



THE CHINESE UNIVERSITY OF HONG KONG
Department of Information Engineering

Seminar

Towards Open and Green Buildings
by
Professor Dan Wang
Department of Computing
The Hong Kong Polytechnic University

Date : 23 Sept., 2013 (Mon.)
Time : 11:00am – 12:00noon
Venue : Room 833 Ho Sin Hang Engineering Building
The Chinese University of Hong Kong

Abstract

Energy issues have become a great concern all over the world. Commercial buildings are one of the top energy consumers, and they account for 65%, if not more, of energy consumption in Hong Kong.

In this talk, we present some of our experience towards developing green buildings. We first present a wireless building management system (BMS). This system is more flexible and smarter than current wired systems. We then present our effort in making this system open, i.e., interact with other systems using common standards. We develop a mobile phone app to interact with the BMS to provide customized thermal comfort. Finally, we present one example of energy conservation in developing better class schedules for universities. One key component is quantification of the energy consumption of individual building rooms, where we jointly understand physical systems and develop wireless sensing systems for fine-granularity data monitoring.

Biography

Dan Wang is currently an Associate Professor at the Department of Computing, The Hong Kong Polytechnic University. His research interest is wireless sensor networks, Internet and applications. Recently he focuses on green computing. He got his B.S., from Peking U, M.S., from Case Western Reserve U, Ph.D. from Simon Fraser U, all from computer science. He joined HK PolyU as an assistant professor in 2007.

**** ALL ARE WELCOME ****

Host: Professor Minghua Chen (Tel: 3943-8452, Email: mhchen@ie.cuhk.edu.hk)
Enquiries: Information Engineering Dept., CUHK (Tel.: 3943-8385)