



Biography

Md. Kamrul Hasan Assistant Professor Research AreaPersonal website at Google Site Watch my research outcomes at YouTube Find me at Google Scholar Artificial Intelligence Medical Image and Signal Analysis

Education

A warm welcome to Md. Kamrul Hasan's website! Mr. Hasan was born in Tangail, Bangladesh, in 1992. He received the B.Sc. engineering degree in Electrical and Electronic Engineering (EEE) in 2014 from the Khulna University of Engineering & Technology (KUET), scoring summa-cum-laude CGPA of 3.93 (Out of 4.00) and ranked 1st out of 115 students in the class. In his senior year (fourth year), Mr. Hasan spent most of the time conducting research and attending several technical seminars and conferences. In 2017, he completed the M.Sc. engineering degree in EEE from KUET, scoring summa-cum-laude CGPA of 4.00 (Out of 4.00). Again, Mr. Hasan achieved another M.Sc. degree in Medical Imaging and Applications (MAIA) from France (the University of Burgundy), Italy (the University of Cassino and Southern Lazio), and Spain (the University of Girona) as an Erasmus scholar in 2019.

Master of Science in Electrical and Electronic Engineering

Khulna University of Engineering & Technology (KUET), Bangladesh (2015-2017)

Thesis Title: Effective Electrodes Position and Features Selection for EEG Based Epilepsy Detection Master of Science in Medical Imaging and Applications

University of Burgundy (France), University of Cassino and Southern Lazio (Italy), and University of Girona (Spain), France, Italy, and Spain(2017-2019)

Thesis Title: <u>Detection, Segmentation, and 3D Pose Estimation of Surgical Tools Using Convolutional Neural Networks and</u> <u>Algebraic Geometry</u>

https://www.sciencedirect.com/science/article/abs/pii/S1361841521000402 Bachelor of Science

Khulna University of Engineering & Technology (KUET), Khulna-9203, Bangladesh (2009-2014)

Service Records

- Assistant Professor (Part-time) Department/Section: Electronics and Communication Engineering (ECE) Khulna University (KU) From 01-01-1970 to 01-01-1970
- Assistant Professor (Part-time) Department/Section: Electrical and Electronic Engineering (EEE) North Western University (NWU) From 01-01-1970 to 01-01-1970
- Assistant Professor Department/Section: Electrical and Electronic Engineering (EEE) Khulna University of Engineering & Technology (KUET) From 01-01-1970 to 01-01-1970
 Lecturer
- Lecturer
 Department/Section: Electrical and Electronic Engineering (EEE)
 Khulna University of Engineering & Technology (KUET) From 01-01-1970 to 01-01-1970
 Lecturer
 Department/Section: Electrical and Electronic Engineering (EEE)
- Department/Section: Electrical and Electronic Engineering (EEE) Daffodil International University (DIU) From 01-01-1970 to 01-01-1970

Research Interest

Personal website at Google Site

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Artificial Intelligence

Deep Learning Machine Learning Convolutional Neural Networks Transfer Learning

Medical Image and Signal Analysis

Medical Image Classification/ Recognition Medical Image Registration and Applications Medical Image Segmentation and Applications Computer Aided Surgery and Medical Robotics Computer Aided Diagnosis

Publication

Books

Journals

1. Hasan,M. K. , Calvet,L. , Rabbani,N. and Bartoli,A. (2021) , " Detection, segmentation, and 3D pose estimation of surgical tools using convolutional neural networks and algebraic geometry," *Medical Image Analysis*

Conference