

PhD studentship (Full-time)



Institution	Xi'an Jiaotong-Liverpool University, China
Department	Department of Electrical & Electronic Engineering
Supervisors	Principle supervisor: Dr. Jimin Xiao (Xi'an Jiaotong-Liverpool University) Co-supervisor: Prof. Tammam Tillo (Xi'an Jiaotong-Liverpool University) Dr. Jeyarajan Thiyagalingam (University of Liverpool, UK)
Application Deadline	Open until the position is filled
Funding Availability	Funded PhD project (world-wide students)
Project Title	Human Face Detection in HEVC Compressed Videos HEVC 压缩域视频人脸检测
Contact	Please email jimin.xiao@xjtlu.edu.cn (principle supervisor's email address) and copy doctoralstudies@xjtlu.edu.cn with a subject line of the PhD project title

Requirements:

The candidate should have a first class or upper second class honours degree, or a master's degree (or equivalent qualification), in Computer science or Electrical & Electronic Engineering or Mathematics. Evidence of good spoken and written English is essential. The candidate should have an IELTS score of 6.5 or above, or an equivalent qualification, if the first language is not English. This position is open to all qualified candidates irrespective of nationality.

Degree:

The student will be awarded a PhD degree from the University of Liverpool (UK) upon successful completion of the program.

Funding:

The PhD studentship is available for three years subject to satisfactory progress by the student. The award covers tuition fees for three years (currently equivalent to RMB 80,000 per annum) and provides a monthly stipend of 3500 RMB as a contribution to living expenses. It also provides up to RMB 16,500 to allow participation at international conferences during the period of the award. It is a condition of the award that holders of XJTLU PhD scholarships carry out 300-500 hours of teaching assistance work per year. The scholarship holder is expected to carry out the major part of his or her research at XJTLU in Suzhou, China. However, he or she is eligible for a research study visit to the University of Liverpool of up to three months, if this is required by the project.

Project Description:

Face detection is one important task in computer vision. It is the basis for other vision tasks, such as face recognition and face tracking. In the past several decades, a lot of research efforts have been dedicated on this task. During the past 4 years, due to the success of the deep learning, especially the convolutional neural network, the face detection accuracy has improved significantly. Most of these researches focus on uncompressed image/video. However, because of the huge data size, videos are compressed before storage or transmission. Detecting human face in the compressed video is not a trivial task. In this project, we are going to tackle the human face detection task using compressed videos, by taking advantage of our expertise on video compression and deep learning.

For more information about doctoral scholarship and PhD programme at Xi'an Jiaotong-Liverpool University (XJTLU): Please visit

<http://www.xjtlu.edu.cn/en/admissions/phd.html>

<http://www.xjtlu.edu.cn/en/admissions/phd/feescholarships.html>

How to Apply:

Interested applicants are advised to email Jimin.Xiao@xjtlu.edu.cn (principle supervisor's email address) the following documents and copy doctoralstudies@xjtlu.edu.cn (please put the project title in the subject line).

- CV
- Two reference letters
- Personal statement outlining your interest in the position
- Proof of English language proficiency (an IELTS score of above 6.5 or equivalent is required)
- Verified school transcripts in both Chinese and English (for international students, only the English version is required)
- Verified certificates of education qualifications in both Chinese and English (for international students, only the English version is required)

Informal enquiries may be addressed to Dr. Jimin Xiao (jimin.xiao@xjtlu.edu.cn), whose personal profile is linked below, <http://www.xjtlu.edu.cn/zh/staff?id=10874427XIT>