Usman Asad

Senior Lecturer

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About

Dr. Usman Asad is working as Senior Lecturer in the College of Electrical & Mechanical Engineering. Dr. Usman Asad has published 6 research articles & conference papers having a citation count of 89, carried out 1 projects and filed 0 intellectual property.

Qualifications

M.E in Modelling And Simulation 2011 - 2013
Rochester Institute of Technology , United States

BE in Mechanical Engineering 2005 - 2009
NUST, Islamabad , Pakistan

Experience

Senior Lecturer 2025- Present
College of Electrical & Mechanical Engineering

Lecturer 2014 - 2014
College of Electrical & Mechanical Engineering

Engineer-III 2009 - 2011
Fatima Fertilizer Company Ltd , Fatima Fertilizer Company Ltd, Sadiqabad

Research Projects

National Projects

Humanoid Assistant Robotic Platform (HARP) 2023
Funding Agency: NUST
Amount: PKR 14,024,000.00
Status: Approved_inprocess

International Projects

Research Articles

Biomechanical Modeling of Human–Robot Accident Scenarios: A Computational Assessment for Heavy-Payload-Capacity Robots 2023

Usman Asad Shummaila Rasheed Waqas Akbar Lughmani Tayyaba Kazim Azfar Khalid Jürgen Pannek

Applied Sciences , Volume 13, Issue 3, Article Number 1957

Impact Factor: 2.7 | **Quartile:** 2 | **Citations:** 7
DOI: https://doi.org/10.3390/app13031957

Conference Proceedings

Performance Evaluation of Modern Object Detection Models for Automated Fruit Recognition in Smart Agriculture 2025

Usman Asad Ayesha Zeb Sarmad Ahmad Saad Bin Imran

2025 11th International Conference on Mechatronics and Robotics Engineering, ICMRE 2025, res.country(75,)

Citations: N/A

DOI: 10.1109/ICMRE64970.2025.10976263

Kinematic Analysis of Pitch Angle for the Platform of a Shrimp Rover in an Unstructured Terrain 2020

Uzair Khaleeq uz Zaman Usman Asad Uzair Khaleeq uz Zaman Usman Asad Sehrish Shahnawaz Raja Amer Azim Uzair Khaleeq uz Zaman Usman Asad

6th International Conference on Control, Automation and Robotics (ICCAR), res.country(197,)

Citations: N/A

DOI: 10.1109/ICCAR49639.2020.9108060

Formal Verification and Development of an Autonomous Firefighting Robotic Model 2019

Umar Shahbaz Khan Usman Asad Anum Tahir Kashif Saghar Harris Bin Khalid Umar Shadab Butt

3rd IEEE International Conference on Robotics and Automation in Industry, res.country(177,)

Citations: N/A

DOI: 10.1109/ICRAI47710.2019.8967388

Impact of Inter Tine Coupling on the Spring Constant of the Quartz Tuning Fork 2019

Sajid Parveez Danish Hussain Usman Asad

2019 IEEE International Conference on Mechatronics and Automation (ICMA), res.country(48,)

Citations: N/A

DOI: 10.1109/ICMA.2019.8816492