# Kunwar Faraz


Professor of Practice

School of Mechanical & Manufacturing Engineering

**Email:** hodrai@smme.nust.edu.pk
**Contact:** 051222758
**LinkedIn:** https://www.linkedin.com/feed/?midToken=AQE1kLUT7QV8aA&midSig=2uVFbDv1LaZpA1&trk=eml-email_network_conversations_01-header-10-home&trkEmail=eml-email_network_conversations_01-header-10-home-null-xu09t


## About

Dr. Kunwar Faraz is working as Professor of Practice in the School of Mechanical & Manufacturing Engineering. Dr. Kunwar Faraz has a PhD in Mobile Robotics. Dr. Kunwar Faraz has published 6 research articles & conference papers having a citation count of 104, carried out 1 projects and filed 1 intellectual property.

## Qualifications

**PhD in Mobile Robotics** 2006 - 2008
University of Toronto , Canada

**MSc in Robotics** 2003 - 2005
University of Toronto , Canada

**BSc in Mecchanical Engineering** 1990 - 1993
College of Electrical and Mechanical Engineering , Pakistan

## Experience

**Professor of Practice** 2024- Present
School of Mechanical & Manufacturing Engineering

**Defence Faculty** 2020 - 2024
College of Electrical & Mechanical Engineering

**Prof** 2021 - 2022
EME College , EME College Peshawer Rd

## Professional Memberships

**PEC** Since 1994

## Research Projects

### National Projects

**Development and Production of an AGILE Quadruped Robot**
**Funding Agency:** HEC
**Amount:** PKR 14,680,000.00
**Status:** Approved_inprocess

### International Projects

## Research Articles

**Z-Number-Based Fuzzy Logic Approach for Mobile Robot Navigation** 2023

*Osama Ali Khan Kunwar Faraz Ahmed Khan Umar Shahbaz Khan Hamid Jabbar*

*IEEE Access* , Volume 11, Pages 131979-131997

**Impact Factor:** 3.9 | **Quartile:** 2 | **Citations:** 1

**DOI:** 10.1109/ACCESS.2023.3336014

**Towards automated weed detection through two-stage semantic segmentation of tobacco and weed pixels in aerial Imagery** 2023

*Syed Imran Moazzam Umar Shahbaz Khan Waqar Shahid Qureshi Tahir Habib Nawaz Kunwar Faraz Ahmed Khan*

*Smart Agricultural Technology* , Volume 4, Article Number 100142

**Impact Factor:** N/A | **Citations:** 32

**DOI:** https://doi.org/10.1016/j.atech.2022.100142

**Patch-wise weed coarse segmentation mask from aerial imagery of sesame crop** 2022

*Syed Imran Moazzam Umar Shahbaz Khan Waqar Shahid Qureshi Mohsin Islam Tiwana Nasir Rashid Ameer Hamza Kunwar Faraz Ahmed Tahir Habib Nawaz*

*Computers and electronics in agriculture* , Volume 203, Article Number 107458

**Impact Factor:** 6.757 | **Quartile:** 1 | **Citations:** 12

**DOI:** https://doi.org/10.1016/j.compag.2022.107458

**A novel approach of overtaking maneuvering using modified RG method** 2022

*Usman Ghumman Hamid Jabbar Mohsin Islam Tiwana Kunwar Faraz Ihsan Ullah Khalil*

*PLoS One* , Volume 17(1), Pages e0260455

**Impact Factor:** 3.240 | **Quartile:** 2 | **Citations:** 2

**DOI:** https://doi.org/10.1371/journal.pone.0260455

**Guided Autowave Pulse Coupled Neural Network (GAPCNN) based real time path planning and an obstacle avoidance scheme for mobile robots** 2014

*Usman Ahmed Syed Kunwar Faraz Mazhar Iqbal Tabassam*

*Robotics and Autonomous Systems* , Volume 62, Issue 4, Pages 474-486

**Impact Factor:** 1.256 | **Quartile:** 2 | **Citations:** 57

**DOI:** 10.1016/j.robot.2013.12.004

## Conference Proceedings

**Investigation of Deep Learning Methods for Disease Detection in Cotton Fields using UAV Imagery** 2025

*Anwar Iqbal Kunwar Faraz Shahbaz Khan Syed Irtiza Ali Shah Zartasha Mustansar Muhammad Azhar Javeed*

*IEEE 2nd International Conference on Emerging Technologies in Electronics, Computing and Communication (ICETECC)* res.country(177,)

**Citations:** N/A

**DOI:** Nil

## Intellectual Property

### Copyrights

### Patents

### Industrial Designs

**Hybrid Walk and Roll Quadruped Robot (Class-01)** 2022

**Status:** Granted Filed

### Trademarks