PHD SCHOLARSHIP

The School of Civil Engineering at The University of Queensland (Brisbane, Australia) is offering a PhD scholarship for a motivated student to contribute to research being undertaken within the Transport Research Group. The successful student will join Dr. Jiwon Kim’s research group to work on the PhD project, Predictive analytics for real-time traffic management in large-scale urban networks. Potential students with an interest in data mining and machine learning applications in intelligent transport systems (ITS) are strongly encouraged to apply. The scholarships will be for three (3) years and valued at $26,288AUD per year. Top-up scholarships and international student fee-waivers are also available to exceptional candidates.

PROJECT INFORMATION

Predictive Analytics for Real-time Traffic Management in Large-scale Urban Networks

The overall goal of this research is to develop methods and tools for extracting useful information from large amounts of data collected from road networks and using that information to solve diagnosis, prediction, and treatment problems related to urban traffic management and control. This project will develop statistical learning models that learn congestion and incident occurrence patterns from historical data and predict future states using various data mining techniques and machine learning algorithms. The outcomes of this research will be used in developing advanced decision support systems that automate the process of extracting knowledge from large-scale, multi-source data and effectively support decision-making in real-time congestion and incident management at traffic management centres (TMCs).

QUALIFICATIONS

Candidates must hold a relevant undergraduate or Master’s degree in civil (transport) engineering, computer science, mathematics/statistics, operations research, or information/data related science. Candidates with skills or interest in computer programming and/or data mining and artificial intelligence (AI) applications in transportation are strongly encouraged to apply.

HOW TO APPLY

Interested candidates should submit their scholarship application on the Application for school-based PhD or MPhil scholarship form, together with your supporting documents on the RHD online application system.

Details on the application for admission and scholarship process can be found at http://www.civil.uq.edu.au/RHD-application-apply.

For further details on the scholarship project, please contact Dr. Jiwon Kim at jiwon.kim@uq.edu.au.

Submission due by 15 September 2016