Muhammad Iqbal

Assistant Professor

School of Interdisciplinary Engineering & Sciences

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About

Dr. Muhammad Iqbal is working as Assistant Professor in the School of Interdisciplinary Engineering & Sciences. Dr. Muhammad Iqbal has a PhD in Systems Engineering. Dr. Muhammad Iqbal has published 23 research articles & conference papers having a citation count of 627, carried out 0 projects and filed 0 intellectual property.

Qualifications

PhD in Systems Engineering 2017 - 2020
University of Brunei Darussalam , Brunei Darussalam

MS in Automation and Control 2013 - 2016
N.W.F.P University of Engineering & Technology Peshawar , Pakistan

BS in Computer Engineering 2008 - 2012
COMSATS Institute of Information Technology , Pakistan

Experience

Assistant Professor 2024- Present
School of Interdisciplinary Engineering & Sciences

Assistant Professor 2021 - 2024
Khwaja Fareed University of Engineering and Information Technology , Rahim Yar Khan

Resident Engineer 2013 - 2014
Jaffar Brother/ ZONG , Islamabad

Research Articles

Advanced Feature Extraction for Cervical Cancer Image Classification: Integrating Neural Feature Extraction and AutoInt Models 2025
Muhammad Iqbal Sandra Dudley Afia Zafar Kainat Zafar Adil Ali Saleem Hafeez Ur Rehman Siddiqui Muhammad Amjad Raza
Sensors , Volume:25(9), Article Number:2826, Pages:22
Impact Factor: 3.5 | **Quartile:** 2
DOI: 10.20944/preprints202411.0203

IoT-driven smart agricultural technology for real-time soil and crop optimization 2025
Muhammad Iqbal Hammad Shahab Muhammad Naeem Muhammad Aqeel Syed Sajid Ullah
Smart Agricultural Technology , Volume:10, Article Number 100847
Impact Factor: 5.7 | **Quartile:** 1 | **Citations:** 14
DOI: 10.1016/j.atech.2025.100847

Milk adulteration identification using hyperspectral imaging and machine learning 2025
Muhammad Iqbal Syed Sajid Ullah Muhammad Aqeel Ahmed Sohaib
Journal of Dairy Science , Volume: 108, Issue: 2, Pages:1301-1314
Impact Factor: 3.7 | **Quartile:** 1 | **Citations:** 7
DOI: https://doi.org/10.3168/jds.2024-25635

A Synergistic Approach to Colon Cancer Detection: Leveraging EfficientNet and NSGA-II for Enhanced Diagnostic Performance 2024
Noushin Saba Afia Zafar Mohsin Suleman Kainat Zafar Shahneer Zafar Adil Ali Saleem Hafeez Ur Rehman Siddiqui Muhammad Iqbal Syed Sajid Ullah
IEEE Access , Volume 12, Pages 192264-192278
Impact Factor: 3.400 | **Quartile:** 2
DOI: 10.1109/ACCESS.2024.3519216

Hyperspectral Identification of Milk Adulteration Using Advance Deep Learning 2024

Muhammad Iqbal Syed Sajid Ullah Ahmed Sohaib Muhammad Aqeel

IEEE Access , Volume 12, Pages 174965-174982

Impact Factor: 3.400 | **Quartile:** 2 | **Citations:** 2

DOI: 10.1109/ACCESS.2024.3504334

Design and implementation of an IoT-based monitoring system for early detection of lumpy skin disease in cattle 2024

Muhammad Iqbal Hammad Shahab Ahmed Sohaib Atiq ur Rehman Amine Bermak Kashif Munir

Smart Agricultural Technology , Volume 9, Article Number 100609

Impact Factor: 6.300 | **Quartile:** 1 | **Citations:** 4

DOI: 10.1016/j.atech.2024.100609

Design, Development, and Testing of Microplanar Coil-Based Hydrokinetic Electromagnetic-Type Energy Harvester for IoT Sensors 2024

Muhammad Iqbal Iftikhar Ahmad Maryam Abbas Ahmed M. Abdelrhman Subramanian Chithambaram Syed Asad Imam Mahmood Hammad Muneeb Ullah Anjum

Journal of Engineering , Volume 2024, Article ID 1985367, 13 pages

Impact Factor: 1.700 | **Quartile:** 2

DOI: 10.1155/2024/1985367

Ultra-Wide Band Radar Empowered Driver Drowsiness Detection with Convolutional Spatial Feature Engineering and Artificial Intelligence 2024

Muhammad Iqbal Hafeez Ur Rehman Siddiqui Ambreen Akmal Adil Ali Saleem Muhammad Amjad Raza Kainat Zafar Aqsa Zaib Sandra Dudley Jon Arambarri Ángel Kuc Castilla Furqan Rustam

Sensors , Volume 24, Issue 12, Article Number 3754

Impact Factor: 3.400 | **Quartile:** 2 | **Citations:** 4

DOI: 10.3390/s24123754

Hyperspectral identification of oil adulteration using machine learning techniques 2024

