Department of Mechanical Engineering
National University of Singapore

Research Position Available

Applications with full CV are to be submitted electronically to:

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Associate Professor
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Job Description:

Applications are invited for a Research Fellow or Research Engineer position in a Singapore-China joint research project that aims to develop a road-merging control system for dense traffic management, with particular emphasis on the traffic patterns of Beijing and Singapore. The specific research tasks include:

(i) developing an analytical model of driver behavior in ramp merging,

(ii) synthesizing a supervisory controller that determines the optimal speed and heading for an on-ramp vehicle in the coverage area, and

(iii) demonstrating the effectiveness of the proposed control system on a lab-based proof-of-concept implementation.

The successful applicant is expected to start employment in as early as August, 2015, for an initial period of one year with possible extension to a total of 2.5 years based on performance. Remuneration is very competitive and will commensurate with qualifications and experience.

Job Requirements:

Applicants should possess a PhD/Master's/Bachelor's degree in the area of dynamics and control or in the area of intelligent transportation systems. Knowledge, skills and experience in the development of machine learning systems and embedded systems are also desirable. Applicants should have good written and verbal communication skills, and preferably have some experience in research proposal preparation. In addition, strong interpersonal skills and commitment to delivering results, and the ability to take initiative and to work independently, are highly valued.