Dr. Awais Mehmood Kamboh

Director Academics

University Main Office (UMO)

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About

Dr. Dr. Awais Mehmood Kamboh is working as Director Academics in the University Main Office (UMO). Dr. Dr. Awais Mehmood Kamboh has a PhD in Electrical Engineering. Dr. Dr. Awais Mehmood Kamboh has published 21 research articles & conference papers having a citation count of 483, carried out 6 projects and filed 0 intellectual property.

Qualifications

PhD in Electrical Engineering 2006 - 2010
Michigan State University , United States

MS in Electrical Engineering 2004 - 2006
University of Michigan - Ann Arbor , United States

BE in Electrical Engineering 1999 - 2003
NUST, Islamabad , Pakistan

Experience

Director Academics 2025- Present
University Main Office (UMO)

Professor 2022 - 2025
University Main Office (UMO)

Director Quality Assurance & NUST International Office 2022 - 2022
University Main Office (UMO)

Associate Professor 2019 - 2019
School of Electrical Engineering and Computer Science

Associate Professor 2017 - 2019
School of Electrical Engineering and Computer Science

Assistant Professor 2012 - 2017
School of Electrical Engineering and Computer Science

Assistant Professor 2011 - 2012
School of Electrical Engineering and Computer Science

Associate Professor 2019 - 2022
University of Jeddah , University of Jeddah, PO Box 80327, Jeddah, Saudi Arabia

ASIC Design Engineer 2007 - 2008
Evigia Systems, USA , 3810 Varsity Drive – Ann Arbor, MI, USA

Lab Demonstrator 2003 - 2004
Army Public College of Management and Sciences , APCOMS, Ordnance Road, Rawalpindi

Awards

Charles Wallace Trust 2017

Senior Member IEEE 2017

Best Research Paper 2010

Rector's Gold Medal 2003

Professional Memberships

PEC Since 2003

Research Projects

National Projects

Wearable EEG for pre-Diagnostic Screening of Mental Diseases in Rural areas 2018
Funding Agency: DAAD
Amount: PKR 12,226,040.00
Status: Approved_inprocess

Finite Control Set-Model Predictive Control (FCS-MPC) of Dual Active Bridge (DAB) Bidirectional Converters for Renewable Energy Systems 2017
Funding Agency: HEC
Amount: PKR 2,755,000.00
Status: Completed

Design and Development of General purpose processor 2017
Funding Agency: NESCOM
Amount: PKR 180,000.00
Status: Completed

Biometric Vaccination Record Management System 2015
Funding Agency: IGNITE
Amount: PKR 68,000.00
Status: Completed

Design of a Non-invasive Blood Glucose Meter using Hybrid Near Infrared and Photo Acoustic Spectroscopy 2013
Funding Agency: IGNITE
Amount: PKR 100,000.00
Status: Completed

Design and Implementation of Plug-in Series Hybrid Electric Vehicle 2012
Funding Agency: IGNITE
Amount: PKR 71,000.00
Status: Completed

International Projects

Research Articles

NeuroAssist: Open-Source Automatic Event Detection in Scalp EEG 2024
Mohammad Ali Alqarni Hira Masood Adil Jowad Qureshi Muiz Alvi Haziq Arbab Hassan Aqeel Khan Awais Mehmood Kamboh Saima Shafait Faisal Shafait
IEEE Access , Volume 12, Pages 170321-170334
Impact Factor: 3.400 | **Quartile:** 2 | **Citations:** 2
DOI: 10.1109/ACCESS.2024.3492673

The NMT Scalp EEG Dataset: An Open-Source Annotated Dataset of Healthy and Pathological EEG Recordings for Predictive Modeling 2022
Rahat Ul Ain Hassan Aqeel Khan Hammad Tanveer Butt Awais Mehmood Kamboh Saima Shafait Wasim Alamgir Didier Stricker Faisal Shafait
Frontiers in Neuroscience, Volume 15, Article Number 755817
Impact Factor: 5.152 | **Quartile:** 2 | **Citations:** 21
DOI: 10.3389/fnins.2021.755817

