

Wajid Mumtaz

Associate Professor

School of Electrical Engineering and Computer Science

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LinkedIn:



About

Dr. Wajid Mumtaz is working as Associate Professor in the School of Electrical Engineering and Computer Science. Dr. Wajid Mumtaz has a PhD in Electrical & Electronic Engineering. Dr. Wajid Mumtaz has published 37 research articles & conference papers having a citation count of 1553, carried out 3 projects and filed 0 intellectual property.

Qualifications

PhD in Electrical & Electronic Engineering	2011 - 2017
Universiti Teknologi Petronas , Malaysia	
MS in Computer Engineering	2009 - 2009
UET Taxila , Pakistan	
BSc in Electrical Engineering	2002 - 2005
UET Taxila , Pakistan	

Experience

Associate Professor	2022- Present
School of Electrical Engineering and Computer Science	
Assistant Professor	2019 - 2022
School of Electrical Engineering and Computer Science	
Post Doc Researcher	2018 - 2019
University of West Bohemia , Pilsen, Czech Republic	
Post-doc researcher	2017 - 2018
Universiti Teknologi PETRONAS , Bandar Seri Iskandar, Perak, Malaysia	
Research Scientist	2015 - 2017
Universiti Teknologi PETRONAS , Bandar Seri Iskandar, Perak, Malaysia	
Lecturer	2008 - 2011
COMSATS University Islamabad , Chak Shahzad, Islamabad	
AM	2006 - 2008
Air Weapons Complex, NESCOM , Wah Cantt	

Professional Memberships

IEEE	Since 2020
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Research Projects

National Projects

Development of Machine Learning based Radio Channel Models for Challenging Outdoor Scenarios in 5G and Beyond Millimeter-wave Radio Networks

Funding Agency: Pakistan Science Foundation
Amount: PKR 2,029,000.00
Status: Approved_inprocess

A Brain-Computer Interface (BCI) enabled Motion Intent Recognition System for Assistive Robotics2022

Funding Agency: NUST
Amount: PKR 904,937.00
Status: Completed

A Thought-to-Text (T2T) system for physically disabled persons2021

Funding Agency: HEC
Amount: PKR 2,610,000.00
Status: Completed

International Projects

Research Articles

EEG-CNN-Souping: Interpretable emotion recognition from EEG signals using EEG-CNN-souping model and explainable AI2025

Wajid Mumtaz Eamin Chaudary Sheeraz Ahmad Khan
Computers and Electrical Engineering , Volume: 123, Part C, Article Number:110189, Pages:11
Impact Factor: 4.9 | Quartile: 1 | Citations: 1
DOI: <https://doi.org/10.1016/j.compeleceng.2025.110189>

EEG-ConvNet: Convolutional networks for EEG-based subject-dependent emotion recognition2024

Sheeraz Ahmad Khan Eamin Chaudary Wajid Mumtaz
Computers & Electrical Engineering , Volume: 116, Article Number: 109178
Impact Factor: 4.3 | Quartile: 2 | Citations: 7
DOI: [10.1016/j.compeleceng.2024.109178](https://doi.org/10.1016/j.compeleceng.2024.109178)

Review of challenges associated with the EEG artifact removal methods2021

Wajid Mumtaz Suleman Rasheed Alina Irfan
Biomedical Signal Processing and Control, Volume 68, Article Number 102741
Impact Factor: 5.076 | Quartile: 2 | Citations: 124
DOI: <https://doi.org/10.1016/j.bspc.2021.102741>

Automatic Segmentation using a Hybrid Dense Network Integrated with an 3D-Atrous Spatial Pyramid Pooling Module for Computed Tomography (CT) Imaging2020

Abdul Qayyum Ittikhar Ahmad Wajid Mumtaz Madini O. Alassafi Rayed Alghamdi Moona Mazher
IEEE Access , Volume 8, Pages 169794-169803
Impact Factor: 3.367 | Quartile: 2 | Citations: 16
DOI: [10.1109/ACCESS.2020.3024277](https://doi.org/10.1109/ACCESS.2020.3024277)

