Anjum Naeem Malik

Assistant Professor

College of Electrical & Mechanical Engineering

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About

Dr. Anjum Naeem Malik is working as Assistant Professor in the College of Electrical & Mechanical Engineering. Dr. Anjum Naeem Malik has a PhD in Biomedical Sciences and Engineering. Dr. Anjum Naeem Malik has published 17 research articles & conference papers having a citation count of 121, carried out 2 projects and filed 0 intellectual property.

Qualifications

PhD in Biomedical Sciences and Engineering   2017 - 2021
  Koc University , Turkey

MS in Mechatronics Engineering   2013 - 2017
  NUST, Islamabad , Pakistan

Post Grad Diploma in Mechatronics Engineering   2007 - 2011
  Air University , Pakistan

Experience

Assistant Professor   2022- Present
  College of Electrical & Mechanical Engineering

Postdoctoral Research Assistant   2021 - 2022
  Koc University , Istanbul, Turkey

Research and Teaching Assistant   2017 - 2021
  koc University , Istanbul, Turkey

Senior Service Engineer   2015 - 2017
  Analytical Measuring Systems Pvt. Ltd. , Office No: 4&5, 3rd Floor, Huzaifa Center, Plot 32, 1-8 Markaz, Islamabad, Pakistan.

Technical Support Supervisor   2013 - 2015
  Pakistan Microbiological Associates Pvt. Ltd. , Mall Plaza, Mall Road Saddar RWP

Field Service Engineer   2012 - 2013
  Pakistan Microbiological Associates Pvt. Ltd. , Mall Plaza, Mall Road Saddar RWP

Research Projects

National Projects

Process health monitoring of CNC machines using Artificial Intelligence (AI)   2025
  Funding Agency: PSF-TUBITAK
  Amount: PKR 20,000,000.00
  Status: Approved_inprocess

Development of a Level-5 Autonomous Ground Vehicle targeted for logistics operation   2023
  Funding Agency: NUST
  Amount: PKR 6,322,000.00
  Status: Approved_inprocess

International Projects

Research Articles

Frost detection and defrost control: Emerging trends, methods, and experimental evaluations   2025
  Hassan Akbar Anjum Naeem Malik Tahir Habib Nawaz Hassan Elahi Hammad Ur Rahman Ismail Lazoglu Huzzam Hassan
  International Journal of Refrigeration , Volume:179, Page:121-141

Ice growth detection and the de-icing using dual functional capacitive sensor
2024

Anjum Naeem Malik Hammad ur Rahman Ismail Lazoglu

Measurement, Volume 237, Article Number 115208

Health monitoring of CNC machining processes using machine learning and wavelet packet transform
2024

Abbas Hussain Taha Al Muhammadee Janjua Anjum Naeem Malik Antash Najib Shaheryar Atta Khan

Mechanical Systems and Signal Processing, Volume 212, Article Number 111326

Effective image processing-based technique for frost detection and quantification in domestic refrigerators
2024

Hammad ur Rahman Hassan Akbar Anjum Naeem Malik Tahir Habib Nawaz Ismail Lazoglu

International Journal of Refrigeration, Volume:160, Pages 217-228

A novel smart disinfection system using 3D-printed and electrically conductive composite hydrogel
2024

Shaheryar Atta Khan Anjum Naeem Malik Basak Velioglu Seref Gul Ibrahim Halil Kavakli Ismail Lazoglu

Emergent Materials, Pages: 12

Comparison of constant and variable discharge flow and force coefficients for reciprocating compressor
2023

Pouya Pashak Ahmet Yasin Karabay Caglar Sahin Anjum Naeem Malik Ismail Lazoglu

International Journal of Refrigeration, Volume 151, Pages 370-384

Ruthenium-induced corneal collagen crosslinking under visible light
2022

Ayesha Gulzar Erdost Yıldız Hümeyra N. Kaleli Muhammad A. Nazeer Noushin Zibandeh Anjum Naeem Malik Ayse Y. Tas Ismail Lazoglu Afsun Sahin Seda Kizilel

