

Call for Graduate Research Assistant

Project Title: Handover Model of Heterogeneous Networks for Next Generation 5G Systems

Project Description: Nowadays, heterogeneous network is one of the big communication networks that consist of various mobile cellular systems for 5th Generation (5G) systems. It is important for better network coverage, system capacity, connection speed, and data rate which play a key role in providing good mobile broadband services to a huge number of users and increasing users' satisfaction as well. Unfortunately, the existing functions create significant connections problems, in particular during the users' mobility over various networks. Thus, ensuring a seamless connection during the users' mobility will be the big challenges faced in future heterogeneous networks. A non-robust and non-optimal algorithm for selecting appropriate handover control parameters would leads to inefficient handover decision.

Source of Funding: FUNDAMENTAL RESEARCH GRANT SCHEME (FRGS) 2021 (Ministry of Higher Education (MOHE))

Project Duration: 3 years (36 Months), 2021-2024.

Monthly Allowance: RM 2500

Benefits of the project:

- Pursuing PhD in Engineering. Tuition fee will be waived
- Attending local conferences

Role and Responsibilities:

- To design an efficient handover algorithm and model that making an adaptive decision 5G based on multiple influence factors for heterogeneous networks using Matlab
- Opportunity for research publication

Requirements:

- Masters degree in Engineering/IT, preferably in Telecommunication field
- Proficiency in Matlab. Excellent command in written and oral English.
- Able to carry out research independently and enjoy programming works.

Applicants who are interested can submit their resumes through email to Assoc.Prof.Dr.Mardeni Bin Roslee (Project Leader) at mardeni.roslee@mmu.edu.my late by 25 Sep 2021.