

Call for Graduate Research Assistant

Project Title: Non-invasive Technique for Assessment of Human Body Temperature Using Infrared Thermography

Source of Funding: Fundamental Research Grant Scheme FRGS (Ministry of Education, Malaysia)

Project Duration: 2 years, Jan 2015 till Dec 2016

Monthly Salary: RM 1800 (an additional of RM 500 – RM800 can be added through Joint MMU-FRGS Graduate Research Assistant Scheme)

Location: Faculty of Engineering, Multimedia University, Cyberjaya campus.

Project Description

High fever is a common symptom in many infectious diseases such as Ebola and SARS. Mass screening is typically done at airports involving visitors coming from countries affected by the epidemic. To prevent the spread of such diseases, human with fever will need to be quickly identified and isolated for further treatment. This project investigates on a fast computer vision technique for automated fever detection using thermal imaging approach.

Benefits of the project (not limited to):

- Attending local conference(s)
- Pursuing Master in Engineering Science (M.Eng.Sc). Tuition fee is waived
- Student with master degree can enroll in MMU Phd program.

Responsibilities:

- Design and experiment on new algorithm related to computer vision in order to perform facial feature detection from thermal image. Fever detection is performed on the extracted facial region.
- Implementation of software prototype using Matlab/C++
- Research publication

Requirements:

- Bachelor's degree with honors in Electronics Engineering, preferably majoring in **Computer engineering** or Bachelor degree with honors in Computer Science
- CGPA of 2nd class or above
- Proficiency in Matlab/C++ languages and some experience with OpenCV is preferred.
- Excellent command in written and oral English.
- Proactive and able to carry out research independently.

Interested applicants are requested to submit their resumes through email to the persons below. All queries regarding the project are welcomed.

Assoc. Prof Dr Mohammad Faizal Ahmad Fauzi (faizal1@mmu.edu.my) or

Assoc. Prof Dr Tan Ching Seong (cstan@mmu.edu.my)

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