Qaiser Riaz

Associate Professor

School of Electrical Engineering and Computer Science

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Contact:
LinkedIn:

About

Dr. Qaiser Riaz is working as Associate Professor in the School of Electrical Engineering and Computer Science. Dr. Qaiser Riaz has a PhD in Human Motion Analysis. Dr. Qaiser Riaz has published 24 research articles & conference papers having a citation count of 538, carried out 4 projects and filed 0 intellectual property.

Qualifications

PhD in Human Motion Analysis   2012 - 2015
  Rheinische Friedrich-Wilhelms Universität Bonn , Germany

MS in Robotics   2008 - 2011
  Fachhochschule Bonn-Rhein-Sieg , Germany

MSc in Computer Science   2002 - 2004
  Sarhad University of Science & Information Technology, Peshawar , Pakistan

BSc in Mathematics, Statistics   1998 - 2000
  University of the Punjab , Pakistan

Experience

Associate Professor   2022- Present
  School of Electrical Engineering and Computer Science

Assistant Professor   2019 - 2022
  School of Electrical Engineering and Computer Science

Assistant Professor   2016 - 2019
  School of Electrical Engineering and Computer Science

Assistant Professor   2016 - 2016
  School of Electrical Engineering and Computer Science

Software Developer   2011 - 2016
  StartextGmbh , StartextGmbh, Germany

Senior Software Engineer   2007 - 2008
  Digital Processing Systems Inc., , Digital Processing Systems Inc., Islamabad0

Research Projects

National Projects

Automatic Classification of Instance of Ship Type using Acoustic Data 2024
    Funding Agency: NESCOM
    Amount: PKR 250,000.00
    Status: Approved_inprocess

Automatic Classification of Marine Vessels using Acoustic Data 2023
    Funding Agency: NESCOM
    Amount: PKR 250,000.00
    Status: Approved_inprocess

Detection of Ransomware-like Data Manipulation in Android Applications 2023
    Funding Agency: NCCS
    Amount: PKR 100,000.00
    Status: Approved_inprocess

Crop Monitoring via Remote Sensing from Earth Observation Satellites to UAVs 2018
    Funding Agency: DAAD
    Amount: PKR 12,352,440.00
    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
DOI: https://doi.org/10.32604/cmc.2025.064260

Lightweight and Robust Android Ransomware Detection Using Behavioral Analysis and Feature Reduction 2025
Mehdi Hussain Qaiser Riaz Sana Qadir Naveed Riaz Muhammad Sibtain Ki-Hyun Jung
Computers, Materials & Continua , Pages 1-23
Impact Factor: 1.700 | **Quartile:** 3
DOI: https://doi.org/10.32604/cmc.2025.066198

Towards Effective Parkinson's Monitoring: Movement Disorder Detection and Symptom Identification Using Wearable Inertial Sensors 2025
Umar Khan Qaiser Riaz Mehdi Hussain Muhammad Zeeshan Björn Krüger
Algorithms , Volume 18(4), Article Number 203
Impact Factor: 1.800 | **Quartile:** 2
DOI: https://doi.org/10.3390/a18040203

Intelligent parameter-based in-network IDS for IoT using UNSW-NB15 and BoT-IoT datasets 2025
Muhammad Luqman Qaiser Riaz Mehdi Hussain Hasan Tahir Muhammad Zeeshan Noman Mazhar Muhammad Saffeer Khan
Journal of the Franklin Institute , Volume 362, Issue 1, Article Number 107440
Impact Factor: 3.700 | **Quartile:** 1 | **Citations:** 4
DOI: https://doi.org/10.1016/j.jfranklin.2024.107440

Generisch-Net: A Generic Deep Model for Analyzing Human Motion with Wearable Sensors in the Internet of Health Things 2024
Kiran Hamza Qaiser Riaz Hamza Ali Imran Mehdi Hussain Björn Krüger
MDPI Sensors , Volume 24(19), Article Number 6167
Impact Factor: 3.400 | **Quartile:** 2 | **Citations:** 1
DOI: https://doi.org/10.3390/s24196167

Unveiling Fall Origins: Leveraging Wearable Sensors to Detect Pre-Impact Fall Causes 2024
Qaiser Riaz Mehdi Hussain Muhammad Zeeshan Björn Krüger Samia Kiran
IEEE Sensors Journal , Volume: 24, Issue: 15, Pages:24086-24095
Impact Factor: 4.300 | **Quartile:** 1 | **Citations:** 7
DOI: 10.1109/JSEN.2024.3407835

Smart-Wearable Sensors and CNN-BiGRU Model: A Powerful Combination for Human Activity Recognition

