Danyal Mahmood

Assistant Professor

School of Mechanical & Manufacturing Engineering

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About

Dr. Danyal Mahmood is working as Assistant Professor in the School of Mechanical & Manufacturing Engineering. Dr. Danyal Mahmood has a PhD in EEG Signal processing and Analysis. Dr. Danyal Mahmood has published 11 research articles & conference papers having a citation count of 55, carried out 0 projects and filed 0 intellectual property.

Qualifications

PhD in EEG Signal processing and Analysis 2021 - 2024
Universiti Tunku Abdul Rahman , Malaysia

MS in Machine Learning 2018 - 2020
Pakistan Institute of Engineering and Applied Sciences (PIEAS) , Pakistan

BSc in Computer Engineering 2012 - 2016
UET Taxila , Pakistan

Experience

Assistant Professor 2024- Present
School of Mechanical & Manufacturing Engineering

Production Supervisor 2016 - 2017
Akhter Solar Ltd , 310, Main Aurangzeb Road, E-7, Islamabad

Intern 2016 - 2016
National Defense Complex , NDC, Street # 18, I-9/3, Islamabad

Research Articles

Exploring the efficacy of neurofeedback training in modulating alpha-frequency band and its effects on functional connectivity and band power 2024
Danyal Mahmood Humaira Nisar Chi-Yi Tsai
Expert Systems with Applications , Volume 254, Article Number 124415
Impact Factor: 7.500 | **Quartile:** 1 | **Citations:** 7
DOI: https://doi.org/10.1016/j.eswa.2024.124415

Attention-related power and functional connectivity modulation associated with long-term alpha neurofeedback training 2024
Danyal Mahmood Humaira Nisar Rab Nawaz Yap Vooi Voon Chi-Yi Tsai
Biomedical Signal Processing and Control, Volume 87, Part B , Article Number 105431
Impact Factor: 4.900 | **Quartile:** 1 | **Citations:** 6
DOI: https://doi.org/10.1016/j.bspc.2023.105431

The Effect of Music Listening on EEG Functional Connectivity of Brain: A Short-Duration and Long-Duration Study 2022
Danyal Mahmood Humaira Nisar Yap Vooi Voon Chi-Yi Tsai
Mathematics , Volume 10, Issue 3, Article Number 349
Impact Factor: 2.300 | **Quartile:** 1 | **Citations:** 33
DOI: https://doi.org/10.3390/math10030349

Conference Proceedings

Analyzing the Effect of Relaxing Natural Sounds on the Human Brain During Alpha Up-Regulation Neurofeedback Training 2024

Humaira Nisar Yin Ni Ong Danyal Mahmood

2024 IEEE 8th International Conference on Signal and Image Processing Applications (ICSIPA), res.country(157,)

Citations: N/A

DOI: 10.1109/ICSIPA62061.2024.10686849

Congruency Effect During Attention Network Task for Electroencephalogram-Based Alpha Neurofeedback Training 2024

Danyal Mahmood Humaira Nisar Siti Atiyah Ali

2024 IEEE 6th Eurasia Conference on Biomedical Engineering, Healthcare and Sustainability (ECBIOS), res.country(227,)

Citations: N/A

DOI: 10.1109/ECBIOS61468.2024.10885517

3D Virtual Fitting Network (3D VFN) 2024

Danyal Mahmood Wei Wen Leong Humaira Nisar Ahmad Uzair bin Mazlan

4th International Conference on Image Processing and Vision Engineering, IMPROVE 2024, res.country(75,)

Citations: N/A

DOI: 10.5220/0012726900003720

Effectiveness of Online Ocular Artifact Removal from Electroencephalogram Signal during Neurofeedback Training 2022

Danyal Mahmood Ho Jun Leong Humaira Nisar

2022 International Conference on Emerging Trends in Smart Technologies, ICETST 2022, res.country(177,)

Citations: N/A

DOI: 10.1109/ICETST55735.2022.9922942

Removal of Physiological Artifacts from Electroencephalogram Signals: A Review and Case Study 2021

Danyal Mahmood Humaira Nisar Yap Vooi Voon

2021 IEEE 9th Conference on System, Process and Control, ICSPC 2021, res.country(157,)

Citations: N/A

DOI: 10.1109/ICSPC53359.2021.9689094

Comparison of Segmentation Performance of Activated Sludge Flocs Using Bright-Field and Phase-Contrast Microscopy at Different Magnifications 2021

Der Sheng Tan Danyal Mahmood Humaira Nisar Kim Ho Yeap Veerendra Dakulagi Ahmed Elaraby

IOP Conference Series: Earth and Environmental Science , res.country(157,)

Citations: N/A

DOI: 10.1088/1755-1315/945/1/012024

Book Chapters

Einführung in nicht-invasive biomedizinische Signale für die Gesundheitsversorgung 2024

Danyal Mahmood Hannan Naseem Riaz Humaira Nisar

In: *Book on Fortschritte in der nicht-invasiven biomedizinischen Signalverarbeitung mit ML*, 1st Edition, Chapter 1, Pages 1-28

Citations: N/A

DOI: https://doi.org/10.1007/978-3-031-52856-9_1

Introduction to Non-Invasive Biomedical Signals for Healthcare 2023

Danyal Mahmood Hannan Naseem Riaz Humaira Nisar

In: *Book on Advances in Non-Invasive Biomedical Signal Sensing and Processing with Machine Learning* 1st Edition, Chapter 1, Pages 1-24

Citations: 9

DOI: https://doi.org/10.1007/978-3-031-23239-8_1

Editorial Activities

Frontiers in Neuroscience 2025

Reviewed Papers for Journals

Impact Factor: 3.2

N/A 2025

Reviewed Papers for Journals

Impact Factor: N/A

N/A 2025

Reviewed Papers for Journals

Impact Factor: N/A

N/A 2025

Reviewed Papers for Journals

Impact Factor: N/A