Real time camera view transformation and visualisation in mixed reality

We are seeking excellent candidates with interests in computer vision, image processing, Artificial Intelligence (AI), and deep learning who want to study at a top 10 UK research-led University whilst working with industrial partners**.**

This project is part of the EPSRC Centre for Doctoral Training in Embedded Intelligence. In choosing this project you'll work alongside academics that are leaders in their field and benefit from a four-year studentship award that includes an enhanced EPSRC tax-free annual stipend of at least £17,553 per annum and UK/EU tuition fees. Furthermore, you will have access to a personal training budget of £10,000, which is in addition to a research budget and support from academic members of staff and industrial partners .

Loughborough University aims to ensure equality for men and women. We follow the principles of the Athena SWAN Charter by wishing to attract, support, and reward women in STEMM at all career stages**.**

Project Details:

The studentship is co-sponsored by Suke Intel and you will join a growing research group within the Department of Computer Science. This project is an exciting opportunity to develop computer vision algorithms and software to conduct automatic and robust camera calibration, 3D reconstruction, and real time online view transformation for applications such as mixed reality, surveillance, entertainment, virtual shopping and human-computer interaction. Any knowledge in image processing, AI and deep learning algorithms will be helpful. Any experience in robust vanishing point detection would be desirable. The successful candidate will understand the real challenges from real applications on computer vision algorithms and their implementation on embedded systems.

Find out more:

www.cdt-ei.org

Entry requirements:

Applicants should have, or expect to achieve, at least a 2:1 Honours degree (or equivalent) in related engineering or computer science degree with strong programming skills. A relevant Master's degree and/or experience in computer vision is desirable.

Applicants must meet the minimum English Language requirements, details available on the website.

Funding information:

The studentship is for four years and provides a tax free stipend of £17,553 per annum for the duration, plus tuition fees at the UK/EU rate. Due to funding restrictions, this is only available to those who are eligible to pay UK/EU fees. In order to qualify for a full award, all applicants must meet the EPSRC eligibility criteria including the minimum UK residency requirement https://www.epsrc.ac.uk/skills/students/help/eligibility/.

Contact details:

Informal enquires about the research project should be made to;

Name: Dr Qinggang Meng
Email address: Q.Meng@lboro.ac.uk
Telephone number: 01509 635 676

Enquiries about the application process and CDT programme can be made to cdt-ei@lboro.ac.uk or visit the website www.cdt-ei.org. For answers to frequently asked questions about the CDT, visit the website.

How to Apply

All applications should be made online at http://www.lboro.ac.uk/study/apply/research/. Under programme name, select "**CDT Embedded Intelligence Wolfson School**"

Please quote reference number: CDTEI_Meng

Application deadline: 15th May 2018.