moqurrab Joon Yoo Gautam Srivastava

IEEE Transactions on Computational Social Systems, Volume 11, Issue 6, Pages 7234-7243

Adaptive MAC Scheme for Interference Management in Ad Hoc IoT Networks

2024

Muhammad Ashraf Ehsan Ali Adnan Fazil Jihyoung Ryu Muhammad Zakwan

Applied Sciences , Volume 14(19), Article Number 8628

FL-DSFA: Securing RPL-Based IoT Networks against Selective Forwarding Attacks Using Federated Learning

2024

Muhammad Ashraf Rabia Khan Noshina Tariq Farrukh Aslam Khan Saira Shafi Aftab Ali

Sensors , Volume 24(17), Article Number 5834

Exploration of PQC-Based Digital Signature Schemes in TLS Certificates

2024

Muhammad Umer Akram Muhammad Ashraf Tayyab Rehman Muhammad Abdur Rehman Javaid Muhammad Ali Khalid

Asian Bulletin of Big Data Management, Volume 4(3), Pages 22-41

BBAD: Blockchain-Backed Assault Detection for Cyber Physical Systems

2024

Muhammad Ashraf Masooma Anwar Noshina Tariq Syed Atif Moqurrab Bayan Alabdullah Hatoon S. Alsagri Abrar Almjally

IEEE Access , Volume 12, Pages 101878-101894

Impact of Post Quantum Digital Signatures On Block Chain: Comparative Analysis

2024

Muhammad Ashraf

The Asian Bulletin of Big Data Management, Volume 4, Issue 1, Pages 121-138

Securing Smart Healthcare Cyber-Physical Systems against Blackhole and Greyhole Attacks Using a Blockchain-Enabled Gini Index Framework

2023

Muhammad Ashraf Mannan Javed Noshina Tariq Farrukh Aslam Khan Muhammad Asim Muhammad Imran

Sensors , Volume 23(23), Article Number 9372

A Fog-based Privacy-Preserving Federated Learning System for Smart Healthcare Applications

2023

Muhammad Ashraf Maryum Butt Noshina Tariq Hatoon S. Alsagri Syed Atif Moqurrab Haya Abdullah A. Alhakbani Yousef A. Alduraywish

Electronics , Volume 12(19), Article Number 4074

Bft-iomt: A Blockchain-based trust mechanism to mitigate sybil attack using fuzzy logic in the internet of medical things

2023

Shayan E Ali Noshina Tariq Farrukh Aslam Khan Muhammad Ashraf Wadood Abdul Kashif Saleem

Sensors , Volume 23(9), Article Number 4265

GITM: A GINI Index-Based Trust Mechanism to Mitigate and Isolate Sybil Attack in RPL-Enabled Smart Grid Advanced Metering Infrastructures

2023

Muhammad Hassan Noshina Tariq Amjad Alsirhani Abdullah Alomari Farrukh Aslam Khan Mohammed Mujib Alshahrani Muhammad Ashraf Mamoona Humayun

IEEE Access , Volume:11, Pages:62697-62720

Design and Development of Secure Mobile Communication over GSM Network Using Open Source Operating System (OS)

2019

Muhammad Ashraf Arslan Asim

VFAST Transaction on Software Engineering, Volume 7, Number 1, Pages 1-5

Impact Factor: N/A
DOI: https://doi.org/10.21015/vtse.v14i1.535

An overview of trace based public key cryptography over finite fields
2014

Ersan Akyildiz Muhammad Ashraf

Journal of Computational and Applied Mathematics, Volume:259, Issue: PART B, Pages 599-621

Impact Factor: 1.266 | **Quartile:** 1 | **Citations:** 5
DOI: 10.1016/j.cam.2013.10.022

Message transmission for GH-public key cryptosystem
2014

Muhammad Ashraf Barış Bülent Kırlar

Journal of Computational and Applied Mathematics, Volume 259, Part B, Pages 578-585

Impact Factor: 1.266 | **Quartile:** 1 | **Citations:** 7
DOI: https://doi.org/10.1016/j.cam.2013.10.005

On the alternate models of elliptic curves
2012

Muhammad Ashraf Baris Kirlar

International Journal of Information Security Science, Volume 1, No.2, Pages 49-66

Impact Factor: N/A

Conference Proceedings

Parallel implementation of 2D-DWT by purging read after write dependency for high speed applications
2007

Liaqat Ali Khan Ali Hassan Muhammad Ashraf Muhammad Shamim Baig

Proceedings - 3rd International Conference on Emerging Technologies, ICET 2007, res.country(177,)

Citations: N/A
DOI: 10.1109/ICET.2007.4516355