NATIONAL UNIVERSITY OF SINGAPORE

School of Computing

C S   S E M I N A R

Title: **Nokia's World isn't flat - An overview of Nokia map service and related computer vision research topics**

Speaker: Dr Lixin Fan
             Principal Scientist
             Nokia Technologies

Date/Time: 6 November 2014, Thursday, 10:00 AM to 11:00 AM

Venue: Seminar Room @iCube (ground floor, next to the auditorium)

Chaired by: Dr Ng Teck Khim, Associate Professor (Practice), School of Computing
             (ngtk@comp.nus.edu.sg)

Abstract:

Since the creation of the earliest map in 600 B.C., maps have gone through considerable transformations over centuries and become a regular part of our lives. Corporations such as Nokia, Google and Microsoft all provide map services for people who are at their home, with their phones, or in their cars. The widespread coverage of map services and the sheer volume of unconstructed map data pose serious technological challenges in organizing, visualizing and understanding the data. In this talk, I will present a broad overview of related large scale 3D map data processing techniques. A number of map-related computer vision applications and live demos will also be presented.

Biography:

Dr Lixin Fan is a principal scientist at Nokia Technologies. His research areas of interests include 3D image and video processing, Computer vision, Machine learning, Big data analysis, Intelligent human-computer interface, Augmented and virtual reality, Mobile ubiquitous and pervasive computing. His recent research activities are related to Nokia/HERE map 3D data processing and rendering.

Dr Fan is the (co-)author of more than 30 international journal & conference publications. He also (co)invented dozens of granted and pending patents filed in US, Europe and China. Before joining NRC in 2004, Dr Fan was affiliated with Xerox Research Center Europe and his research work included the well recognized Bag of Keypoints method for image categorization. Dr Fan received his MSc and PhD in Computer Science from National University of Singapore in 1998 and 2002 respectively.