Hamza Ali Imran Qaiser Riaz Mehdi Hussain Hasan Tahir Razi Arshad

IEEE Sensors Journal, Volume: 24, Issue: 2, 15 January 2024

Impact Factor: 4.3 | **Quartile:** 1 | **Citations:** 12
DOI: 10.1109/JSEN.2023.3338264

2023

Hiding EPR and watermark in medical images using repeated pixel differencing

Hira Aftab Mehdi Hussain Qaiser Riaz Muhammad Zeeshan Ki-Hyun Jung

Multimedia Tools and Applications, Pages 1-29

Impact Factor: 3.6 | **Quartile:** 2 | **Citations:** 1
DOI: 10.1007/s11042-023-15434-6

2023

Machines Perceive Emotions: Identifying Affective States from Human Gait Using On-Body Smart Devices

Hamza Ali Imran Qaiser Riaz Muhammad Zeeshan Mehdi Hussain Razi Arshad

Applied Sciences, Volume 13, Issue 8, 4828

Impact Factor: 2.7 | **Quartile:** 2 | **Citations:** 4
DOI: 10.3390/app13084728

2023

A portable hardware security module and cryptographic key generator

Hasan Tahir Malik Hamza Murtaza Shahzaib Tahir Zahoor Ahmed Alizai Qaiser Riaz Mehdi Hussain

Journal of Information Security and Applications, Volume 70, Article Number 103332

Impact Factor: 4.960 | **Quartile:** 2 | **Citations:** 9
DOI: https://doi.org/10.1016/j.jisa.2022.103332

2022

Permissions-Based Detection of Android Malware Using Machine Learning

Fahad Akbar Mehdi Hussain Rafia Mumtaz Qaiser Riaz Ainuddin Wahid Abdul Wahab Ki-Hyun Jung

Symmetry, Volume 14(4), Article Number 718

Impact Factor: 2.7 | **Quartile:** 2 | **Citations:** 32
DOI: https://doi.org/10.3390/sym14040718

2022

Protocol-Based Deep Intrusion Detection for DoS and DDoS Attacks Using UNSW-NB15 and Bot-IoT Data-Sets

Muhammad Zeeshan Qaiser Riaz Muhammad Ahmad Bilal Muhammad Khuram Shahzad Hajira Jabeen Syed Ali Haider Azizur Rahim

IEEE Access, Volume 10, Pages 2269-2283

Impact Factor: 3.367 | **Quartile:** 2 | **Citations:** 137
DOI: 10.1109/ACCESS.2021.3137201

2022

PUF-Based Key Generation Scheme for Secure Group Communication Using MEMS

Mubarak Mehdi Muhammad Taha Ajani Hasan Tahir Shahzaib Tahir Zahoor Alizai Fawad Khan Qaiser Riaz Mehdi Hussain

Electronics, Volume 10(14), Article Number 1691

Impact Factor: 2.690 | **Quartile:** 3 | **Citations:** 11
DOI: https://doi.org/10.3390/electronics10141691

2021

Enhanced adaptive data hiding method using LSB and pixel value differencing

Mehdi Hussain Qaiser Riaz Ki-Hyun Jung Shahzad Saleem Abdul Ghafoor

Multimedia Tools and Applications, Pages 1-21

Impact Factor: 2.577 | **Quartile:** 2 | **Citations:** 32
DOI: https://doi.org/10.1007/s11042-021-10652-2

2021

Intrusion detection in internet of things using supervised machine learning based on application and transport layer features using UNSW-NB15 data-set

Muhammad Ahmad Muhammad Zeeshan Syed Ali Haider Muhammad Safeer Khan Hasan Tahir Qaiser Riaz

EURASIP Journal on Wireless Communications and Networking, Volume 2021, Article Number 10

Impact Factor: 2.559 | **Quartile:** 3 | **Citations:** 110
DOI: https://doi.org/10.1186/s13638-021-01893-8

2021

Motion Reveal Emotions: Identifying Emotions from Human Walk Using Chest Mounted Smartphone

Muhammad Zeeshan Muhammad Arslan Hashmi Qaiser Riaz Muhammad Shahzad Muhammad Moazam Fraz

IEEE Sensors Journal, Volume 20, Issue 22, Pages 13511-13522

Impact Factor: 3.301 | **Quartile:** 2 | **Citations:** 34
DOI: 10.1109/JSEN.2020.3004399

2020

Person Re-Identification Using Deep Modeling of Temporally Correlated Inertial Motion Patterns

2020

Imad Gohar Qaiser Riaz Muhammad Shahzad Muhammad Zeeshan Ul Hasnain Hashmi Hasan Tahir Muhammad Ehsan Ul Haq

Sensors , Volume 20, Issue 3, Article Number 949

Impact Factor: 3.576 | **Quartile:** 1 | **Citations:** 16
DOI: https://doi.org/10.3390/s20030949

