Madiha Khalid

Assistant Professor

School of Electrical Engineering and Computer Science

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About

Dr. Madiha Khalid is working as Assistant Professor in the School of Electrical Engineering and Computer Science. Dr. Madiha Khalid has a PhD in Information Security. Dr. Madiha Khalid has published 15 research articles & conference papers having a citation count of 27, carried out 2 projects and filed 0 intellectual property.

Qualifications

PhD in Information Security   2016 - 2023
  Bahria University , Pakistan

MS in Control Systems   2011 - 2012
  UET Taxila , Pakistan

BS in Electronics   2006 - 2010
  UET Lahore , Pakistan

Experience

Assistant Professor   2023- Present
  School of Electrical Engineering and Computer Science

Assistant Professor   2019 - 2023
  Bahria University , BU-SEAS, H11

Lecturer   2015 - 2019
  Bahria University , BU-E* Campus

Research Projects

National Projects

AI-based Type Detection of Design for Crypto S-Boxes   2024
  Funding Agency: NESCOM
  Amount: PKR 200,000.00
  Status: Approved_inprocess

Quantum Implementation of Lightweight Ciphers   2024
  Funding Agency: NESCOM
  Amount: PKR 300,000.00
  Status: Approved_inprocess

International Projects

Research Articles

Enhancing Ransomware Detection with Machine Learning Techniques and Effective API Integration   2025

Asad Iqbal Mehdi Hussain Qaiser Riaz Madiha Khalid RAFIA MUMTAZ Ki-Hyun Jung

Computers, Materials & Continua , Pages 1-22

Impact Factor: 1.700 | **Quartile:** 3

Innovative hip-knee health evaluation: Leveraging pose estimation for single-leg stance postural   2024
stability assessment

Safee Rehman Nadia Sultan Joddat Fatima Muhammad Najam-ul-Islam Dr Madiha Khalid

Measurement and Control (United Kingdom) , Pages 1-13

Impact Factor: 1.300 | **Quartile:** 3

Ultralightweight resilient mutual authentication protocol for IoT based edge networks   2021

Madiha Khalid Umar Mujahid M. Najam-ul-Islam Hongsik Choi Imtiaz Alam Shahzad Sarwar

Journal of Ambient Intelligence and Humanized Computing , Pages 1-12

Impact Factor: 3.662 | **Quartile:** 2 | **Citations:** 5

Ultralightweight RFID Authentication Protocols for Low-Cost Passive RFID Tags   2019

Madiha Khalid Umar Mujahid Najam-ul-Islam Muhammad

Security and Communication Networks , Volume 2019, Article ID 3295616, 25 pages

Impact Factor: 1.288 | **Quartile:** 4 | **Citations:** 15

Cryptanalysis of ultralightweight mutual authentication protocol for radio frequency identification   2018
enabled Internet of Things networks

Madiha Khalid Umar Mujahid Muhammad Najam-ul-Islam

International Journal of Distributed Sensor Networks , Volume 14, Issue 8, Pages 1-9

Impact Factor: 1.614 | **Quartile:** 3

Efficient Hardware Implementation of KMAP+: An Ultralightweight Mutual Authentication Protocol   2018

Umar Mujahid Muhammad Najam-ul-Islam Madiha Khalid

Journal of Circuits Systems and Computers , Volume 27, Issue 2, Article Number 1850033

Impact Factor: 0.939 | **Quartile:** 4 | **Citations:** 7

Conference Proceedings

Probabilistic Full Disclosure Attack On ISO-29167:Speck
2024

Armeen Syed Binh Tran Dr Madiha Khalid Umar Mujahid Muhammad Najam-ul-Islam

ICT for Intelligent Systems (2024), res.country(233,)

Citations: N/A

DOI: https://doi.org/10.1007/978-981-97-5799-2_1

Formal Security Analysis of Generalized Ultralightweight Mutual Authentication Protocol
2023

Muhammad Najam-ul-Islam Madiha Khalid Umar Mujahid

Future Technologies Conference (FTC) 2023, res.country(233,)

