

# 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 54, carried out 0 projects and filed 0 intellectual property.

## Qualifications

<b>PhD in EEG Signal processing and Analysis</b> Universiti Tunku Abdul Rahman , Malaysia	2021 - 2024
<b>MS in Machine Learning</b> Pakistan Institute of Engineering and Applied Sciences (PIEAS) , Pakistan	2018 - 2020
<b>BSc in Computer Engineering</b> UET Taxila , Pakistan	2012 - 2016

## Experience

<b>Assistant Professor</b> School of Mechanical & Manufacturing Engineering	2024- Present
<b>Production Supervisor</b> Akhter Solar Ltd , 310, Main Aurangzeb Road, E-7, Islamabad	2016 - 2017
<b>Intern</b> National Defense Complex , NDC, Street # 18, I-9/3, Islamabad	2016 - 2016

## Research Articles

<b>Exploring the efficacy of neurofeedback training in modulating alpha-frequency band and its effects on functional connectivity and band power</b> <i>Danyal Mahmood Humaira Nisar Chi-Yi Tsai</i> <i>Expert Systems with Applications</i> , Volume 254, Article Number 124415 <b>Impact Factor:</b> 7.500   <b>Quartile:</b> 1   <b>Citations:</b> 7 <b>DOI:</b> <a href="https://doi.org/10.1016/j.eswa.2024.124415">https://doi.org/10.1016/j.eswa.2024.124415</a>	2024
<b>Attention-related power and functional connectivity modulation associated with long-term alpha neurofeedback training</b> <i>Danyal Mahmood Humaira Nisar Rab Nawaz Yap Vooi Voon Chi-Yi Tsai</i> <i>Biomedical Signal Processing and Control</i> , Volume 87, Part B , Article Number 105431 <b>Impact Factor:</b> 4.900   <b>Quartile:</b> 1   <b>Citations:</b> 6 <b>DOI:</b> <a href="https://doi.org/10.1016/j.bspc.2023.105431">https://doi.org/10.1016/j.bspc.2023.105431</a>	2024
<b>The Effect of Music Listening on EEG Functional Connectivity of Brain: A Short-Duration and Long-Duration Study</b> <i>Danyal Mahmood Humaira Nisar Yap Vooi Voon Chi-Yi Tsai</i> <i>Mathematics</i> , Volume 10, Issue 3, Article Number 349 <b>Impact Factor:</b> 2.300   <b>Quartile:</b> 1   <b>Citations:</b> 33 <b>DOI:</b> <a href="https://doi.org/10.3390/math10030349">https://doi.org/10.3390/math10030349</a>	2022

Conference Proceedings

Analyzing the Effect of Relaxing Natural Sounds on the Human Brain During Alpha Up-Regulation  
Neurofeedback Training  
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  
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)  
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  
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  
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  
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  
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  
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: 8  
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	