

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 TU Kaiserslautern , Germany	2018 - 2022
MS in NA King Fahad University of Petroleum and Minerals , Saudi Arabia	2012 - 2014
BS in NA COMSATS Institute of Information Technology , Pakistan	2005 - 2009

Experience

Post-Doctoral Research Fellow School of Electrical Engineering and Computer Science	2025- Present
Assistant Professor School of Electrical Engineering and Computer Science	2024 - 2024
Assistant Professor School of Electrical Engineering and Computer Science	2022 - 2024
Research Assistant DFKI GmbH , Trippstadter Str 122, Kaiserslautern, Germany	2017 - 2022
Lab Engineer CIIT, Lahore Campus , Defense Road, Off Raiwind Raod, Lahore	2009 - 2012

Research Projects

National Projects	
NeuReader: Eye Tracking Enabled Explainable-AI for Empowering Resource Scarce Neurological Healthcare in Pakistan 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	2024
SLUM-i: A Remote Sensing Based Intelligent Framework for Detection and Predictive Growth Analysis of Slums for Sustainable Socio-Economic Development of Pakistan Funding Agency: DAAD Amount: PKR 14,423,146.00 Status: Approved_inprocess	2023
AI-FORCAST: AI-based Forest Carbon Stock Assessment for Climate Change Mitigation Funding Agency: DAAD German Academic Exchange Service Amount: PKR 12,106,119.00 Status: Approved_inprocess	2023

International Projects

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](https://doi.org/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](https://doi.org/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