Sagheer Khan

Assistant Professor

College of Electrical & Mechanical Engineering

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About

Dr. Sagheer Khan is working as Assistant Professor in the College of Electrical & Mechanical Engineering. Dr. Sagheer Khan has a PhD in AI signal processing Digital Twin. Dr. Sagheer Khan has published 6 research articles & conference papers having a citation count of 146, carried out 0 projects and filed 0 intellectual property.

Qualifications

PhD in AI signal processing Digital Twin 2021 - 2024
University of Edinburgh , United Kingdom

Master in Electrical Communication and Signal Processing 2016 - 2019
NUST, Islamabad , Pakistan

BSc in Electrical Electronics 2012 - 2016
UET Taxila , Pakistan

F.Sc in Preengineering 2010 - 2012
FBISE, Islamabad , Pakistan

Matric (SSC) in Preengineering 2008 - 2010
FBISE, Islamabad , Pakistan

Experience

Assistant Professor 2025- Present
College of Electrical & Mechanical Engineering

Assistant Professor 2024 - 2024
College of Electrical & Mechanical Engineering

Graduate Teaching Assistant 2021 - 2024
University of Edinburgh , Grant Institute Kings Buildings, W Mains Rd, Edinburgh EH9 3JW, UK

Research Articles

RF-Based Sensing and AI Decision Support for Stroke Patient Monitoring: A Digital Twin Approach 2025

Sagheer Khan Usman Anwar Aftab Khan Tughrul Arslan

IEEE Access , Volume:13, Page(s):74047-74061

Impact Factor: 3.4 | **Quartile:** 2

DOI: 10.1109/ACCESS.2025.3564887

Radio Frequency-Enabled Cerebral Blood Flow Monitoring and Classification Using Data Augmentation and Machine Learning Techniques 2024

Usman Anwar Sagheer Khan Tughrul Arslan Tom C. Russ Peter Lomax

IEEE Sensors Journal, Volume 24, Issue 19, Pages 31040-31053

Impact Factor: 4.300 | **Quartile:** 1 | **Citations:** 5

DOI: 10.1109/JSEN.2024.3444192

Novel statistical time series data augmentation and machine learning based classification of unobtrusive respiration data for respiration Digital Twin model 2024

Sagheer Khan Aaesha Alzaabi Tharmalingam Ratnarajah Tughrul Arslan

Computers in Biology and Medicine, Volume 168, Article Number 107825

Impact Factor: 7.000 | **Quartile:** 1 | **Citations:** 21

DOI: 10.1016/j.compbiomed.2023.107825

A Novel Digital Twin (DT) Model Based on WiFi CSI, Signal Processing and Machine Learning for Patient Respiration Monitoring and Decision-Support 2023

Sagheer Khan Aaesha Alzaabi Zafar Iqbal Tharmalingam Ratnarajah Tughrul Arslan

IEEE Access , Volume 11, Pages 103554-103568

Impact Factor: 3.400 | **Quartile:** 2 | **Citations:** 25

DOI: 10.1109/ACCESS.2023.3316508

Evaluation of Unobtrusive Microwave Sensors in Healthcare 4.0—Toward the Creation of Digital-Twin Model 2022

Sagheer Khan Imran M. Saied Tharmalingam Ratnarajah Tughrul Arslan

MDPI Sensors , Volume 22, Issue 21, Article Number 8519

Impact Factor: 3.900 | **Quartile:** 2 | **Citations:** 11

DOI: 10.3390/s22218519

Digital Twin Perspective of Fourth Industrial and Healthcare Revolution 2022

Sagheer Khan Tughrul Arslan Tharmalingam Ratnarajah

IEEE Access , Volume 10, Pages 25732-25754

Impact Factor: 3.900 | **Quartile:** 2 | **Citations:** 84

DOI: 10.1109/access.2022.3156062