Muhammad Naseer Bajwa

Post-Doctoral Research Fellow

School of Electrical Engineering and Computer Science

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About

Dr. Muhammad Naseer Bajwa is working as Post-Doctoral Research Fellow in the School of Electrical Engineering and Computer Science. Dr. Muhammad Naseer Bajwa has a PhD in Deep Learning. Dr. Muhammad Naseer Bajwa has published 11 research articles & conference papers having a citation count of 371, carried out 3 projects and filed 0 intellectual property.

Qualifications

PhD in Deep Learning 2018 - 2022
TU Kaiserslautern , Germany

MS in NA 2012 - 2014
King Fahad University of Petroleum and Minerals , Saudi Arabia

BS in NA 2005 - 2009
COMSATS Institute of Information Technology , Pakistan

Experience

Post-Doctoral Research Fellow 2025- Present
School of Electrical Engineering and Computer Science

Assistant Professor 2024 - 2024
School of Electrical Engineering and Computer Science

Assistant Professor 2022 - 2024
School of Electrical Engineering and Computer Science

Research Assistant 2017 - 2022
DFKI GmbH , Trippstadter Str 122, Kaiserslautern, Germany

Lab Engineer 2009 - 2012
CIIT, Lahore Campus , Defense Road, Off Raiwind Raod, Lahore

Research Projects

National Projects

NeuReader: Eye Tracking Enabled Explainable-AI for Empowering Resource Scarce Neurological Healthcare in Pakistan 2024
Funding Agency: Early Career Researcher Collaborations for Global Development by Engineering and Physical Sciences Research Council (EPSRC), UK
Amount: PKR 41,748,000.00
Status: Approved_inprocess

SLUM-i: A Remote Sensing Based Intelligent Framework for Detection and Predictive Growth Analysis of Slums for Sustainable Socio-Economic Development of Pakistan 2023
Funding Agency: DAAD
Amount: PKR 14,423,146.00
Status: Approved_inprocess

AI-FORCAST: AI-based Forest Carbon Stock Assessment for Climate Change Mitigation 2023
Funding Agency: DAAD German Academic Exchange Service
Amount: PKR 12,106,119.00
Status: Approved_inprocess

International Projects

Research Articles

ExAID: A multimodal explanation framework for computer-aided diagnosis of skin lesions 2022

Adriano Lucieri Muhammad Naseer Bajwa Stephan Alexander Braun Muhammad Imran Malik Andreas Dengel Sheraz Ahmed

Computer Methods and Programs in Biomedicine, Volume 215, Article Number 106620

Impact Factor: 6.100 | **Quartile:** 1 | **Citations:** 57

DOI: https://doi.org/10.1016/j.cmpb.2022.106620

Confident Classification Using a Hybrid Between Deterministic and Probabilistic Convolutional Neural Networks 2020

Muhammad Naseer Bajwa Suleman Khurram Mohsin Munir Shoaib Ahmed Siddiqui Muhammad Imran Malik Andreas Dengel Sheraz Ahmed

IEEE Access , Volume: 8, Pages 115476-115485

Impact Factor: 3.367 | **Quartile:** 2 | **Citations:** 6

DOI: 10.1109/ACCESS.2020.3004409

Computer-aided diagnosis of skin diseases using deep neural networks 2020

Muhammad Naseer Bajwa Kaoru Muta Muhammad Imran Malik Shoaib Ahmed Siddiqui Stephan Alexander Braun Bernhard Homey Andreas Dengel Sheraz Ahmed

Applied Sciences , Volume 10(7), Article Number 2488

Impact Factor: 2.679 | **Quartile:** 2 | **Citations:** 121

DOI: https://doi.org/10.3390/app10072488

Two-stage framework for optic disc localization and glaucoma classification in retinal fundus images using deep learning 2019

Muhammad Naseer Bajwa Muhammad Imran Malik Shoaib Ahmed Siddiqui Andreas Dengel Faisal Shafait Wolfgang Neumeier sheraz Ahmed