Muhammad Iqbal Muhammad Aqeel Ahmed Sohaib Hafeez Ur Rehman Siddiqui Furqan Rustam

Current Research in Food Science, Volume 8, Article Number 100773

Impact Factor: 6.200 | **Quartile:** 1 | **Citations:** 16

DOI: 10.1016/j.crfs.2024.100773

Hybrid acoustic, vibration, and wind energy harvester using piezoelectric transduction for self-powered wireless sensor node applications 2023

Izhar Muhammad Iqbal Farid Khan

Energy Conversion and Management , Volume 277, Article Number 116635

Impact Factor: 9.900 | **Quartile:** 1 | **Citations:** 32

DOI: 10.1016/j.enconman.2022.116635

Power harvesting footwear based on piezo-electromagnetic hybrid generator for sustainable wearable microelectronics 2022

Muhammad Iqbal Farid Ullah Khan Murtuza Mehdi Quentin Cheok Emeroylariffion Abas Malik Muhammad Nauman

Journal of King Saud University - Engineering Sciences, Volume 34, Issue 5, Pages 329-338

Impact Factor: N/A | **Citations:** 12

DOI: 10.1016/j.jksues.2020.11.003

A Pressure-Based Electromagnetic Energy Harvester for Pipeline Monitoring Applications 2022

Muhammad Iqbal Sadia Bakhtiar Farid Ullah Khan Wahad Ur Rahman Atif Sardar Khan Muhammad Masood Ahmad

Journal of Sensors , Volume 2022, Article ID 6529623, 16 pages

Impact Factor: 1.900 | **Quartile:** 3 | **Citations:** 9

DOI: https://doi.org/10.1155/2022/6529623

Nonlinear multi-mode electromagnetic insole energy harvester for human-powered body monitoring sensors: Design, modeling, and characterization 2021

Muhammad Iqbal Malik Muhammad Nauman Farid Ullah Khan Emeroylariffion Abas Quentin Cheok Brahim Aissa

Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, Volume 235, Issue 22, Pages 6415-6426

Impact Factor: 1.758 | **Quartile:** 3 | **Citations:** 13

DOI: 10.1177/0954406221991178

Multimodal hybrid piezoelectric-electromagnetic insole energy harvester using PVDF generators 2020

Muhammad Iqbal Malik Muhammad Nauman Farid Ullah Khan Pg Emeroylariffion Abas Quentin Cheok Asif Iqbal Brahim Aissa

Electronics , Volume 9, Issue 4, Article Number 635

Impact Factor: 2.397 | **Quartile:** 3 | **Citations:** 46
DOI: 10.3390/electronics9040635

Slot-die coated active carbon films for hydrogen storage applications 2019
Muhammad Iqbal M. M Nauman K. H Choi M. Mehdi A. Iqbal A.F. Rafique Q.C.H. Nam J.H. Zaini
Acta Physica Polonica A, Volume 135, Issue 4, Pages 705-712
Impact Factor: 0.579 | **Quartile:** 4 | **Citations:** 3
DOI: 10.12693/APhysPolA.135.705

Hybrid vibration and wind energy harvesting using combined piezoelectric and electromagnetic conversion for bridge health monitoring applications 2018
Muhammad Iqbal Farid Ullah Khan
Energy Conversion and Management, Volume 172, Pages 611-618
Impact Factor: 7.181 | **Quartile:** 1 | **Citations:** 207
DOI: 10.1016/j.enconman.2018.07.044

Electromagnetic Bridge Energy Harvester Utilizing Bridge's Vibrations and Ambient Wind for Wireless Sensor Node Application 2018
Farid Ullah Khan Muhammad Iqbal
Journal of Sensors, Volume 2018, Article ID 3849683, 18 pages
Impact Factor: 2.024 | **Quartile:** 2 | **Citations:** 49
DOI: 10.1155/2018/3849683

Fuzzy logic approach for investigation of microstructure and mechanical properties of Sn96.5-Ag3.0-Cu0.5 lead free solder alloy 2017
Muhammad Aamir Izhar Muhammad Waqas Muhammad Iqbal Muhammad Imran Hanif Riaz Muhammad
Soldering & Surface Mount Technology, Volume 29, Issue 4, Pages 191-198
Impact Factor: 1.137 | **Quartile:** 3 | **Citations:** 17
DOI: 10.1108/SSMT-02-2017-0005

Development of a testing rig for vibration and wind based energy harvesters 2016
Muhammad Iqbal Farid Ullah Khan
Journal of Engineering & Applied Sciences (JEAS), Vol. 35 No. 2, Pages 101-110
Impact Factor: N/A
DOI: 10.25211/JEAS.V35I2.2064

Conference Proceedings

Electromagnetic-based bridge energy harvester using traffic-induced bridge's vibrations and ambient wind 2016
Muhammad Iqbal Farid Ullah Khan
2016 International Conference on Intelligent Systems Engineering, ICISE 2016, res.country(177,)
Citations: N/A
DOI: 10.1109/INTELSE.2016.7475152