

Muhammad Saqib Nazir

Assistant Professor
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About

Dr. Muhammad Saqib Nazir is working as Assistant Professor in the School of Mechanical & Manufacturing Engineering. Dr. Muhammad Saqib Nazir has a PhD in Artificial Intelligence. Dr. Muhammad Saqib Nazir has published 10 research articles & conference papers having a citation count of 104, carried out 0 projects and filed 0 intellectual property.

Qualifications

PhD in Artificial Intelligence NUST, Islamabad , Pakistan	2017 - 2023
MS in Electrical Engg (Control System) Capital University of Science and Technology, Islamabad , Pakistan	2014 - 2016
BS in (Telecommunication) COMSATS Institute of Information Technology , Pakistan	2005 - 2009

Experience

Assistant Professor School of Mechanical & Manufacturing Engineering	2024- Present
Lab Engineer School of Electrical Engineering and Computer Science	2012 - 2024

- Regulation of depth of hypnosis through optimized AI-based robust nonlinear controller** 2025
Mishal Imam Iftikhar Ahmad Muhammad Saqib Nazir
Biomedical Signal Processing and Control, Volume 104, Article Number 107489
Impact Factor: 4.900 | **Quartile:** 1
DOI: <https://doi.org/10.1016/j.bspc.2024.107489>
- Artificial neural network-based nonlinear control and modeling of a DC microgrid incorporating regenerative FC/HPEV and energy storage system** 2024
Umm e Ammara Syeda Shafia Zehra Saqib Nazir Iftikhar Ahmad
Renewable Energy Focus, Volume 49, Article Number 100565
Impact Factor: 4.200 | **Quartile:** 2 | **Citations:** 8
DOI: [10.1016/j.ref.2024.100565](https://doi.org/10.1016/j.ref.2024.100565)
- Optimized nonlinear controller for fuel cell, supercapacitor, battery, hybrid photoelectrochemical and photovoltaic cells based hybrid electric vehicles** 2023
Shahid Hassan Mian Muhammad Saqib Nazir Iftikhar Ahmad Safdar Abbas Khan
Energy, Volume 283, Article Number 129121
Impact Factor: 8.9 | **Quartile:** 1 | **Citations:** 16
DOI: [10.1016/j.energy.2023.129121](https://doi.org/10.1016/j.energy.2023.129121)
- Robust nonlinear control of regenerative fuel cell, supercapacitor, battery and wind based direct current microgrid** 2023
Ahmad Raza Muhammad Kashif Azeem Muhammad Saqib Nazir Iftikhar Ahmad
Journal of Energy Storage, Volume 64, Article Number 107158
Impact Factor: 8.907 | **Quartile:** 1 | **Citations:** 13
DOI: <https://doi.org/10.1016/j.est.2023.107158>
- Fuzzy optimized conditioned-barrier nonlinear control of electric vehicle for grid to vehicle & vehicle to grid applications** 2023
Abu Zar Iftikhar Ahmad Muhammad Saqib Nazir Ijaz Ahmed
Journal of Energy Storage, Volume:64, Article Number 107251
Impact Factor: 8.907 | **Quartile:** 1 | **Citations:** 20
DOI: <https://doi.org/10.1016/j.est.2023.107251>
- Hierarchical control of hybrid direct current microgrid with variable structure based sliding mode control and fuzzy energy management system** 2022
Maria Badar Iftikhar Ahmad Sana Rehman Muhammad Saqib Nazir Adeel Waqas Ahmad
Journal of the Franklin Institute, Volume 359, Issue 13, Pages 6856-6892
Impact Factor: 4.100 | **Quartile:** 1 | **Citations:** 17
DOI: <https://doi.org/10.1016/j.jfranklin.2022.06.044>
- Control of Transformerless Inverter-Based Two-Stage Grid-Connected Photovoltaic System Using Adaptive-PI and Adaptive Sliding Mode Controllers** 2021
Waqar Uddin Hee-Je Kim Kamran Zeb Muhamamd Saqib Nazir Iftikhar Ahmad
Energies, Volume 14(9), Article Number 2546
Impact Factor: 3.252 | **Quartile:** 3 | **Citations:** 14
DOI: <https://doi.org/10.3390/en14092546>
- Adaptive Control of Fuel Cell and Supercapacitor Based Hybrid Electric Vehicles** 2020
Iftikhar Ahmad Muhammad Saqib Nazir Muhammad Jawad Khan Yasar Ayaz Hammad Armghan
Energies, Volume 13(21), Article Number 5587
Impact Factor: 3.004 | **Quartile:** 3 | **Citations:** 15
DOI: <https://doi.org/10.3390/en13215587>

System identification of a closed loop mechanical system using physics inspired neural network

2025

Muhammad Yousuf Eisa Muhammad Saqib Nazir Hassan Moin Shahbaz Khan Syed Irtiza Ali Shah Zartasha Mustansar

2025 International Conference on Emerging Technologies in Electronics, Computing, and Communication (ICETECC), res.country(177,)

Citations: N/A

DOI: 10.1109/ICETECC65365.2025.11070267

Back-stepping based Pressure Controller for Managed Pressure Drilling

2020

Muhammad Saqib Nazir Iftikhar Ahmad Muhammad Noaman Zahid

2020 17th International Bhurban Conference on Applied Sciences and Technology (IBCAST), res.country(177,)

Citations: 1

DOI: 10.1109/IBCAST47879.2020.9044573