Hafsa Iqbal

Assistant Professor

School of Electrical Engineering and Computer Science

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Contact:

About

Dr. Hafsa Iqbal is working as Assistant Professor in the School of Electrical Engineering and Computer Science. Dr. Hafsa Iqbal has a PhD in Electrical Electronics Engineering and Automation. Dr. Hafsa Iqbal has published 10 research articles & conference papers, carried out 2 projects and filed 0 intellectual property.

Qualifications

PhD in Electrical Electronics Engineering and Automation 2018 - 2022
Universidad Carlos III de Madrid , Spain

MS in Electrical Engineering 2018 - 2018
NUST, Islamabad , Pakistan

BSc in Electrical Electronics 2012 - 2016
UET Taxila , Pakistan

Experience

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

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

Research Projects

National Projects

An Efficient Model for Autonomous Vehicles to Detect Anomalous Scenes Based on Intention Estimation 2023
Funding Agency: NFRP
Amount: PKR 1,000,000.00
Status: Completed

An Efficient Model for Autonomous Vehicles to Detect Anomalous Scenes Based on Intention Estimation 2023
Funding Agency: NUST
Amount: PKR 1,000,000.00
Status: Completed

International Projects

Conference Proceedings

Physical Layer Security in Intelligent Reflecting Surface-Enabled Small NOMA IoT Network 2024

Haleema Sadia Hafsa Iqbal Sana Qadir

11th International Conference on Wireless Networks and Mobile Communications, res.country(260,)

Citations: N/A

DOI: 979-8-3503-7786-6/24/$31.00©2024 IEEE

Multiuser Capacity Enhancement in B5G Networks Using Hybrid CDMA-NOMA Scheme 2024

Sabahat Sherien Haleema Sadia Hafsa Iqbal

International Conference on Green Energy, Computing and Sustainable Technology, res.country(157,)

Citations: N/A

DOI: Nil

MINDTwin AI: Multiphysics Informed Digital-Twin for Fault Localization in Induction Motor using A 2023

Amina Bashir Muhammad Ahmed Mohsin Muhammad Jazib Dr. Hafsa Iqbal

The 8th IEEE International Conference “Big Data, Knowledge and Control Systems Engineering” – BdKCSE'2023, res.country(22,)

Citations: N/A

DOI: Nil

MIMO-NOMA with OSTBC for B5G Cellular Networks with Enhanced Quality of Service 2023

Hafsa Iqbal Haleema Sadia Ridha Alaa Ahmed

The 10th International Conference on Wireless Networks and Mobile Communications, res.country(224,)

Citations: N/A

DOI: Nil

A Data-Driven Approach for the Localization of Interacting Agents via a Multi-Modal Dynamic Bayesian Network Framework 2022

Abrham Shiferaw Alemaw Giulia Slavic Hafsa Iqbal Lucio Marcenaro David Martin Gomez Carlo Regazzoni

18th IEEE International Conference on Advanced Video and Signal Based Surveillance (AVSS), res.country(68,)

Citations: N/A

DOI: 10.1109/AVSS56176.2022.9959648

Detection of Abnormal Motion by Estimating Scene Flows of Point Clouds for Autonomous Driving 2021

Hafsa Iqbal Abdulla Al-Kaff Pablo Marin Lucio Marcenaro David Martin Gomez Carlo Regazzoni

IEEE International Intelligent Transportation Systems Conference (ITSC), res.country(233,)

Citations: N/A

DOI: 10.1109/ITSC48978.2021.9565105

Optimization of Probabilistic Switching Models Based on a Two-Step Clustering Approach 2020

Hafsa Iqbal Damian Campo Giulia Slavic Lucio Marcenaro David Martin Gomez Carlo Regazzoni

34th IEEE Workshop on Signal Processing Systems (SiPS), res.country(183,)

Citations: N/A

DOI: 10.1109/SiPS50750.2020.9195244

Incremental learning of abnormalities in autonomous systems 2019

Hassan Zaal Hafsa Iqbal Damian Campo Lucio Marcenaro Carlo Regazzoni

16th IEEE International Conference on Advanced Video and Signal Based Surveillance (AVSS), res.country(227,)

Citations: N/A

DOI: 10.1109/AVSS.2019.8909827

Clustering optimization for abnormality detection in semi-autonomous systems 2019

Hafsa Iqbal Damian Campo Mohamad Baydoun Lucio Marcenaro David Martin Gomez Carlo Regazzoni

International workshop on multimodal understanding and learning for embodied applications, res.country(75,)

Citations: N/A

DOI: 10.1145/3347450.3357657

Range Estimation in Radar using Maximum Likelihood Estimator 2017

Haleema Sadia Sabahat Sherien Hafsa Iqbal Muhammad Zeeshan Aimal Khan Saad Rehman

20th International Conference of Computer and Information Technology (ICCIT), res.country(19,)

Citations: N/A

DOI: 10.1109/ICCITECHN.2017.8281856

Editorial Activities

IEEE transactions on circuits and systems for video technology 2023

Reviewed Papers for Journals

Impact Factor: 8.43

2023

Edited Journal Issue / Proceeding / Book

Impact Factor: 0.922