Acta Biomaterialia, Volume 147, Pages 198-208

Comparison of the Morphologic and Mechanical Features of Human Cranial Dura and Other Graft Materials Used for Duraplasty
2022

Anjum Naeem Malik Safiye Cavdar Selcuk Surucu Mazhar Ozkan Busra Kose Evren Aydogmus Ozgul Tanis Ismail Lazoglu

World Neurosurgery, Volume 159, Pages e199-e207

Impact of the Amyotrophic Lateral Sclerosis Disease on the Biomechanical Properties and Oxidative Stress Metabolism of the Lung Tissue Correlated With the Human Mutant SOD1G93A Protein Accumulation
2022

Anjum Naeem Malik Duygu Aydemir Ibrahim Kulac Ayse Nazli Basak Ismail Lazoglu Nuriye Nuray Ulusu

Frontiers in Bioengineering and Biotechnology, Volume 10, Article Number 810243

A novel demand-actuated defrost approach based on the real-time thickness of frost for the energy conservation of a refrigerator
2021

Anjum Naeem Malik Shaheryar Atta Khan Ismail Lazoglu

International Journal of Refrigeration, Volume:131, Page:168-177

A novel hybrid frost detection and defrosting system for domestic refrigerators Nouveau système hybride de détection de givre et de dégivrage pour les réfrigérateurs domestiques

2020

Shaheryar Atta Khan Anjum Naeem Malik Ismail Lazoglu

International Journal of Refrigeration, Volume 117, Pages 256-268

Impact Factor: 3.629 | **Quartile:** 2 | **Citations:** 34
DOI: 10.1016/j.ijrefrig.2020.05.016

Temporal based EEG Signals Classification for Talocrural and Knee Joint Movements using Emotive Head Set

2016

Anjum Naeem Malik Mohsin Islam Tiwana Javaid Iqbal

Journal of Biomedical Engineering and Medical Imaging, Volume 2, Issue no 6

Impact Factor: 0
DOI: 10.14738/jbemi.26.1730

Conference Proceedings

Robust State of Charge Estimation of Lithium-Ion Batteries Using a Nonlinearity-Aware PID Observer

2024

Hafiz Muhammad Jawaad Muhammad Saeed Hamid Jabbar Anjum Naeem Malik Hassan Elahi Umar Shahbaz Khan

2024 International Conference on Robotics and Automation in Industry (ICRAI), res.country(177,)

Citations: N/A
DOI: 10.1109/ICRAI62391.2024.10894055

Physics-Informed Machine Learning for State of Charge Estimation of Lithium-Ion Batteries

2024

Hafiz Muhammad Jawaad Muhammad Saeed Anjum Naeem Malik Arash Khalatbarisoltani Hassan Elahi Umar Shahbaz Khan

2024 International Conference on Robotics and Automation in Industry (ICRAI), res.country(177,)

Citations: N/A
DOI: 10.1109/ICRAI62391.2024.10894277

Deep Learning-Based Approach for Frost Quantification in Domestic Refrigerators

2024

Hassan Akbar Huzzam Hassan Anjum Naeem Malik Tahir Habib Nawaz

2024 International Conference on Robotics and Automation in Industry (ICRAI), res.country(177,)

Citations: N/A
DOI: 10.1109/ICRAI62391.2024.10894264

A Low-cost Photoelectric Based Displacement Measurement System To Quantify Valve Lift Motion In Reciprocating Type Compressors

2022

Anjum Naeem Malik Pouya Pashak Caglar Sahin Ismail Lazoglu

26th International Compressor Engineering Conference at Purdue, res.country(233,)

Citations: N/A
DOI: Nil

EEG signals classification and determination of optimal feature-classifier combination for predicting the movement intent of lower limb

2016

Anjum Naeem Malik Javaid Iqbal Mohsin Islam Tiwana

2016 2nd International Conference on Robotics and Artificial Intelligence (ICRAI), res.country(177,)

Citations: N/A
DOI: 10.1109/ICRAI.2016.7791226

Editorial Activities

PLOS One

2024

Reviewed Papers for Journals
Impact Factor: 2.9