



The Latest IoT and Remote Sensing Technologies for Monitoring Urban Trees

(MULT1402)

Introduction

Urban trees worldwide are susceptible to climate change and city development, thereby providing an unfavourable condition for urban trees to grow. Scientists increasingly think about different approaches to effectively monitor and manage urban trees, aiming to prolong the tree life for landscape sustainability. Commenced in February 2018, the 3-year pilot Project “Jockey Club Smart City Tree Management Project” is funded by The Hong Kong Jockey Club Charities Trust. Aiming at sustaining a longer tree life by enhancing the efficiency of tree management, it is a large-scale pilot project on trees in the urban area that uses a quantifiable method for identifying trees with potential needs for follow-up actions. Monitoring tree tilting angles using the remotely sensed technology can unveil the unknowing structural condition of the root, and ultimately, a tree management system will be developed helping determine the tree risk index. This presentation will introduce the advanced technique to monitor and manage urban trees using remote sensing technology.

The speaker Dr WONG Man Sing, Charles is an Associate Professor at the Department of Land Surveying and Geo-Informatics, the Hong Kong Polytechnic University. In 2006-2007, he was a Fulbright scholar with the Earth System Science Interdisciplinary Center, University of Maryland, College Park. He is the official site manager for the NASA’s AERONET station in Hong Kong. In 2014, he has received an Early Career Award from the Hong Kong Research Grants Council; two Faculty Award for Outstanding Performance/Achievement Award in Teaching in 2014 and 2016, respectively; a Dean’s Award for Outstanding Achievement in Research Funding in 2016. He has been working in various projects including the use of remote sensing to study urban heat island effect, urban environmental quality, landslides, vegetation and ecosystems, spectral mixture analysis, aerosol retrieval, air quality and dust storm monitoring. Dr. Wong has published about 90 SCI journal publications since 2005.

Programme Type/ Level

Introductory Talk in Multi-disciplinary ([NON Token-required](#))

Speaker

Dr WONG Man Sing, Charles

Target Participants



- S2 to S4 HKAGE student members
 - Class Size: 50
- First come, First served**

Language



English (Supplemented by Cantonese if necessary)

Application Deadline

25 Nov 2019 12:00 n.n.

Schedule



Date	30 December 2019 (Monday)
Time	10:00 a.m.—12:00 n.n. (Please arrive at 9:45 a.m. for registration) 10:00 a.m. – 11:00 a.m. (Please arrive at 9:45 a.m. for registration)
Activities	10:00 a.m. – 11:00 a.m.: Talk 11:00 a.m.—12:00 n.n.: Laboratory Tour
Venue	Z503, 5/F, Block Z, The Hong Kong Polytechnic University Room 403, The Hong Kong Academy for Gifted Education

Enquiries



For enquiries, please contact us at 3940 0101 after language selection, press "1".

TALK

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