

## Md. Kamrul Hasan **Electrical Engineer**



07 March 1992



13, rue de hotel de ville, apartment 111, 63110 Beaumont, Clermont-Ferrand, France.



+33 6 22 62 98 58



www.kuet.ac.bd/eee/kamrul/



kamruleeekuet@gmail.com

## About me –

Hi!! Let me wish you a warm welcome to read my Curriculum Vitae! I am an Erasmus Scholar on Medical Imaging and Applications [2017-2019]. My dream is to be an active researcher on Medical Imaging and Deep learning.

# Skills ——

Python

**MATLAB** 

R

C and C++

Java

Ubuntu and Linux

Windows

Latex

Team Work

Social Activity

[The skill scale is from 0 (Fundamental Awareness) to 6 (Expert)]

#### Research Interests

Medical Imaging, Deep learning, DCNN and Transfer Learning for Medical Images, 3D Reconstruction of Medical Images, and Bio-mathematics.

#### Education

| Since 2017 | M.Sc. in Medical Imaging<br>Medical Image Analysis and                          | UdG (SPAIN), UNICAS (ITAL'<br>Applications (MAIA) | Y) and UB (FRANCE) |
|------------|---|---|--------------------|
| 2015-2017  | M.Sc. in Electrical and Electronic Engineering<br>Majoring in Signal Processing |   | KUET, Bangladesh   |
| 2009-2014  | B.Sc. in Electrical and Electr<br>Majoring in Electrical Engine                 | 5 5   | KUET, Bangladesh   |

#### Awards and Scholarships

| 2018<br>2017-2019 | University Gold Medalist for being Topper in B.Sc. Education. Erasmus Mundus Scholarship.                                     |
|-------------------|---|
|                   | Dean's award for excellency in B.Sc. Education (4 times). Vocational Scholarship for excellency in B.Sc. Education (4 times). |

## Projects and Researches

University of Girona (UdG), Spain. Coordinator: Dr. Arnau Oliver.

- 1. Non rigid 3D Lung CT registration. Supervisor: Dr. Robert Marti and Dr. Rafael Garcia Campos, UdG, Spain.
- 2. Skin Lesion Classifications Using Transfer Learning of DCNN. Supervisor: Dr. Arnau Oliver and Dr. Xavier Llado, UdG, Spain.
- 3. Automatic Hand Segmentation Using Active Shape Model (ASM). Supervisor: Dr. Arnau Oliver and Dr. Xavier Llado, UdG, Spain.
- 4. Intensity Based MRI Image Registration. Supervisor: Dr. Robert Marti and Dr. Rafael Garcia Campos, UdG, Spain.
- 5. Feature Based Image Registration Using RANSAC for Outlier Rejection. Supervisor: Dr. Robert Marti and Dr. Rafael Garcia Campos, UdG, Spain.
- 6. Atlas+Expectation Maximization (EM) Based Brain Tissue (CSF, GM and WM) Segmentation.

Supervisor: Dr. Robert Marti and Dr. Xavier Llado, UdG, Spain.

7. Brain Tissue (CSF, GM and WM) Segmentation Using Transfer Learning (Neu-

Supervisor: Dr. Robert Marti and Dr. Xavier Llado, UdG, Spain.

8. Brain Tissue (CSF, GM and WM) Segmentation Using Expectation Maximization (EM) and Gaussian Mixture Model (GMM).

Supervisor: Dr. Robert Marti and Dr. Xavier Llado, UdG, Spain.

UNICAS, Italy. Coordinator: Dr. Francesco Tortorella.

- 1. Automatic Mass Detection in Breast Using Deep Convolutional Neural Network and SVM Classifier.
  - Supervisor: Prof. Dr. Francesco Tortorella, UNICAS, Cassino, Italy.
- 2. Automatic Mass Classification in Breast Using Transfer Learning of DCNN. Supervisor: Prof. Dr. Mario Molinara, UNICAS, Cassino, Italy.
- 3. Automatic Skin Lesion Segmentation Using Image Analysis. Supervisor: Dr. Alessandro Bria, UNICAS, Cassino, Italy.
- 4. Inverse Kinematic Controller to Emulate a Screwing Movement. Supervisor: Prof. Dr. Gianluca Antonelli, UNICAS, Cassino, Italy.
- 5. Automatic Skin Lesion Segmentation Using Transfer Learning Approaches of DCNN (U-Net, FCN8s, and FCN32s).

University of Burgundy (UB), France. Coordinator: Dr. Desire Sidibe.

- 1. Face Recognition Using Principal Component Analysis. Supervisor: Prof. Dr. Desire Sidibe, University of Burgundy (UB), France.
- 2. Quantification of Trabeculae Inside the Heart from MRI Using Fractal Analysis. Supervisor: Prof. Dr. Alain Lalande, University of Burgundy (UB), France.
- 3. Implementation of Content Aware Image Resizing. Supervisor: Prof. Dr. Desire Sidibe, University of Burgundy (UB), France.
- 4. 3D Scanner Implementation Using C++ and Kinect V2. Supervisor: Prof. Dr. Y. Fougerolle, University of Burgundy (UB), France.

Research Internship at EnCoV, Clermont-Ferrand, France.

Supervisor: Dr. Lilian Calvet and Prof. Dr. Adrien Bartoli

- 1. Laparoscopic Tool Segmentation for Automatic Pose Estimation Using Deep Convolution Neural Network.
- 2. Surgical Tool Segmentation Using Image Analysis.
- 3. Tool tracking for Interactive AR visualization.

#### Experience

- Since 2015 Lecturer, Dept. of EEE, KUET, Khulna, Bangladesh [Teaching] Teaching basic courses and laboratory related to Electrical and Electronic Engineering.
- 2015-2015 Lecturer, Dept. of EEE, DIU, Dhaka, Bangladesh [Teaching] Teaching basic courses and laboratory related to Electrical and Electronic Engineering.

## **Publications**

- 1. Google Scholar: scholar.google.com/citations?user=36WXELIAAAAJ&hl=en
- 2. IEEE Papers: ieeexplore.ieee.org/search/searchresult.jsp?newsearch=true&queryText=md.%20kamrul%20hasan%20kuet

### [References]

1. Prof. Xavier Llado, Ph.D.

Department of Computer Technology and Architecture University of Girona (UdG)

Girona, Spain.

E-mail: xavier.llado@udg.edu Website: atc.udg.edu/~llado/

2. Prof. Arnau Oliver, Ph.D.

Department of Computer Technology and Architecture University of Girona (UdG)

Girona, Spain.

E-mail: arnau.oliver@udg.edu

Website: dblp.uni-trier.de/pers/hd/o/Oliver:Arnau

3. Prof. Dr. Desire Sidibe

Local MAIA coordinator and Course Director

University of Burgundy (uB)

Le Creusot, France.

Cell Phone: +33 3 85 73 10 81

E-mail: dro-desire.sidibe@u-bourgogne.fr

Website: le2i.cnrs.fr/-Dro-Desire-Sidibe-?lang=fr