

PhD studentship (Full-time)



Institution	Xi'an Jiaotong-Liverpool University, China
Department	Department of Electrical and Electronic Engineering
Supervisors	Principle supervisor: Dr Qiufeng Wang (XJTLU, Department of EEE) Co-supervisor: Professor Kaizhu Huang(XJTLU, Department of EEE) Co-supervisor: Professor Yannis Goulermas (UoL, Department of Computer Science)
Application Deadline	Open until the position is filled
Funding Availability	Funded PhD project (world-wide students)
Project Title	Improving complicated document recognition by multi-modal analysis 利用多模态分析提升复杂文档识别性能
Contact	Please email Qiufeng.wang@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, Mathematics, Mechatronics, Electric or Automation. Evidence of good spoken and written English is essential. The candidate should have an IELTS score of 6.5 or above, 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 5,000 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:

Complicated document means the document with either complicated foreground (e.g., flexible handwriting styles, complicated layout) or complicated background (e.g., scene texts). It is challenging to recognize these documents, where the traditional optical character recognition (OCR) techniques often fail. On the other hand, human can easily read documents because we can fully utilize multi-modal information in the recognition, including the image information and contextual text information. Based on our solid foundation on deep learning, OCR and context models, the objective of this project is to investigate how to improve complex document recognition by using multi-modal analysis, including searching multiple related information, building multiple context models and integrating multiple models in the recognition system. These techniques are useful for a variety of applications, e.g., the digitization of paper-based archives and scene understanding by the recognition of scene text.

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

<http://www.xjtlu.edu.cn/en/study-with-us/admissions/entry-requirements>

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

How to Apply:

Interested applicants are advised to email qiufeng.wang@xjtlu.edu.cn the following documents for initial review and assessment (please put the project title in the subject line).

- CV
- Two reference letters with company/university letterhead
- Personal statement outlining your interest in the position
- Proof of English language proficiency (an IELTS score of 6.5 or above)
- 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)
- PDF copy of Master Degree dissertation (or an equivalent writing sample) and examiners reports available

Informal enquiries may be addressed to Dr. Qiufeng Wang (qiufeng.wang@xjtlu.edu.cn), whose personal profile is linked below,

<https://www.xjtlu.edu.cn/en/departments/academic-departments/electrical-and-electronic-engineering/staff/qiufeng-wang>