A deep learning framework for automatic diagnosis of unipolar depression2019

Wajid Mumtaz Abdul Qayyum
International Journal of Medical Informatics, Volume: 132, Article Number: UNSP 103983
Impact Factor: 3.025 | Quartile: 2 | Citations: 134
DOI: <https://doi.org/10.1016/j.ijmedinf.2019.103983>

Automatic eye blink artifact removal for EEG based on a sparse coding technique for assessing major mental disorders2019

Raheel Zafar Abdul Qayyum Wajid Mumtaz
Journal of Integrative Neuroscience, Volume 18(3), Pages 217-229
Impact Factor: 1.193 | Quartile: 4 | Citations: 7
DOI: [10.31083/j.jin.2019.03.164](https://doi.org/10.31083/j.jin.2019.03.164)

Investigating Neurofeedback Protocols for Stress Mitigation: A Comparative Analysis of Different Stimulus Contents2019

yasir hafeez yasir hafeez SYED SAAD AZHAR ALI WAJID MUMTAZ MUHAMMAD MOINUDDIN SYED HASAN ADIL UBAID MUHSEN AL-SAGGAF MOHD

<p>AZHAR MOHD YASIN AAMIR SAEED MALIK</p> <p>IEEE Access , Volume 7, Pages 141021-141035</p> <p>Impact Factor: 3.745 Quartile: 1 Citations: 13</p> <p>DOI: 10.1109/ACCESS.2019.2944202</p>	
<p>EEG in classroom: EMD features to detect situational interest of students during learning</p> <p><i>Wajid Mumtaz Areej Babikar Ibrahima Faye Aamir Saeed Malik Hiroki Sato</i></p> <p><i>Multimedia Tools and Applications</i> , Volume 78, Pages 16261–16281</p> <p>Impact Factor: 2.313 Quartile: 2 Citations: 31</p> <p>DOI: https://doi.org/10.1007/s11042-018-7016-z</p>	2019
<p>A comparative study of different EEG reference choices for diagnosing unipolar depression</p> <p><i>Wajid Mumtaz Aamir Saeed Malik Aamir Saeed Malik</i></p> <p><i>Brain Topography</i> , Volume 31, Pages 875–885</p> <p>Impact Factor: 3.104 Quartile: 2 Citations: 15</p> <p>DOI: https://doi.org/10.1007/s10548-018-0651-x</p>	2018
<p>A review on EEG-based methods for screening and diagnosing alcohol use disorder</p> <p><i>Likun Xia Aamir Saeed Malik Wajid Mumtaz Mohd Azhar Mohd Yasin</i></p> <p><i>Cognitive Neurodynamics</i> , Volume 12, Pages 141–156</p> <p>Impact Factor: 3.021 Quartile: 2 Citations: 51</p> <p>DOI: https://doi.org/10.1007/s11571-017-9465-x</p>	2018
<p>A machine learning framework involving EEG-based functional connectivity to diagnose major depressive disorder (MDD)</p> <p><i>Wajid Mumtaz Syed Saad Azhar Ali Mohd Azhar Mohd Yasin Aamir Saeed Malik</i></p> <p><i>Medical & Biological Engineering & Computing</i> , Volume 56, Pages 233–246</p> <p>Impact Factor: 2.039 Quartile: 2 Citations: 152</p> <p>DOI: https://doi.org/10.1007/s11517-017-1685-z</p>	2018
<p>An EEG-based functional connectivity measure for automatic detection of alcohol use disorder</p> <p><i>Naufal B Saad Syed Saad Azhar Ali Wajid Mumtaz Nidal Kamel Aamir Saeed Malik</i></p> <p><i>Artificial Intelligence in Medicine</i> , Volume 84, Pages 79-89</p> <p>Impact Factor: 3.574 Quartile: 1 Citations: 49</p> <p>DOI: https://doi.org/10.1016/j.artmed.2017.11.002</p>	2018
<p>Classification of EEG Signals Based on Pattern Recognition Approach</p> <p><i>Hafeez ullah Amin Ahmad Rauf Subhani Aamir Saeed Malik Hafeez ullah Amin Wajid Mumtaz Ahmad Rauf Subhani Aamir Saeed Malik Mohamad Naufal Mohamad Saad</i></p> <p><i>Frontiers in Computational Neuroscience</i> , Volume 11, Article Number 103</p> <p>Impact Factor: 2.073 Quartile: 2 Citations: 181</p> <p>DOI: https://doi.org/10.3389/fncom.2017.00103</p>	2017
<p>Machine learning framework for the detection of mental stress at multiple levels</p> <p><i>Ahmad Rauf Subhani Naufal B Saad Nidal Kamel Wajid Mumtaz Aamir Saeed Malik</i></p> <p><i>IEEE Access</i> , Volume 5, Pages 13545-13556</p> <p>Impact Factor: 3.557 Quartile: 1 Citations: 212</p> <p>DOI: 10.1109/ACCESS.2017.2723622</p>	2017
<p>An EEG-based machine learning method to screen alcohol use disorder</p> <p><i>Wajid Mumtaz Pham Lam Young Likun Xia Aamir Saeed Malik Rusdi Bin Abd Rashid</i></p> <p><i>Cognitive Neurodynamics</i> , Volume 11, Pages 161–171</p> <p>Impact Factor: 2.00 Quartile: 4 Citations: 64</p> <p>DOI: 10.1007/s11571-016-9416-y</p>	2017
<p>A wavelet-based technique to predict treatment outcome for Major Depressive Disorder</p> <p><i>Wajid Mumtaz Likun Xia Aamir Saeed Malik Mohd Azhar Mohd Yasin Syed Saad Azhar Ali</i></p> <p><i>PLoS ONE</i> , Volume 12(2), Article Number e0171409</p> <p>Impact Factor: 2.766 Quartile: 1 Citations: 190</p> <p>DOI: https://doi.org/10.1371/journal.pone.0171409</p>	2017
<p>Electroencephalogram (EEG)-based computer-aided technique to diagnose major depressive disorder (MDD)</p> <p><i>Wajid Mumtaz Likun Xia Syed Saad Azhar Ali Aamir Saeed Malik Mohd Azhar Mohd Yasinb Muhammad Hussain</i></p> <p><i>Biomedical Signal Processing and Control</i> , Volume 31, Pages 108-115</p>	2017

