Sajjad Hussain

Assistant Professor

School of Electrical Engineering and Computer Science

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About

Dr. Sajjad Hussain is working as Assistant Professor in the School of Electrical Engineering and Computer Science. Dr. Sajjad Hussain has a PhD in Electronic Engineering. Dr. Sajjad Hussain has published 10 research articles & conference papers having a citation count of 110, carried out 4 projects and filed 0 intellectual property.

Qualifications

PhD in Electronic Engineering 2013 - 2017
Dublin City University , Ireland

MSc in Telecom Engineering 2007 - 2008
University of Liverpool , United Kingdom

B.Sc (Hon) in Electrical Engineering 2003 - 2006
UET Taxila , Pakistan

Experience

Assistant Professor 2018- Present
School of Electrical Engineering and Computer Science

Assistant Professor 2018 - 2018
School of Electrical Engineering and Computer Science

Assistant Professor 2018 - 2018
University of Engineering and Technology Taxila , Taxila

Technical and Test Engineer 2009 - 2013
Cobra UK Limited , Manchester, UK

Research Projects

National Projects

Development of Machine Learning based Radio Channel Models for Challenging Outdoor Scenarios in 5G and Beyond Millimeter-wave Radio Networks
Funding Agency: Pakistan Science Foundation
Amount: PKR 2,029,000.00
Status: Approved_inprocess

Artificial Intelligence and Internet of Things based System for Crop Monitoring 2020
Funding Agency: IGNITE
Amount: PKR 47,048.00
Status: Completed

A Brain-Computer Interface (BCI) enabled Motion Intent Recognition System for Assistive Robotics 2022
Funding Agency: NUST
Amount: PKR 904,937.00
Status: Completed

A Thought-to-Text (T2T) system for physically disabled persons 2021
Funding Agency: HEC
Amount: PKR 2,610,000.00
Status: Completed

International Projects

Research Articles

Geometrical Features based mmWave UAV Path Loss Prediction using Machine Learning for 5G and Beyond 2024

Sajjad Hussain Adnan Ahmad Cheema Berk Canberk Trung Q. Duong Syed Faraz Naeem Bacha

IEEE Open Journal of the Communications Society, Volume 5, Pages 5667-5679

Impact Factor: 6.300 | **Quartile:** 1 | **Citations:** 3

DOI: 10.1109/OJCOMS.2024.3450089

Arithmetic N-gram: an efficient data compression technique 2024

Ali Hassan Sadaf Javed Sajjad Hussain Rizwan Ahmad Shams Uddin Qazi

Discover Computing , Volume 27, Issue 1, Article Number 1

Impact Factor: 0 | **Citations:** 4

DOI: 10.1007/s10791-024-09431-y

An Efficient Ray Validation Technique for Ray-Tracing in Urban Microcellular Environments 2023

Sajjad Hussain Conor Brennan

IEEE Antennas and Wireless Propagation Letters , Volume 22, Issue 6, Pages 1401-1405

Impact Factor: 3.825 | **Quartile:** 2 | **Citations:** 6

DOI: 10.1109/LAWP.2023.3243678

Machine Learning Approaches for Radio Propagation Modeling in Urban Vehicular Channels 2022

Khalil Ahmad Sajjad Hussain

IEEE Access , Volume 10, Pages 113690-113698

Impact Factor: 3.476 | **Quartile:** 2 | **Citations:** 14

DOI: 10.1109/ACCESS.2022.3218622

A Visibility Matching Technique for Efficient Millimeter-wave Vehicular Channel Modeling 2022

Sajjad Hussain Conor Brennan

IEEE Transactions on Antennas and Propagation , Volume: 70, Issue: 10, Page(s): 9977-9982

Impact Factor: 4.824 | **Quartile:** 1 | **Citations:** 6

DOI: 10.1109/TAP.2022.3178130

Investigation of Corner Diffraction for Different Materials in Vehicular Channels at Urban Street Intersection 2021

Sajjad Hussain

Physical Communication , Volume 48, Article Number 101445

Impact Factor: 2.379 | **Quartile:** 3

DOI: 10.1016/j.phycom.2021.101445

Performance Analysis of Multi-User Downlink PD-NOMA Under SUI Fading Channel Models 2021

Asif Mahmood Sagheer Khan Sajjad Hussain Muhammad Zeeshan

IEEE Access , Volume 9, Pages 52851-52859

Impact Factor: 3.476 | **Quartile:** 2 | **Citations:** 20

DOI: 10.1109/ACCESS.2021.3070147

Efficient Pre-processed Ray-tracing for 5G Mobile Transmitter Scenarios in Urban Microcellular Environments 2019

Conor Brennan Sajjad Hussain

IEEE Transactions on Antennas and Propagation , Vol. 67, Issue 5, 3323-3333

Impact Factor: 4.371 | **Quartile:** 1 | **Citations:** 39

DOI: 10.1109/TAP.2019.2896706

An Efficient Ray Tracing Method for Propagation Prediction along a Mobile Route in Urban Environments 2017

Sajjad Hussain Conor Brennan

Radio Science , Volume 52, Issue 7, Pages 862-873

Impact Factor: 1.418 | **Quartile:** 3 | **Citations:** 18

DOI: 10.1002/2017RS006275

Conference Proceedings

A Dynamic Visibility Algorithm for Ray Tracing in Outdoor Environments with Moving Transmitters and Scatterers 2020

Sajjad Hussain Conor Brennan Sajjad Hussain Conor Brennan Sajjad Hussain Conor Brennan

14th European Conference on Antennas and Propagation (EuCAP), res.country(59,)

Citations: N/A

DOI: 10.23919/EuCAP48036.2020.9135075

Editorial Activities

Transactions on Antennas and Propagation 2023

Reviewed Papers for Journals

Impact Factor: 5.7

Transactions on Antennas and Propagation 2022

Reviewed Papers for Journals

Impact Factor: 5.7

2021

Reviewed Papers for Journals

Impact Factor: 4.388

2021

Reviewed Papers for Journals

Impact Factor: 4.388

2021

Reviewed Papers for Journals

Impact Factor: 5.978

2020

Reviewed Papers for Journals

Impact Factor: 1.972

2019

Reviewed Papers for Journals

2019

Reviewed Papers for Journals

2019

Reviewed Papers for Journals

2019

Reviewed Papers for Journals

2019

Reviewed Papers for Journals

Impact Factor: -

2019

Reviewed Papers for Journals

Impact Factor: 4.098