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CHAPTER

Presents a seminar on

Green IoT and Data Analytics for Smart Cities

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Date : 10 May 2019 (Friday)

Time : 2:30pm - 3:30pm

Venue : G6315, 6/F, Green Zone, Yeung Kin Man
Academic Building, CityU

Abstract

Cities around the world are currently under quick transition towards low carbon environment, high quality of living, and resource efficient economy. Internet of Things (IoT) has become a promising technology for addressing societal challenges, such as air quality, transportation, and energy efficiency. IoT for smart cities provides the accessibility of open data for city planning. In this talk, we will present our research project, called Green-IoT, for open data and sustainable development in Uppsala, Sweden. In this project, we developed an integrated IoT solution and testbed for air pollution monitoring in the city. We will present the system architecture, testbed development, and our research work on data analysis using Gaussian Process for urban environmental modelling. Finally, we will highlight our on-going research activities and future directions on IoT and data analytics for smart cities.

Biography

Edith Ngai is currently an Associate Professor in Dept of Information Technology, Uppsala University, Sweden. She received her PhD from The Chinese University of Hong Kong in 2007. She was a post-doc in Imperial College London, United Kingdom in 2007-2008. Her research interests include Internet-of-Things, mobile cloud computing, network security and privacy, smart city and urban informatics. She was a guest researcher at Ericsson Research Sweden in 2015-2017. Previously, she has also been a visiting researcher in Simon Fraser University, Tsinghua University, and UCLA. Edith was a Vinnmer Fellow (2009) awarded by Swedish Governmental Research Funding Agency VINNOVA. She served as TPC members in various international conferences, including IEEE ICDCS, IEEE ICC, IEEE Infocom, IEEE Globecom, IEEE/ACM IWQoS, and IEEE CloudCom, etc. She was a program chair of ACM womENcourage 2015, TPC co-chair of IEEE SmartCity 2015, IEEE ISSNIP 2015, and ICNC 2018 Network Algorithm and Performance Evaluation Symposium. She is an Associate Editor of IEEE Internet of Things Journal, IEEE Transactions of Industrial Informatics, and IEEE Access. Edith is a Senior Member of ACM and IEEE.

~~~ All are welcome ~~~