Impact Factor: 2.783 | **Quartile:** 2 | **Citations:** 176
DOI: <https://doi.org/10.1016/j.bspc.2016.07.006>

Automatic diagnosis of alcohol use disorder using EEG features 2016
Wajid Mumtaz Pham Lam Young Aamir Saeed Malik Rusdi Bin Abd Rashid Likun Xia
Knowledge-Based Systems, Volume 105, Pages 48-59
Impact Factor: 4.529 | **Quartile:** 1 | **Citations:** 52
DOI: <https://doi.org/10.1016/j.knosys.2016.04.026>

Review on EEG and ERP predictive biomarkers for major depressive disorder 2015
Wajid Mumtaz Aamir Saeed Malik Likun Xia Mohd Azhar Mohd Yasin
Biomedical Signal Processing and Control, Volume 22, Pages 85-98
Impact Factor: 1.521 | **Quartile:** 3 | **Citations:** 68
DOI: <https://doi.org/10.1016/j.bspc.2015.07.003>

Conference Proceedings

Non-Invasive EEG-Driven Brain-Computer Interface for Motion Control of Assistive Robotics 2025
Wajid Mumtaz Syeda Eman Fatima Syed Ahsan Rahman Muhammad shayan Nazeer
2025 International Conference on Control, Automation, and Instrumentation, IC2AI 2025, res.country(126,)
Citations: N/A
DOI: [10.1109/IC2AI62984.2025.10932265](https://doi.org/10.1109/IC2AI62984.2025.10932265)

