Muhammad Ajmal Khan

Professor of Practice

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About

Dr. Muhammad Ajmal Khan is working as Professor of Practice in the School of Electrical Engineering and Computer Science. Dr. Muhammad Ajmal Khan has a PhD in Electrical Engineering. Dr. Muhammad Ajmal Khan has published 12 research articles & conference papers having a citation count of 159, carried out 0 projects and filed 0 intellectual property.

Qualifications

PhD in Electrical Engineering 2005 - 2008
Michigan State University , United States

MS in Electrical Engineering 2004 - 2004
Michigan State University , United States

MS in Avionics Engineering 2002 - 2003
NUST, Islamabad , Pakistan

BE in Avionics Engineering 1988 - 1991
NED UET Karachi , Pakistan

Experience

Professor of Practice 2024- Present
School of Electrical Engineering and Computer Science

Professor of Practice 2023 - 2024
School of Electrical Engineering and Computer Science

Defence Faculty 2021 - 2023
School of Electrical Engineering and Computer Science

Defence Faculty 2020 - 2021
College of Aeronautical Engineering

2009 - 2012
College of Aeronaucial Engineering

Research Articles

Temporal assessment of forest cover dynamics in response to forest fires and other environmental impacts using AI 2024

Shehla Noor Rafia Mumtaz Muhammad Ajmal Khan

Environmental Monitoring and Assessment, Volume 196, Article Number 893

Impact Factor: 2.900 | **Quartile:** 3

DOI: https://doi.org/10.1007/s10661-024-12992-6

Unmanned surface vehicle for intelligent water quality assessment to promote sustainable human health 2024

Muhammad Ibtsaam Qadir Rafia Mumtaz Mariam Manzoor Misbah Saleem Muhammad Ajmal Khan Susanne Charlesworth

Water Supply , Volume 24, Issue 7, Pages 2259-2270

Impact Factor: 1.900 | **Quartile:** 3 | **Citations:** 2

DOI: https://doi.org/10.2166/ws.2024.141

Cardiac Arrhythmia Classification Using Advanced Deep Learning Techniques on Digitized ECG Datasets 2024

Shoaib Sattar Rafia Mumtaz Mamoon Qadir Sadaf Mumtaz Muhammad Ajmal Khan Timo De Waele Eli De Poorter Ingrid Moerman Adnan Shahid

Sensors , Volume 24(8), Article Number 2484

Impact Factor: 3.900 | **Quartile:** 2 | **Citations:** 12

DOI: https://doi.org/10.3390/s24082484

Deforestation detection and reforestation potential due to natural disasters—A case study of floods 2024

Muhammad Hassan Maqsood Rafia Mumtaz Muhammad Ajmal Khan

Remote Sensing Applications: Society and Environment, Volume 34, Article Number: 101188, Pages: 18

Impact Factor: 3.800 | **Quartile:** 2 | **Citations:** 4

DOI: 10.1016/j.rsase.2024.101188

Tackling food insecurity using remote sensing and machine learning based crop yield prediction 2023

Uferah Shafi Rafia Mumtaz Zahid Anwar Muhammad Muzyyab Ajmal Muhammad Ajmal Khan Zahid Mahmood Maqsood Qamar Hafiz Muhammad Jhanzab

IEEE Access , Volume 11, Pages 108640-108657

Impact Factor: 3.9 | **Quartile:** 2 | **Citations:** 38

DOI: 10.1109/ACCESS.2023.3321020

Impact of Green Energy Transportation Systems on Urban Air Quality: A Predictive Analysis Using Spatiotemporal Deep Learning Techniques 2023

Rafia Mumtaz Arslan Amin Muhammad Ajmal Khan Muhammad Daud Abdullah Asif Zahid Anwar Muhammad Jawad Bashir

Energies , Volume 16, Issue 16, Article Number 6087

Impact Factor: 3.2 | **Quartile:** 3 | **Citations:** 6

DOI: https://doi.org/10.3390/en16166087

Gold-coated zinc oxide nanowire-based substrate for surface-enhanced Raman spectroscopy 2009

Muhammad Ajmal Khan Timothy P Hogan B. Shanker

Journal of Raman Spectroscopy, Volume 40, Issue 11, Pages 1539-1545

Impact Factor: 3.147 | **Quartile:** 1 | **Citations:** 50

DOI: https://doi.org/10.1002/jrs.2296

Surface-enhanced Raman scattering from gold-coated germanium oxide nanowires 2008

Muhammad Ajmal Khan Timothy P Hogan B. Shanker

Journal of Raman Spectroscopy , Volume 39, Issue 7, Pages 893-900

Impact Factor: 3.526 | **Quartile:** 1 | **Citations:** 43

DOI: https://doi.org/10.1002/jrs.1931

Conference Proceedings

Low temperature synthesis of germanium oxide nanowires by thermal evaporation of germanium in an oxidizing environment 2009

Muhammad Ajmal Khan Muhammad Farhan Timothy P. Hogan

2009 IEEE Nanotechnology Materials and Devices Conference, NMDC 2009, res.country(233,)

Citations: N/A

DOI: https://doi.org/10.1109/NMDC.2009.5167532

Surface Plasmon Structures for Surface-Enhanced Raman Scattering 2007

Muhammad Ajmal Khan He Huang B. Shanker Timothy P. Hogan

Material Research Society (MRS) Fall 2007, res.country(233,)

Citations: N/A

DOI: https://doi.org/10.1557/PROC-1055-GG14-04

Books

Leveraging IoT and Machine Learning for Smart Urban Planning 2025

Muneer Ahmad Malik RAFIA MUMTAZ Muhammad Ajmal Khan

Pages 1-348

Citations: N/A

DOI: https://doi.org/10.4018/979-8-3693-9030-6