BMC Medical Informatics and Decision Making, Volume 19, Article Number 136

Impact Factor: 2.317 | **Quartile:** 3 | **Citations:** 165

DOI: 10.1186/s12911-019-0842-8

AVL and Monitoring for Massive Traffic Control System over DDS 2015

Basem Almadani Shehryar Khan Muhammad Naseer Bajwa Tarek R. Sheltami Elhadi Shakshuki

Mobile Information Systems, Volume 2015, Article ID 187548, 9 pages

Impact Factor: 1.462 | **Quartile:** 2 | **Citations:** 8

DOI: http://dx.doi.org/10.1155/2015/187548

Performance evaluation of DDS-based middleware over wireless channel for reconfigurable manufacturing systems 2015

Basem Almadani Muhammad Naseer Bajwa Shuang-Hua Yang Abdul-Wahid A. Saif

International Journal of Distributed Sensor Networks, Volume 2015, Article ID 863123, 11 pages

Impact Factor: 0.906 | **Quartile:** 3 | **Citations:** 14

DOI: http://dx.doi.org/10.1155/2015/863123

Conference Proceedings

Explaining AI-Based Decision Support Systems Using Concept Localization Maps 2020

Adriano Lucieri Muhammad Naseer Bajwa Andreas Dengel Sheraz Ahmed

International Conference on Neural Information Processing, res.country(217,)

Citations: N/A

DOI: https://doi.org/10.1007/978-3-030-63820-7_21

On Interpretability of Deep Learning based Skin Lesion Classifiers using Concept Activation Vectors 2020

Adriano Lucieri Muhammad Naseer Bajwa Stephan Alexander Braun Muhammad Imran Malik Andreas Dengel Sheraz Ahmed

International Joint Conference on Neural Networks, res.country(231,)

Citations: N/A

DOI: 10.1109/IJCNN48605.2020.9206946

G1020: A Benchmark Retinal Fundus Image Dataset for Computer-Aided Glaucoma Detection 2020

Muhammad Naseer Bajwa Gur Amrit Pal Singh Wolfgang Neumeier Muhammad Imran Malik Andreas Dengel Sheraz Ahmed

Proceedings of the International Joint Conference on Neural Networks, res.country(231,)

Citations: N/A

DOI: 10.1109/IJCNN48605.2020.9207664

Combining Fine- and Coarse-Grained Classifiers for Diabetic Retinopathy Detection 2019

Muhammad Naseer Bajwa Yoshinobu Taniguchi Muhammad Imran Malik Wolfgang Neumeier Andreas Dengel Sheraz Ahmed

Communications in Computer and Information Science, res.country(231,)

Citations: N/A

DOI: 10.1007/978-3-030-39343-4_21

Book Chapters

Erklärbare KI in der medizinischen Diagnose – Erfolge und Herausforderungen 2022

Adriano Lucieri Muhammad Naseer Bajwa Andreas Dengel Sheraz Ahmed

In: *Book on Künstliche Intelligenz im Gesundheitswesen*, 1st Edition, Chapter 35, Pages 727-754

Citations: N/A

DOI: 10.1007/978-3-658-33597-7_35

Editorial Activities

N/A 2025

Reviewed Papers for Journals

Impact Factor: N/A

N/A 2025

Reviewed Papers for Journals

Impact Factor: Not applicable

N/A 2024

Reviewed Papers for Journals

Impact Factor: Not applicable

N/A 2024

Reviewed Papers for Journals

Impact Factor: Not Applicable

N/A 2024

Reviewed Papers for Journals

Impact Factor: Not Applicable

N/A 2024

Reviewed Papers for Journals

Impact Factor: N/A

Trainings

Advanced AI Bootcamp on Deep Neural Networks (DNN) 2023

Partner: Ashar Aziz Foundation

Duration: 11-Aug-2023 to 17-Nov-2023