

Kanwal Naveed

Assistant Professor
College of Electrical & Mechanical Engineering

Email: kanwalnaveed@ceme.nust.edu.pk
Contact: 515162061
LinkedIn:



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 NUST, Islamabad , Pakistan	2017 - 2025
MS in Control Systems NUST, Islamabad , Pakistan	2011 - 2013
BS in Control Systems International Islamic University , Pakistan	2007 - 2011

Experience

Assistant Professor College of Electrical & Mechanical Engineering	2017- Present
Lecturer College of Electrical & Mechanical Engineering	2014 - 2017
Internship NOKIA SIEMENS , 6th Floor, Sarena Business Complex, Sector G-5/1, Khayaban-e-Suharwardy Islamabad	2010 - 2010

Research Projects

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

Research Articles

Help Me Through: Imitation Learning Based Active View Planning to Avoid SLAM Tracking Failures 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	2025
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Conference Proceedings

Deeper Introspective SLAM: How to Avoid Tracking Failures Over Longer Routes? <i>Kanwal Naveed Muhammad Latif Anjum Muhammad Wajahat Hussain Dong won Lee</i> <i>IEEE/RSJ International Conference on Intelligent Robots and Systems., res.country(2,)</i> Citations: N/A DOI: Nil	2024
Design and Development of Power Generation System for Thermo-Acoustically Driven Devices <i>Muhammad Zeeshan Ur Rehman Uzair Khaleeq uz Zaman Abdur Rehman Mazhar Umar Nawaz Bhatti Kanwal Naveed</i> <i>2nd International Conference on Modern Technologies in Mechanical & Materials Engineering (MTME-2024), res.country(177,)</i> Citations: N/A DOI: 10.1051/mateconf/202439801010	2024
Development of Automated Guided Vehicle for Warehouse Automation of a Textile Factory <i>Uzair Khaleeq uz Zaman Anas Bin Aqeel Kanwal Naveed Usman Asad Hassan Nawaz Muhammad Gufran</i> <i>2021 International Conference on Robotics and Automation in Industry (ICRAI), res.country(177,)</i> Citations: N/A DOI: 10.1109/ICRAI54018.2021.9651360	2021
Overcoming Uncertainties and Disturbances: An Adaptive Control Approach for Mobile Robots <i>Kanwal Naveed Uzair Khaleeq Zaman Atal Anil Kumar</i> <i>2021 IEEE 17th International Conference on Automation Science and Engineering (CASE), res.country(75,)</i> Citations: N/A DOI: 10.1109/CASE49439.2021.9551520	2021
Tuning of PID Controller Using Whale Optimization Algorithm for Different Systems <i>Uzair Khaleeq uz Zaman Kanwal Naveed Atal Anil Kumar</i> <i>2021 International Conference on Digital Futures and Transformative Technologies (ICoDT2), res.country(177,)</i> Citations: N/A DOI: 10.1109/ICoDT252288.2021.9441526	2021
An RPLiDAR based SLAM equipped with IMU for Autonomous Navigation of Wheeled Mobile Robot <i>Muhammad Saad Aslam Muhammad Irfan Aziz Kanwal Naveed Uzair Khaleeq uz Zaman</i> <i>2020 IEEE 23rd International Multitopic Conference (INMIC), res.country(177,)</i> Citations: N/A DOI: 10.1109/INMIC50486.2020.9318133	2020
Adaptive Path Tracking Control Design for a Wheeled Mobile Robot <i>Kanwal Naveed Zeashan Hameed Khan</i> <i>3rd International Conference on Control Science and Systems Engineering, res.country(48,)</i> Citations: N/A DOI: 10.1109/CCSSE.2017.8087922	2017

Book Chapters

Internet of Things for Manufacturing Industry <i>Atal Anil Kumar Usman Qamar Kanwal Naveed Uzair Khaleeq uz Zaman</i> <i>In: Handbook of Manufacturing Systems and Design: An Industry 4.0 Perspective , Chapter 1, 1st Edition, Pages:10</i> Citations: N/A DOI: 10.1201/9781003327523-13	2023
Control Strategies: A Pathway to Adaptive and Learning Techniques <i>Kanwal Naveed Atal Anil Kumar</i> <i>In: Handbook of Manufacturing Systems and Design An Industry 4.0 Perspective, Chapter 7, 1st Edition, Pages:16</i> Citations: N/A DOI: 10.1201/9781003327523-9	2023
Robotic Systems <i>Kanwal Naveed Uzair Khaleeq Uz Zaman</i> <i>In: Handbook of Manufacturing Systems and Design An Industry 4.0 Perspective, Chapter 5, 1st Edition, Pages:21</i> Citations: N/A DOI: 10.1201/9781003327523-7	2023

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	

Trademarks