ForASec: Formal Analysis of Hardware Trojan-Based Security Vulnerabilities in Sequential Circuits 2021
Faiq Khalid Imran Hafeez Abbassi Semeen Rehman Awais Mehmood Kamboh Osman Hasan Muhammad Shafique
IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, -
Impact Factor: 2.565 | **Quartile:** 3 | **Citations:** 7
DOI: 10.1109/TCAD.2021.3061524

Epileptic Seizure Detection with a Reduced Montage: A Way Forward for Ambulatory EEG Devices 2020
Raheel Asif Sajid Saleem Syed Ali Hassan Soltan Alharbi Awais Mehmood Kamboh
IEEE Access , Volume 8, Pages 65880-65890
Impact Factor: 3.367 | **Quartile:** 2 | **Citations:** 16

DOI: 10.1109/ACCESS.2020.2983917

Computationally efficient fully-automatic online neural spike detection and sorting in presence of multi-unit activity for implantable circuits 2019

Taimoor Tariq M. Hashim Satti Hamid M. Kamboh Maryam Saeed Awais Mehmood Kamboh

Computer Methods and Programs in Biomedicine, Volume: 179, Article Number: UNSP 104986

Impact Factor: 3.632 | **Quartile:** 1 | **Citations:** 6

DOI: https://doi.org/10.1016/j.cmpb.2019.104986

Using gate-level side channel parameters for formally analyzing vulnerabilities in integrated circuits 2019

Imran Hafeez Abbasi F. K. Lodhi Osman Hasan A. Kamboh

Science of Computer Programming , Volume 171, Pages 42-66

Impact Factor: 0.775 | **Quartile:** 4 | **Citations:** 8

DOI: 10.1016/j.scico.2018.11.001

Dynamic Mode Decomposition Based Epileptic Seizure Detection from Scalp EEG 2018

Muhammad Sohaib J Solaija Khawar Khurshid Sajid Saleem Syed Ali Hassan Awais Mahmood Kamboh

IEEE Access , Volume 6 ,Page 38683 - 38692

Impact Factor: 4.098 | **Quartile:** 1 | **Citations:** 76

DOI: 10.1109/ACCESS.2018.2853125

McSeVIC: A Model Checking Based Framework for Security Vulnerability Analysis of Integrated Circuits 2018

Imran Hafeez Abbasi Awais Mehmood Kamboh Osman Hasan Faiq Khalid Muhammad Shafique

IEEE Access , Volume 6, Pages 32240-32257

Impact Factor: 4.098 | **Quartile:** 1 | **Citations:** 11

DOI: 10.1109/ACCESS.2018.2846583

Mallat's Scattering Transform Based Anomaly Sensing for Detection of Seizures in Scalp EEG 2017

Muhammad Zubair Ahmad Awais Mehmood Kamboh Sajid Saleem Amir Ali Khan

IEEE Access , Volume 5, Pages 16919-16929

Impact Factor: 3.557 | **Quartile:** 1 | **Citations:** 37

DOI: DOI:10.1109/ACCESS.2017.2736014

Comparison of Classifier Architectures for Online Neural Spike Sorting 2017

Maryam Saeed Awais Mehmood Kamboh Amir Ali Khan

IEEE Transactions on Neural Systems and Rehabilitation Engineering, Volume 25 Issue: 4 Pages: 334-344

Impact Factor: 3.972 | **Quartile:** 1 | **Citations:** 10

DOI: 10.1109/TNSRE.2016.2641499

Neuro-Cognitive Virtual Environment for Children with Autism (VECA) 2016

Eisha Waseem Khawar Khurshid Ghalib W. Janjua Imran Abeel Kiran Khurshid Munazza A. Mirza Awais Mehmood Kamboh

International Journal of Signal Processing Systems, Volume 4, No. 6, Pages 469-474

Impact Factor: N/A

DOI: NA

A scalable architecture for geometric correction of multi-projector display systems 2015

