



學術報告

Smartphone based Crowd Estimation



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Biography: Guoqiang Mao received his PhD degree in telecommunications engineering from Edith Cowan University. He was with the University of Sydney between 2002 and 2014. He is currently a Professor of Wireless Networking and Director of Center for Real-time Information Networks in University of Technology Sydney, which is among the largest university research centers in Australia in the field of wireless communications and networking. His research interest includes intelligent transport systems, applied graph theory and its applications in telecommunications, wireless sensor networks, wireless localization techniques and network performance analysis.

Urban planning and management increasingly rely on information about a city, its environment and residents. Proliferation of sensing capabilities in smartphones is creating a deluge of data and provides exciting new opportunities to obtain city information in real time to fill the gap left by the traditional sensing and surveying techniques. In this talk, I will introduce our current work on smartphone based system for urban sensing, particularly crowd density and mobility estimation. Our ongoing work on developing a prototype of a smartphone based system for urban mobility monitoring will be introduced and the challenges in the development will be discussed.