Citations: N/A

DOI: 10.1007/978-3-031-47451-4_40

FPGA Based Emulation Of B92 QKD Protocol
2023

Umar Mujahid Madiha Khalid Muhammad Najam-ul-Islam

2023 57th Annual Conference on Information Sciences and Systems, CISS 2023, res.country(233,)

Citations: N/A

DOI: 10.1109/CISS56502.2023.10089628

Cryptanalysis of Resource Constraint IoT Network Authentication Protocol RAPP
2021

Osman Khan Madiha Khalid Umar Mujahid Muhammad Najam-ul-Islam

2021 International Bhurban Conference on Applied Sciences and Technologies (IBCAST), res.country(177,)

Citations: N/A

DOI: 10.1109/IBCAST51254.2021.9393199

Cryptanalysis of the ultralightweight MAC protocol
2019

Madiha Khalid Umar Mujahid Hyesung Park Muhammad Najam-ul-Islam

13th International Conference on Open Source Systems and Technologies (ICOSST), res.country(177,)

Citations: N/A

DOI: 10.1109/ICOSST48232.2019.9044036

Recursive Cryptanalysis of the IoT Authentication Protocol
2019

Muhammad Najam-ul-Islam Madiha Khalid Hyesung Park Umar Khokhar

2019 IEEE 1st Global Power, Energy and Communication Conference, GPECOM 2019, res.country(224,)

Citations: N/A

DOI: 10.1109/GPECOM.2019.8778569

Probabilistic full disclosure attack on IoT network authentication protocol
2019

Madiha Khalid Umar Mujahid Muhammad Najam-ul-Islam Binh Tran

2019 Future of Information and Communication Conference (FICC), res.country(233,)

Citations: N/A

DOI: 10.1007/978-3-030-12385-7_52

Cryptanalysis of Radio Frequency Identification System Mutual Authentication Protocol
2019

Muhammad Najam-ul-Islam Madiha Khalid Umar Mujahid Aniqa Tahir

2019 2nd International Conference on Communication, Computing and Digital Systems, C-CODE 2019, res.country(177,)

Citations: N/A

DOI: 10.1109/C-CODE.2019.8681046

Security framework of Ultralightweight Mutual Authentication Protocols for low cost RFID tags
2017

Madiha Khalid Umar Mujahid

2017 International Conference on Communication, Computing and Digital Systems, C-CODE 2017, res.country(177,)

Citations: N/A

DOI: 10.1109/C-CODE.2017.7918896

Editorial Activities

N/A
2025

Reviewed Papers for Journals

Impact Factor: N/A

N/A
2025

Reviewed Papers for Journals

Impact Factor: N/A

N/A   2025
Reviewed Papers for Journals
Impact Factor: N/A

N/A   2025
Reviewed Papers for Journals
Impact Factor: N/A

N/A   2025
Reviewed Papers for Journals
Impact Factor: N/A

                                                                           2025
Edited Journal Issue / Proceeding / Book
Impact Factor: N/A

IEEE Internet of Things Journal   2025
Reviewed Papers for Journals
Impact Factor: 8.3

Journal of Information Security and Applications   2025
Reviewed Papers for Journals
Impact Factor: 3.8

IEEE Internet of Things Journal   2025
Reviewed Papers for Journals
Impact Factor: 8

N/A   2024
Reviewed Papers for Journals
Impact Factor: --

N/A   2024
Reviewed Papers for Journals
Impact Factor: --

EasyChair   2024
Edited Journal Issue / Proceeding / Book
Impact Factor: N/A

N/A   2024
Reviewed Papers for Journals
Impact Factor: N/A

N/A   2024
Reviewed Papers for Journals
Impact Factor: N/A

EasyChair   2024
Edited Journal Issue / Proceeding / Book
Impact Factor: N/A

PLOS ONE   2024
Reviewed Papers for Journals
Impact Factor: 2.9

PLOS One   2024
Reviewed Papers for Journals
Impact Factor: 3.7

N/A   2024
Edited Journal Issue / Proceeding / Book
Impact Factor: N/A

N/A   2024
Edited Journal Issue / Proceeding / Book
Impact Factor: N/A

                                                                           2024
Edited Journal Issue / Proceeding / Book
Impact Factor: N/A