What Lies Beneath One's Feet? Terrain Classification Using Inertial Data of Human Walk
2019

Muhammad Zeeshan Ul Hasnain Hashmi [OrcID] Qaiser Riaz Mehdi Hussain Muhammad Shahzad

Applied Sciences , Vol. 9 Issue 15, p3099-3099

Impact Factor: 2.474 | **Quartile:** 2 | **Citations:** 27
DOI: 10.3390/app9153099

DPRNet: Deep 3D Point based Residual Network for Semantic Segmentation and Classification of 3D Point Clouds
2019

Muhammad Shahzad Saira Arshad Qaiser Riaz Muhammad Moazam Fraz

IEEE Access , Volume: 7, Pages: 68892-68904

Impact Factor: 3.745 | **Quartile:** 1 | **Citations:** 30
DOI: 10.1109/ACCESS.2019.2918862

Move Your Body: Age Estimation Based on Chest Movement During Normal Walk
2019

Muhammad Shahzad Qaiser Riaz Muhammad Zeeshan Ul Hasnain Hashmi Muhammad Arsalan Hashmi Hassan Errami Andreas Weber

IEEE Access , IEEE ACCESS Volume: 7 Pages: 28510-28524

Impact Factor: 3.745 | **Quartile:** 1 | **Citations:** 22
DOI: 10.1109/ACCESS.2019.2901959

Relational databases for motion data
2016

Qaiser Riaz Björn Krüger Andreas Weber

International Journal of Innovative Computing and Applications , Volume 7, Issue. 3, Pages 119-134

Impact Factor: 0 | **Citations:** 2
DOI: 10.1504/IJICA.2016.078723

Motion reconstruction using very few accelerometers and ground contacts
2015

Guanhong Tao Björn Krüger Andreas Weber Qaiser Riaz

Graphical Models , Volume 79, Pages 23-38

Impact Factor: 0.821 | **Quartile:** 3 | **Citations:** 44
DOI: 10.1016/j.gmod.2015.04.001

Conference Proceedings

A Relational Database for Human Motion Data
2015

Qaiser Riaz Björn Krüger Andreas Weber

15th International Conference on Computational Science and Its Applications, res.country(38,)

Citations: N/A
DOI: 10.1007/978-3-319-21413-9_17

Book Chapters

Quantum and Post-Quantum Cybersecurity Challenges and Finance Organizations Readiness
2022

Razi Arshad Qaiser Riaz

In: *Handbook of Research on Cybersecurity Issues and Challenges for Business and FinTech Applications*, Chapter 16, Pages 314-337

Citations: 3
DOI: 10.4018/978-1-6684-5284-4.ch016

Editorial Activities

Bioengineering
2024
Reviewed Papers for Journals
Impact Factor: 3.8

IEEE Sensors Journal
2024
Reviewed Papers for Journals
Impact Factor: 4.3

Bioengineering
2024
Reviewed Papers for Journals

Impact Factor: 3.8

IEEE Sensors Letters   2024
  Reviewed Papers for Journals
  Impact Factor: 2.2

Measurement   2024
  Reviewed Papers for Journals
  Impact Factor: 5.2

Journal on Wireless Communications and Networking   2024
  Reviewed Papers for Journals
  Impact Factor: 2.6

Alexandria Engineering Journal   2024
  Reviewed Papers for Journals
  Impact Factor: 6.2

IEEE Sensors Journal   2024
  Reviewed Papers for Journals
  Impact Factor: 4.3

IEEE Transactions on Neural Systems & Rehabilitation Engineering   2024
  Reviewed Papers for Journals
  Impact Factor: 4.9

Aiman El-Maleh   2024
  Reviewed Papers for Journals
  Impact Factor: 2.9

Sensors   2024
  Reviewed Papers for Journals
  Impact Factor: 3.4

IEEE Sensors Journal   2024
  Reviewed Papers for Journals
  Impact Factor: 4.3

IEEE Sensors Journal   2023
  Reviewed Papers for Journals
  Impact Factor: 4.3

: IEEE Sensors Journal   2023
  Reviewed Papers for Journals
  Impact Factor: 4.3

IEEE Transactions on Neural Systems & Rehabilitation Engineering   2023
  Reviewed Papers for Journals
  Impact Factor: 4.9

Wearable Technologies   2023
  Reviewed Papers for Journals
  Impact Factor: 3.4

Computers and Electrical Engineering   2023
  Reviewed Papers for Journals
  Impact Factor: 4

Arabian Journal for Science and Engineering   2023
  Reviewed Papers for Journals
  Impact Factor: 2.9

Computer Methods in Biomechanics and Biomedical Engineering   2023
  Reviewed Papers for Journals
  Impact Factor: 1.7

