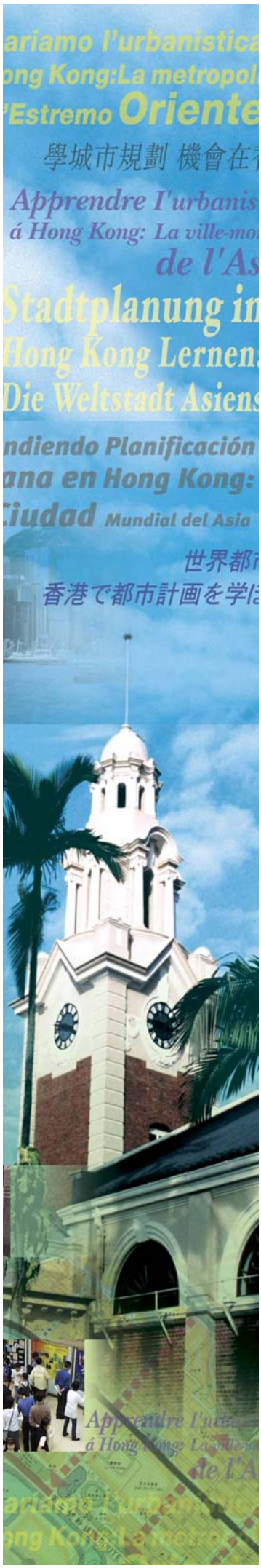

THE UNIVERSITY OF HONG KONG
香 港 大 學

Short-Interval Monitoring of Urban Land Development Using Multi-Temporal RADARSAT-2 Images

Mr. Zhixin Qi

Wednesday, 22 April 2009 (12:45 -14:00)
Room 829, Knowles Building, The University of Hong Kong

Abstract:
Land use information is essential for urban planning and management. Short-interval monitoring of urban land development can provide information for planners to monitor illegal land use changes quickly. Optical aerial and satellite images have been used for a long time to produce information about the current land use. However, they are not appropriate for monitoring short-interval urban land use changes in the areas which are frequently covered by clouds because optical sensors cannot obtain images through cloud covers. Radar remote sensing, which is not affected by cloud conditions, is therefore very promising for obtaining the information of land use changes at a frequent interval in the regions of frequent cloud covers. This research aims to explore the potential of using radar remote sensing to monitor urban land development in short-intervals. In this presentation a new approach that integrates object-oriented image analyses, classification tree method and expert system for detecting urban land use changes from monthly Radarsat-2 images will be proposed. Some preliminary results and findings will also be presented.

About the Speaker:
Mr. Zhixin Qi is currently an MPhil candidate in the Department of Urban Planning and Design in the University of Hong Kong. He received his Bachelor degree in Resources Environment and Urban, Rural Planning Administration in Daqing Petroleum Institution in 2005. He had been a research student in the Department of Remote Sensing and Geographic Information Engineering in Sun Yat-Sen University before he studied at the University of Hong Kong in 2008.

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