

Qaiser Riaz

Associate Professor

School of Electrical Engineering and Computer Science

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Contact:

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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 Rheinische Friedrich-Wilhelms Universität Bonn , Germany	2012 - 2015
MS in Robotics Fachhochschule Bonn-Rhein-Sieg , Germany	2008 - 2011
MSc in Computer Science Sarhad University of Science & Information Technology, Peshawar , Pakistan	2002 - 2004
BSc in Mathematics, Statistics University of the Punjab , Pakistan	1998 - 2000

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 Funding Agency: NESCOM Amount: PKR 250,000.00 Status: Approved_inprocess	2024
Automatic Classification of Marine Vessels using Acoustic Data Funding Agency: NESCOM Amount: PKR 250,000.00 Status: Approved_inprocess	2023
Detection of Ransomware-like Data Manipulation in Android Applications Funding Agency: NCCS Amount: PKR 100,000.00 Status: Approved_inprocess	2023
Crop Monitoring via Remote Sensing from Earth Observation Satellites to UAVs Funding Agency: DAAD Amount: PKR 12,352,440.00 Status: Approved_inprocess	2018

International Projects

Research Articles

Enhancing Ransomware Detection with Machine Learning Techniques and Effective API Integration <i>Asad Iqbal Mehdi Hussain Qaiser Riaz Madiha Khalid RAFIA MUMTAZ Ki-Hyun Jung</i> <i>Computers, Materials & Continua</i> , Pages 1-22 Impact Factor: 1.700 Quartile: 3 DOI: https://doi.org/10.32604/cmc.2025.064260	2025
Lightweight and Robust Android Ransomware Detection Using Behavioral Analysis and Feature Reduction <i>Mehdi Hussain Qaiser Riaz Sana Qadir Naveed Riaz Muhammad Sibtain Ki-Hyun Jung</i> <i>Computers, Materials & Continua</i> , Pages 1-23 Impact Factor: 1.700 Quartile: 3 DOI: https://doi.org/10.32604/cmc.2025.066198	2025
Towards Effective Parkinson's Monitoring: Movement Disorder Detection and Symptom Identification Using Wearable Inertial Sensors <i>Umar Khan Qaiser Riaz Mehdi Hussain Muhammad Zeeshan Björn Krüger</i> <i>Algorithms</i> , Volume 18(4), Article Number 203 Impact Factor: 1.800 Quartile: 2 DOI: https://doi.org/10.3390/a18040203	2025
Intelligent parameter-based in-network IDS for IoT using UNSW-NB15 and BoT-IoT datasets <i>Muhammad Luqman Qaiser Riaz Mehdi Hussain Hasan Tahir Muhammad Zeeshan Noman Mazhar Muhammad Saffeer Khan</i> <i>Journal of the Franklin Institute</i> , 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	2025
Generisch-Net: A Generic Deep Model for Analyzing Human Motion with Wearable Sensors in the Internet of Health Things <i>Kiran Hamza Qaiser Riaz Hamza Ali Imran Mehdi Hussain Björn Krüger</i> <i>MDPI Sensors</i> , Volume 24(19), Article Number 6167 Impact Factor: 3.400 Quartile: 2 Citations: 1 DOI: https://doi.org/10.3390/s24196167	2024
Unveiling Fall Origins: Leveraging Wearable Sensors to Detect Pre-Impact Fall Causes <i>Qaiser Riaz Mehdi Hussain Muhammad Zeeshan Björn Krüger Samia Kiran</i> <i>IEEE Sensors Journal</i> , Volume: 24, Issue: 15, Pages:24086-24095 Impact Factor: 4.300 Quartile: 1 Citations: 7 DOI: 10.1109/JSEN.2024.3407835	2024

