PhD studentship (Full-time)

Institution	Xi'an Jiaotong-Liverpool University, China
School	School of School of Advanced Technology
Supervisors	*Please list all the names in the supervisory team. It should be consistent with the information on your approved PGRS proposal.* Principal supervisor: Dr Nanlin Jin (XJTLU) Co-supervisor: Professor Ka Lok Man (XJTLU) Co-supervisor: Dr Guangliang Cheng (UoL)
Application Deadline	Open until the position is filled
Funding Availability	Funded PhD project (world-wide students)
Project Title	Deep learning for online Classification
Contact	Please email: Nanlin.Jin@xjtlu.edu.cn (XJTLU principal supervisor's email address) with a subject line of the PhD project title. The principal supervisor's profile is linked here: http://www.xjtlu.edu.cn/en/staff-details/staff/nanlin-jin

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, AI or Machine learning...
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 99,000 per annum). It also provides up to RMB 16,500 to allow participation at international conferences during the period of the award. 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 up to six months, if this is required by the project.

Project Description:

In online learning, to detect the change of pattern in data stream is called drift detection. It is a pivotal problem, particularly when dealing with ongoing data streams. Drift, commonly refers to the changes in the distribution of the target variable and/or the distribution of the features. Developing robust drift detection algorithms assumes paramount significance in efficiently identifying and pre-warning drifts to ensure the precision and integrity of machine learning models in the dynamic setting of data streams.

This project aims to propose drift detection algorithms based on both deep learning and time series analysis. For example, Capsule Networks whose intrinsic capability to model spatial and/or temporal relationships, can be harnessed to capture even subtle changes in data stream, before and shortly after. It will have great potentials to outperform the existing drift detection methods in both timeliness and accuracy.

We are looking for candidates with an undergraduate or master degree in Computer Science, AI or Machine learning, with a strong background in algorithms, statistical machine learning, time series analysis and deep learning. The candidates should be very experienced in computing programming.

Shortlisted applicants will be interviewed.

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

https://www.xjtlu.edu.cn/en/admissions/global/entry-requirements/

https://www.xjtlu.edu.cn/en/admissions/global/fees-and-scholarship

How to Apply:

Interested applicants are advised to email…..... Nanlin.Jin@xjtlu.edu.cn (XJTLU principal supervisor's email address) the following documents for initial review and assessment (please put the project title in the subject line).

- CV
- Two formal reference letters
- Personal statement outlining your interest in the position
- Certificates of English language qualifications (IELTS or equivalent)
- Full academic 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