Kamran Babar Rehan Hafiz Khawar Khurshid Awais M. Kamboh Ali Hassan Farhan Riaz Byeungwoo Jeon

Displays , Volume 40, Pages 104-112

Impact Factor: 1.903 | **Quartile:** 1 | **Citations:** 3

DOI: 10.1016/j.displa.2015.05.009

Adaptive Threshold Neural Spike Detector Using Stationary Wavelet Transform in CMOS 2015

Yuning Yang C. Sam Boling Awais Mehmood Kamboh Andrew Mason

IEEE Transactions on Neural Systems and Rehabilitation Engineering, Volume 23, No. 6, Pages 946-955

Impact Factor: 3.188 | **Quartile:** 1 | **Citations:** 22

DOI: DOI:10.1109/TNSRE.2015.2425736

A CMOS Micro-power and Area Efficient Neural Recording and Stimulation Front-End for Biomedical Applications 2015

Sami ur Rehman Awais Mehmood Kamboh

Circuits, Systems, and Signal Processing, Volume 34, Issue 6, Pages 1725-1746

Impact Factor: 1.178 | **Quartile:** 3 | **Citations:** 16

DOI: doi:10.1007/s00034-014-9935-x

American Sign Language Translation through Sensory Glove; SignSpeak 2015

Jan Fizza Bukhari Maryam Rehman Saman Ishtiaq Malik Awais Mehmood Kamboh Ahmad Salman

International Journal of U- E-Service, Science Technology, Volume 8, Issue 1, Pages 131-141

Impact Factor: N/A
DOI: http://dx.doi.org/10.14257/ijunesst.2015.8.1.12

A configurable realtime DWT-based neural data compression and communication VLSI system for wireless implants 2013

Yuning Yang Awais Mehmood kamboh Andrew Mason

Journal of Neuroscience Methods, Volume: 227 Pages: 140-150

Impact Factor: 1.959 | **Quartile:** 3 | **Citations:** 5
DOI: 10.1016/j.jneumeth.2014.02.009

A Power and Area Efficient 8-Channel Neural Signal Front End for Biomedical Applications 2013

Sami ur Rehman Awais Mehmood Kamboh

International Journal of Electronics and Electrical Engineering, Volume 1, Issue 1

Impact Factor: N/A
DOI: 10.12720/ijeee.1.1.26-30

Computationally Efficient Neural Feature Extraction for Spike Sorting in Implantable High-Density Recording Systems 2013

Awais Mehmood Kamboh Andrew Mason

IEEE Transactions on Neural Systems and Rehabilitation Engineering, Volume: 21, Issue: 1, Pages: 1-9

Impact Factor: 2.821 | **Quartile:** 1 | **Citations:** 67
DOI: 10.1109/TNSRE.2012.2211036

Analysis of Lifting and B-Spline DWT Implementations for Implantable Neuroprosthetics 2008

Awais Mehmood Kamboh Andrew Mason Karim Oweiss

Journal of Signal Processing Systems, Volume 52, Pages 249–261

Impact Factor: N/A | **Citations:** 7
DOI: https://doi.org/10.1007/s11265-007-0155-5

A Scalable Wavelet Transform VLSI Architecture for Real-Time Signal Processing in High-Density Intra-Cortical Implants 2007

Karim Oweiss Andrew Mason Yasir Suhail Awais Mehmood Kamboh Kyle Thomson

IEEE Transactions on Circuits and Systems I: Regular Papers, Volume 54, Issue 6, Pages 1266-1278

Impact Factor: 1.204 | **Quartile:** 2 | **Citations:** 104
DOI: 10.1109/TCSI.2007.897726

Area-Power Efficient VLSI Implementation of Multichannel DWT for Data Compression in Implantable Neuroprosthetics 2007

Awais Mehmood Kamboh Matthew Raetz Karim Oweiss Andrew Mason

Transactions on Biomedical Circuits and Systems, Volume 1, Issue 2, Pages 128-135

Impact Factor: N/A | **Citations:** 65
DOI: 10.1109/TBCAS.2007.907557