De Montfort University
Graduate School Full Bursary PhD Scholarship

Title of Project: Human Behaviour Modelling and Analysis for User-centric Smart Systems

Context, Intelligence and Interaction Research Group (CIIRG)
Cyber Technology Institute
School of Computer Science and Informatics (SCSI), Faculty of Technology
De Montfort University, Leicester

COMMENCING OCTOBER 2017 or the earliest after

A PhD research scholarship including stipend and tuition fee costs is offered within the CIIRG Research Group in the School of SCSI. It is available to the UK, EU and overseas students who are suitably qualified and have outstanding potential as a researcher.

In offering this scholarship the University aims to further develop its proven research strengths in the areas of computational intelligence, context computing, human computer interaction, IoT, in particular, computational behavior analysis, smart device engineering, personalization and adaptation, and their applications in smart home / environment based active and healthy ageing and intelligent transport and CPS systems. It is an excellent opportunity for a candidate of exceptional promise to contribute to a stimulating, world-class research environment.

Project outline

Behaviour Analysis is an emerging interdisciplinary research area by drawing equally from computer science, the study of human behaviour and smart device engineering which intends to develop computational models and methods to represent and analyse human behaviour and its long-term patterns. This project will address existing drawbacks and knowledge gap by developing a) in-depth understanding of human behaviour assessments in a selected application domain, e.g. onset of dementia or progression of arthritis; b) basic behaviour recognition and analysis models and algorithms, e.g. hybrid modelling approaches that integrate prior domain knowledge and data mining techniques; c) continuous behaviour assessment technologies and mechanisms for long-term behaviour patterns and change detection. The research will be undertaken in the context of active and healthy ageing.

For a more detailed description of the scholarship, the subject area at DMU and an application pack please visit http://www.dmu.ac.uk/research/graduate-school/phd-scholarships.aspx . Please direct academic queries to Prof Liming Chen on +44 (0)116 2078490 or email liming.chen@dmu.ac.uk For administrative queries contact the Graduate School office email: researchstudents@dmu.ac.uk, tel : 0116 250-6309. Completed applications should be returned together with two supporting references and an academic transcript.

Applications are invited from the UK, EU and overseas students with a Master's degree or good first degree in a relevant subject (First, 2:1 or equivalent). Doctoral scholarships are

available for up to three years full-time study commencing in October 2017 consisting of a bursary of £14,296 per annum in addition to waiver of tuition fees. Please note that the scholarship only covers the value of home/EU fees, therefore any overseas students applicants need to be aware that they would have to arrange to pay the difference between the home/EU and overseas fees

Please quote ref: TECHFB1

CLOSING DATE: Friday 8th September, 2017. Interviews for shortlisted candidates will be held by Thursday 28th September 2017.