Kanwal Naveed

Assistant Professor

College of Electrical & Mechanical Engineering

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About

Dr. Kanwal Naveed is working as Assistant Professor in the College of Electrical & Mechanical Engineering. Dr. Kanwal Naveed has a PhD in Electrical Engineering. Dr. Kanwal Naveed has published 12 research articles & conference papers having a citation count of 7, carried out 1 projects and filed 1 intellectual property.

Qualifications

PhD in Electrical Engineering 2017 - 2025
NUST, Islamabad , Pakistan

MS in Control Systems 2011 - 2013
NUST, Islamabad , Pakistan

BS in Control Systems 2007 - 2011
International Islamic University , Pakistan

Experience

Assistant Professor 2017- Present
College of Electrical & Mechanical Engineering

Lecturer 2014 - 2017
College of Electrical & Mechanical Engineering

Internship 2010 - 2010
NOKIA SIEMENS , 6th Floor, Sarena Business Complex, Sector G-5/1, Khayaban-e-Suharwardy Islamabad

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

Help Me Through: Imitation Learning Based Active View Planning to Avoid SLAM Tracking Failures 2025
Kanwal Naveed Muhammad Wajahat Hussain Irfan Hussain Donghwan Lee Muhammad Latif Anjum
IEEE Transactions on Robotics, Volume: 41, Page(s):4236-4252
Impact Factor: 10.500 | **Quartile:** 1
DOI: 10.1109/TRO.2025.3582817

Conference Proceedings

Deeper Introspective SLAM: How to Avoid Tracking Failures Over Longer Routes? 2024

Kanwal Naveed Muhammad Latif Anjum Muhammad Wajahat Hussain Dong won Lee

IEEE/RSJ International Conference on Intelligent Robots and Systems., res.country(2,)

Citations: N/A

DOI: Nil

Design and Development of Power Generation System for Thermo-Acoustically Driven Devices 2024

Muhammad Zeeshan Ur Rehman Uzair Khaleeq uz Zaman Abdur Rehman Mazhar Umar Nawaz Bhatti Kanwal Naveed

2nd International Conference on Modern Technologies in Mechanical & Materials Engineering (MTME-2024), res.country(177,)

Citations: N/A

DOI: 10.1051/matecconf/202439801010

Development of Automated Guided Vehicle for Warehouse Automation of a Textile Factory 2021

Uzair Khaleeq uz Zaman Anas Bin Aqeel Kanwal Naveed Usman Asad Hassan Nawaz Muhammad Gufran

2021 International Conference on Robotics and Automation in Industry (ICRAI), res.country(177,)

Citations: N/A

DOI: 10.1109/ICRAI54018.2021.9651360

Overcoming Uncertainties and Disturbances: An Adaptive Control Approach for Mobile Robots 2021

Kanwal Naveed Uzair Khaleeq Zaman Atal Anil Kumar

2021 IEEE 17th International Conference on Automation Science and Engineering (CASE), res.country(75,)

Citations: N/A

DOI: 10.1109/CASE49439.2021.9551520

Tuning of PID Controller Using Whale Optimization Algorithm for Different Systems 2021

Uzair Khaleeq uz Zaman Kanwal Naveed Atal Anil Kumar

2021 International Conference on Digital Futures and Transformative Technologies (ICoDT2), res.country(177,)

Citations: N/A

DOI: 10.1109/ICoDT252288.2021.9441526

An RPLiDAR based SLAM equipped with IMU for Autonomous Navigation of Wheeled Mobile Robot 2020

Muhammad Saad Aslam Muhammad Irfan Aziz Kanwal Naveed Uzair Khaleeq uz Zaman

2020 IEEE 23rd International Multitopic Conference (INMIC), res.country(177,)

Citations: N/A

DOI: 10.1109/INMIC50486.2020.9318133

Adaptive Path Tracking Control Design for a Wheeled Mobile Robot 2017

Kanwal Naveed Zeashan Hameed Khan

3rd International Conference on Control Science and Systems Engineering, res.country(48,)

Citations: N/A

DOI: 10.1109/CCSSE.2017.8087922

Book Chapters

Internet of Things for Manufacturing Industry 2023

Atal Anil Kumar Usman Qamar Kanwal Naveed Uzair Khaleeq uz Zaman

In: *Handbook of Manufacturing Systems and Design: An Industry 4.0 Perspective*, Chapter 1, 1st Edition, Pages:10

Citations: N/A

DOI: 10.1201/9781003327523-13

Control Strategies: A Pathway to Adaptive and Learning Techniques 2023

Kanwal Naveed Atal Anil Kumar

In: *Handbook of Manufacturing Systems and Design An Industry 4.0 Perspective*, Chapter 7, 1st Edition, Pages:16

Citations: N/A

DOI: 10.1201/9781003327523-9

Robotic Systems 2023

Kanwal Naveed Uzair Khaleeq Uz Zaman

In: *Handbook of Manufacturing Systems and Design An Industry 4.0 Perspective*, Chapter 5, 1st Edition, Pages:21

Citations: N/A

DOI: 10.1201/9781003327523-7

Editorial Activities

Taylor & Francis 2023

Edited Journal Issue / Proceeding / Book

Impact Factor: N/A

Intellectual Property

Copyrights

Patents

Industrial Designs

Flexible Mobile Automated Guided Vehicle Platform 2021

Status: Filed

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