PLOS ONE   2023
  Reviewed Papers for Journals
  Impact Factor: 3.7

Sensors   2023

Reviewed Papers for Journals
Impact Factor: 3.4

PLOS ONE 2023
Reviewed Papers for Journals
Impact Factor: 3.7

Arabian Journal for Science and Engineering 2023
Reviewed Papers for Journals
Impact Factor: 2.9

IEEE Transactions on Industrial Cyber-Physical Systems 2023
Reviewed Papers for Journals
Impact Factor: N/A

IEEE Sensors Journa 2023
Reviewed Papers for Journals
Impact Factor: 4.3

Transactions on Dependable and Secure Computing 2023
Reviewed Papers for Journals
Impact Factor: 7.3

N/A 2023
Reviewed Papers for Journals
Impact Factor: N/A

N/A 2023
Reviewed Papers for Journals
Impact Factor: N/A

IEEE Access 2023
Reviewed Papers for Journals
Impact Factor: 3.9

Sensors 2023
Reviewed Papers for Journals
Impact Factor: 3.9

International Journal of Environmental Research and Public Health 2023
Reviewed Papers for Journals
Impact Factor: N/A

IEEE Access 2023
Reviewed Papers for Journals
Impact Factor: 3.9

Diagnostics 2023
Reviewed Papers for Journals
Impact Factor: 3.6

Sensors 2022
Reviewed Papers for Journals
Impact Factor: 3.9

Sustainability 2022
Reviewed Papers for Journals
Impact Factor: 3.9

International Journal of Molecular Sciences 2022
Reviewed Papers for Journals
Impact Factor: 6.208

Electronics 2022
Reviewed Papers for Journals
Impact Factor: 2.690

EURASIP Journal on Advances in Signal Processing 2022
Reviewed Papers for Journals
Impact Factor: 1.759

IEEE Internet of Things Journal   2022
Reviewed Papers for Journals
Impact Factor: 9.471

Healthcare   2022
Reviewed Papers for Journals
Impact Factor: 3.160

Bioengineering   2022
Reviewed Papers for Journals
Impact Factor: 5.046

2076-3417   2022
Reviewed Papers for Journals
Impact Factor: 2.838

Transactions on Intelligent Transportation Systems   2022
Reviewed Papers for Journals
Impact Factor: 9.551

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

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

International Journal of Environmental Research and Public Health   2022
Reviewed Papers for Journals
Impact Factor: 4.614

Journal of Personalized Medicine   2022
Reviewed Papers for Journals
Impact Factor: 3.508

Healthcare   2022
Reviewed Papers for Journals
Impact Factor: 3.160

IEEE Access   2022
Reviewed Papers for Journals
Impact Factor: 3.476

Systems   2022
Reviewed Papers for Journals
Impact Factor: 2.895

Sensors   2022
Reviewed Papers for Journals
Impact Factor: 3.847

Healthcare   2022
Reviewed Papers for Journals
Impact Factor: 3.160

Healthcare   2022
Reviewed Papers for Journals
Impact Factor: 3.160

International Journal of Environmental Research and Public Health   2022
Reviewed Papers for Journals
Impact Factor: 4.614

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

Applied Sciences-Basel   2022
Reviewed Papers for Journals

Impact Factor: 2.838

Sensors   2021
Reviewed Papers for Journals
Impact Factor: 3.847

Applied Sciences-Basel   2021
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Impact Factor: 2.838

Applied Sciences-Basel   2021
Reviewed Papers for Journals
Impact Factor: 2.838

Electronics   2021
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Applied Sciences-Basel   2021
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Impact Factor: 2.838

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Impact Factor: 2.679

Reviewed Papers for Journals
Impact Factor: 3.576

Reviewed Papers for Journals
Impact Factor: 2.474

Edited Journal Issue / Proceeding / Book
Impact Factor: 2.474

Reviewed Papers for Journals
Impact Factor: 3.275

Reviewed Papers for Journals
Impact Factor: 3.745

Reviewed Papers for Journals
Impact Factor: 3.745

Reviewed Papers for Journals
Impact Factor: 3.275

Reviewed Papers for Journals
Impact Factor: 2.474

Edited Journal Issue / Proceeding / Book
Impact Factor: 3.745

Reviewed Papers for Journals
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2019

Reviewed Papers for Journals
Impact Factor: 2.474

2019

Reviewed Papers for Journals
Impact Factor: 2.217

2019

Reviewed Papers for Journals
Impact Factor: 1.764

2019

Reviewed Papers for Journals
Impact Factor: 4.098

2019

Reviewed Papers for Journals
Impact Factor: 2.143

2019

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2019

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2018

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Impact Factor: 1.689

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2017

Reviewed Papers for Journals
Impact Factor: 2.475