Smart-Wearable Sensors and CNN-BiGRU Model: A Powerful Combination for Human Activity Recognition <i>Hamza Ali Imran Qaiser Riaz Mehdi Hussain Hasan Tahir Razi Arshad</i> <i>IEEE Sensors Journal</i> , 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 <i>Hira Aftab Mehdi Hussain Qaiser Riaz Muhammad Zeeshan Ki-Hyun Jung</i> <i>Multimedia Tools and Applications</i> , 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 <i>Hamza Ali Imran Qaiser Riaz Muhammad Zeeshan Mehdi Hussain Razi Arshad</i> <i>Applied Sciences</i> , 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 <i>Hasan Tahir Malik Hamza Murtaza Shahzaib Tahir Zahoor Ahmed Alizai Qaiser Riaz Mehdi Hussain</i> <i>Journal of Information Security and Applications</i> , 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 <i>Fahad Akbar Mehdi Hussain Rafia Mumtaz Qaiser Riaz Ainuddin Wahid Abdul Wahab Ki-Hyun Jung</i> <i>Symmetry</i> , 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 <i>Muhammad Zeeshan Qaiser Riaz Muhammad Ahmad Bilal Muhammad Khuram Shahzad Hajira Jabeen Syed Ali Haider Azizur Rahim</i> <i>IEEE Access</i> , 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 <i>Mubarak Mehdi Muhammad Taha Ajani Hasan Tahir Shahzaib Tahir Zahoor Alizai Fawad Khan Qaiser Riaz Mehdi Hussain</i> <i>Electronics</i> , 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 <i>Mehdi Hussain Qaiser Riaz Ki-Hyun Jung Shahzad Saleem Abdul Ghafoor</i> <i>Multimedia Tools and Applications</i> , 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 <i>Muhammad Ahmad Muhammad Zeeshan Syed Ali Haider Muhammad Safeer Khan Hasan Tahir Qaiser Riaz</i> <i>EURASIP Journal on Wireless Communications and Networking</i> , 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 <i>Muhammad Zeeshan Muhammad Arslan Hashmi Qaiser Riaz Muhammad Shahzad Muhammad Moazam Fraz</i> <i>IEEE Sensors Journal</i> , 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 UI Hasnain Hashmi Hasan Tahir Muhammad Ehsan UI 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 Walk2019

Muhammad Zeeshan UI 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](https://doi.org/10.3390/app9153099)

DPRNet: Deep 3D Point based Residual Network for Semantic Segmentation and Classification of 3D Point Clouds2019

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](https://doi.org/10.1109/ACCESS.2019.2918862)

Move Your Body: Age Estimation Based on Chest Movement During Normal Walk2019

Muhammad Shahzad Qaiser Riaz Muhammad Zeeshan UI 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](https://doi.org/10.1109/ACCESS.2019.2901959)

Relational databases for motion data2016

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](https://doi.org/10.1504/IJICA.2016.078723)

Motion reconstruction using very few accelerometers and ground contacts2015

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](https://doi.org/10.1016/j.gmod.2015.04.001)

Conference Proceedings

A Relational Database for Human Motion Data2015

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](https://doi.org/10.1007/978-3-319-21413-9_17)

Book Chapters

Quantum and Post-Quantum Cybersecurity Challenges and Finance Organizations Readiness2022

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](https://doi.org/10.4018/978-1-6684-5284-4.ch016)

Editorial Activities

Bioengineering2024

Reviewed Papers for Journals
Impact Factor: 3.8

IEEE Sensors Journal2024

Reviewed Papers for Journals
Impact Factor: 4.3

Bioengineering2024

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	
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Impact Factor: 2.397	
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Reviewed Papers for Journals Impact Factor: 2.679	2020
Reviewed Papers for Journals Impact Factor: 3.576	2020
Reviewed Papers for Journals Impact Factor: 2.474	2020
Edited Journal Issue / Proceeding / Book Impact Factor: 2.474	2020
Reviewed Papers for Journals Impact Factor: 3.275	2020
Reviewed Papers for Journals Impact Factor: 3.745	2020
Reviewed Papers for Journals Impact Factor: 3.745	2020
Reviewed Papers for Journals Impact Factor: 3.275	2020
Reviewed Papers for Journals Impact Factor: 2.474	2020
Edited Journal Issue / Proceeding / Book Impact Factor: 3.745	2020
Reviewed Papers for Journals Impact Factor: 2.474	2020

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
Reviewed Papers for Journals Impact Factor: -	2019
Reviewed Papers for Journals Impact Factor: 2.143	2019
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Reviewed Papers for Journals Impact Factor: 2.475	2017