EEG Based Thought-to-Text Translation Via Deep Learning 2023
Sarfraz Ali Wajid Mumtaz Aiman Maqsood
2023 7th International Multi-Topic ICT Conference (IMTIC), res.country(177,)
Citations: N/A
DOI: [10.1109/IMTIC58887.2023.10178595](https://doi.org/10.1109/IMTIC58887.2023.10178595)

Tri-model ensemble with Grid Search optimization for Bipolar Disorder Diagnosis 2022
Wajid Mumtaz Syed Muhammad Zain
2022 International Conference on Frontiers of Information Technology, FIT 2022, res.country(177,)
Citations: N/A
DOI: [10.1109/FIT57066.2022.00015](https://doi.org/10.1109/FIT57066.2022.00015)

Development of a Deep Learning Model for Motor-Imagery Classification 2022
Aiman Maqsood Wajid Mumtaz
2022 IEEE International Conference on Data Science and Information System (ICDSIS), res.country(104,)
Citations: N/A
DOI: [10.1109/ICDSIS55133.2022.9915873](https://doi.org/10.1109/ICDSIS55133.2022.9915873)

Multiclass-Classification of Algae using Dc-GAN and Transfer Learning 2022
Wajid Mumtaz Abdullah Ziaulh Khan Abdul Samad Mumtaz Subrata Bhattacharjee Hee-Cheol Kim
2022 2nd International Conference on Image Processing and Robotics (ICIPRob), res.country(129,)
Citations: N/A
DOI: [10.1109/ICIPRob54042.2022.9798730](https://doi.org/10.1109/ICIPRob54042.2022.9798730)

Classification of Hand-Grasp Movements of Stroke Patients using EEG Data 2021
Wajid Mumtaz Suleman Rasheed
2021 International Conference on Artificial Intelligence (ICAI), res.country(177,)
Citations: N/A
DOI: [10.1109/ICAI52203.2021.9445231](https://doi.org/10.1109/ICAI52203.2021.9445231)

Hybrid Deep Shallow Network for Assessment of Depression Using Electroencephalogram Signals 2020
Abdul Qayyum Imran Razzak Wajid Mumtaz
International Conference on Neural Information Processing ICONIP 2020, res.country(217,)
Citations: N/A
DOI: https://doi.org/10.1007/978-3-030-63836-8_21

A Comparative Analysis of Preprocessing Methods for Single-Trial Event Related Potential Detection 2019
Wajid Mumtaz Lukáš Vařeka Roman Mouřek
28th International Conference on Artificial Neural Networks, res.country(57,)
Citations: N/A
DOI: [10.1007/978-3-030-30487-4_7](https://doi.org/10.1007/978-3-030-30487-4_7)

