

Asad Mansoor Khan

Assistant Professor

College of Electrical & Mechanical Engineering

Email: asad.mansoor@ceme.nust.edu.pk

Contact:



About

Dr. Asad Mansoor Khan is working as Assistant Professor in the College of Electrical & Mechanical Engineering. Dr. Asad Mansoor Khan has a PhD in Deep Learning. Dr. Asad Mansoor Khan has published 11 research articles & conference papers having a citation count of 45, carried out 0 projects and filed 5 intellectual property.

Qualifications

PhD in Deep Learning NUST, Islamabad , Pakistan	2019 - 2023
MS in Machine Learning NUST, Islamabad , Pakistan	2017 - 2019
BE in Computer Engineering NUST, Islamabad , Pakistan	2012 - 2016

Experience

Assistant Professor College of Electrical & Mechanical Engineering	2024- Present
Lab Engineer College of Electrical & Mechanical Engineering	2017 - 2024
Lab Engineer College of Electrical & Mechanical Engineering	2016 - 2017
Research Engineer RISETech , RISETech Pvt. Ltd., Office 1C4-A-Building 1, National Science & Technology Park, Khyber Road, NUST H-12, Islamabad	2017 - 2023
Lab Engineer CoEME, NUST , Peshawar Road, Rawalpindi	2016 - 2017

Radiology report generation from a singular perspective using transformers with Knowledge Distillation <i>Asad Mansoor Khan Mashood mohammad Mohsan Muhammad Usman Akram Taimur Hassan Sajid Gul Khawaja Adil Qayyum</i> <i>Biomedical Signal Processing and Control</i> , Volume:111, Article Number 108340 Impact Factor: 4.900 Quartile: 2 DOI: https://doi.org/10.1016/j.bspc.2025.108340	2026
TransNetV: An optimized hybrid model for enhanced colorectal cancer image classification <i>Mohsan Tanveer Muhammad Usman Akram Asad Mansoor Khan</i> <i>Biomedical Signal Processing and Control</i> , Volume 96, Part A , Article Number 106579 Impact Factor: 4.900 Quartile: 1 Citations: 5 DOI: https://doi.org/10.1016/j.bspc.2024.106579	2024
Multi-head deep learning framework for pulmonary disease detection and severity scoring with modified progressive learning <i>Asad Mansoor Khan Muhammad Usm Sajid Nazir Taimur Hassan Sajid Gul Khawaja Tatheer Fatima</i> <i>Biomedical Signal Processing and Control</i> , Volume 85, Article Number 104855 Impact Factor: 5.076 Quartile: 2 Citations: 4 DOI: https://doi.org/10.1016/j.bspc.2023.104855	2023
Automated grading of chest x-ray images for viral pneumonia with convolutional neural networks ensemble and region of interest localization <i>Asad Mansoor Khan Muhammad Usman Akram Sajid Nazir</i> <i>PLoS One</i> , Volume 18, Issue 1, Article Number e0280352 Impact Factor: 3.752 Quartile: 2 Citations: 10 DOI: https://doi.org/10.1371/ journal.pone.0280352	2023
Continual Learning Objective for Analyzing Complex Knowledge Representations <i>Asad Mansoor Khan Taimur Hassan Muhammad Usman Akram Norah Saleh Alghamdi Naoufel Werghi</i> <i>Sensors</i> , Volume 22(4), Article Number 1667 Impact Factor: 3.576 Quartile: 1 Citations: 22 DOI: https://doi.org/10.3390/s22041667	2022
Multiprocessor architecture for real-time applications using mean shift clustering <i>Amna Tehreem Sajid Gul Khawaja Asad Mansoor Khan Muhammad Usman Akram Shoab A. Khan</i> <i>Journal of Real-Time Image Processing</i> , Volume 16, Pages: 2233-2246 Impact Factor: 1.968 Quartile: 3 Citations: 4 DOI: 10.1007/s11554-017-0733-0	2019

Conference Proceedings

A Cross-Domain Threat Screening and Localization Framework Using Vision Transformers and Self-supervised Learning	2024
<i>Ammara Nasim Muhammad Usman Akram Asad Mansoor Khan Muhammad Belal Afsar Khan Taimur Hassan</i> <i>14th International Conference on Pattern Recognition Systems (ICPRS), res.country(231,)</i>	
Citations: N/A	
DOI: 10.1109/ICPRS62101.2024.10677838	
A Machine Learning Technique to Classify LSST Observed Astronomical Objects Based on Photometric Data	2019
<i>Asad Mansoor Khan Muhammad Usman Akram Sajid Gul Khawaja Ali Saeed Khan</i> <i>2019 6th Swiss Conference on Data Science (SDS), res.country(43,)</i>	
Citations: N/A	
DOI: 10.1109/SDS.2019.000-9	
Person Detection by Fusion of Visible and Thermal Images Using Convolutional Neural Network	2019
<i>Bushra Khalid Asad Mansoor Khan M. Usman Akram Sherin Batool</i> <i>2019 2nd International Conference on Communication, Computing and Digital systems (C-CODE), res.country(177,)</i>	
Citations: N/A	
DOI: 10.1109/C-CODE.2019.8680991	
Hybrid RID Network for Efficient Diagnosis of Tuberculosis from Chest X-rays	2018
<i>Rabia Rashid Sajid Gul Khawaja Muhammad Usman Akram Asad Mansoor Khan</i> <i>The 9th Cairo International Biomedical Engineering Conference (CIBEC 2018) , res.country(65,)</i>	
Citations: N/A	
DOI: 10.1109/CIBEC.2018.8641816	
A Novel Architecture for K-means Clustering Algorithm	2016
<i>Sajid Gul Khawaja Asad Mansoor Khan M. Usman Akram Shoab A. Khan</i> <i>Third International Afro-European Conference for Industrial Advancement — AECIA 2016, res.country(136,)</i>	
Citations: N/A	
DOI: 10.1007/978-3-319-60834-1_31	

Intellectual Property

Copyrights

Graphical User Interface of EKKO-Wave therapeutic Device	2020
Status: Licensed Filed	
Mobile application of EKKO-Wave therapeutic Device	2020
Status: Licensed Filed	
Web application of EKKO-Wave therapeutic Device	2020
Status: Licensed Filed	
Epilepsy Care mobile application	2020
Status: Licensed Filed	
Desktop application for HESS screening system	2020
Status: Filed	

Patents

Industrial Designs

Trademarks