- A Study to Investigate Different EEG Reference Choices in Diagnosing Major Depressive Disorder** 2015
Wajid Mumtaz Aamir Saeed Malik Syed Saad Azhar Ali Mohd Azhar Mohd Yasin Wajid Mumtaz Aamir Saeed Malik Syed Saad Azhar Ali Mohd Azhar Mohd Yasin
International Conference on Neural Information Processing, res.country(224,)
Citations: N/A
DOI: https://doi.org/10.1007/978-3-319-26561-2_10
- P300 intensities and latencies for major depressive disorder detection** 2015
Wajid Mumtaz Aamir Saeed Malik Syed Saad Azhar Ali Mohd Azhar Mohd Yasin
IEEE International Conference on Signal and Image Processing Applications (ICSIPA), res.country(157,)
Citations: N/A
DOI: 10.1109/ICSIPA.2015.7412250
- Detrended fluctuation analysis for major depressive disorder** 2015
Wajid Mumtaz Aamir Saeed Malik Syed Saad Azhar Ali Mohd Azhar Mohd Yasin Hafeez Ullah Amin
37th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC), res.country(109,)
Citations: N/A
DOI: 10.1109/EMBC.2015.7319311
- Analysis of EEG signals regularity in adults during video game play in 2D and 3D** 2013
Hamizah Khairuddin Aamir Saeed Malik Wajid Mumtaz Nidal Kamel Likun Xia Hamizah Khairuddin Aamir Saeed Malik Wajid Mumtaz Nidal Kamel Likun Xia
35th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC), res.country(113,)
Citations: N/A
DOI: 10.1109/EMBC.2013.6609938
- EEG classification of physiological conditions in 2D/3D environments using neural network** 2013
Wajid Mumtaz Likun Xia Aamir Saeed Malik Mohd Azhar Mohd Yasin Wajid Mumtaz Likun Xia Aamir Saeed Malik Mohd Azhar Mohd Yasin
35th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC), res.country(113,)
Citations: N/A
DOI: 10.1109/EMBC.2013.6610480
- Complexity analysis of EEG data during rest state and visual stimulus** 2012
Wajid Mumtaz Likun Xia Aamir Saeed Mailk Mohd Azhar Mohd Yasin Wajid Mumtaz Likun Xia Aamir Saeed Mailk Mohd Azhar Mohd Yasin
International Conference on Neural Information Processing, res.country(186,)
Citations: N/A
DOI: https://doi.org/10.1007/978-3-642-34475-6_11
- Functional models of neural circuits for pathophysiology of major depressive disorder** 2012
Wajid Mumtaz Likun Xia Aamir Saeed Malik Mohd Azhar Mohd Yasin
4th International Conference on Intelligent and Advanced Systems, res.country(157,)
Citations: N/A
DOI: 10.1109/ICIAS.2012.6306159

Books

- EEG-based Experiment Design for Major Depressive Disorder: Machine Learning and Psychiatric Diagnosis** 2019
Wajid Mumtaz Aamir Saeed Malik
 Academic Press, 1st edition, 254 pages
Citations: 9
DOI: <https://doi.org/10.1016/C2018-0-01657-6>

Book Chapters

- Adaptive Noise Cancellation: A Comparison of Adaptive Filtering Algorithms Aiming Fetal ECG Extraction** 2012
Wajid Mumtaz Ahmad Rauf Subhani
 In: *Book on Recent Advances in Computer Science and Information Engineering*, Pages 637-643
Citations: N/A
DOI: https://doi.org/10.1007/978-3-642-25792-6_97

Editorial Activities

PLOS ONE	2024
Edited Journal Issue / Proceeding / Book	
Impact Factor: 3.752	
PLOS ONE	2024
Edited Journal Issue / Proceeding / Book	
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PLOS ONE	2023
Reviewed Papers for Journals	
Impact Factor: 3.24	
PLOS ONE	2023
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Impact Factor: 3.24	
Biomedical Signal Processing & Control	2023
Reviewed Papers for Journals	
Impact Factor: 5.1	
Biomedical Signal Processing & Control	2023
Reviewed Papers for Journals	

Impact Factor: 5.076	
PLOS ONE Reviewed Papers for Journals Impact Factor: 3.24	2023
Frontiers in Psychiatry Reviewed Papers for Journals Impact Factor: 4.7	2023
Frontiers in Neuroscience Reviewed Papers for Journals Impact Factor: 5.125	2023
Biomedical Signal Processing and Control Reviewed Papers for Journals Impact Factor: 5.1	2023
Scientific Reports Reviewed Papers for Journals Impact Factor: 4.996	2023
PLOS ONE Reviewed Papers for Journals Impact Factor: 3.24	2022
Medical & Biological Eng & Computing (MBEC) Reviewed Papers for Journals Impact Factor: 3.2	2022
PLOS ONE Reviewed Papers for Journals Impact Factor: 3.24	2022
Biomedical Signal Processing & Control Reviewed Papers for Journals Impact Factor: 5.076	2022
Frontiers Reviewed Papers for Journals Impact Factor: 0.842	2022
Informatics for Health and Social Car Reviewed Papers for Journals Impact Factor: 3.082	2022
Scientific Reports Reviewed Papers for Journals Impact Factor: 4.996	2022
PLOS ONE Reviewed Papers for Journals Impact Factor: 3.24	2022
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