




学术报告会 Seminar

题目	Wireless Road Infrastructure for Accurate and Reliable Vehicle Localization - A Roadmap to the Future	
报告人	Professor Guoqiang Mao Center for Real-time Information Networks, University of Technology Sydney, Australia	
时间	2018年3月21日(星期三) 中午 12:00-13:00 2018年3月20日(星期二) 上午 10:00-11:00	
地点	上海科技大学, 信息学院 1 号楼 C 区 502 会议室 (上海雾计算实验室)	

Abstract: Connected and autonomous vehicles (CAVs) are set to completely disrupt countless aspects of daily personal life, business, and technology in the decades to come. The safe and efficient mass deployment of CAVs requires the support of revolutionary, next generation smart road infrastructure. Accurate and reliable localization anytime anywhere is a key requirement for the safe and efficient operations of CAVs. This talk will start with an introduction to our previous research projects in localization area. Then, it will introduce our future work plan to lay the theoretical foundation for establishing the wireless road infrastructure needed to support accurate and reliable localisation of connected and autonomous vehicles (CAVs), via the deployment and coordination of a large number of low-cost road beacons. The proposed solution complements existing satellite, and map-and-sensor, based localisation, and extends this technology to provide accurate CAV localisation in complex and dynamic environments, like urban canyons and tunnels.

Bio: Guoqiang Mao received PhD in telecommunications engineering in 2002 from Edith Cowan University, Australia. He was with the School of Electrical and Information Engineering, the University of Sydney between 2002 and 2014. He joined the University of Technology Sydney in February 2014 as Professor of Wireless Networking and Director of Center for Real-time Information Networks. He has published over 200 papers in international conferences and journals, which have been cited around 6,000 times. He is an editor of the IEEE Transactions on Intelligent Transportation Systems, IEEE Transactions on Wireless Communications, IEEE Transactions on Vehicular Technology and received "Top Editor" award for outstanding contributions to the IEEE Transactions on Vehicular Technology in 2011, 2014 and 2015. He is a co-chair of IEEE Intelligent Transport Systems Society Technical Committee on Communication Networks. He has served as a chair, co-chair and TPC member in a large number of international conferences. His research interest includes intelligent transport systems, applied graph theory and its applications in telecommunications, Internet of Things, next generation mobile communication systems, and wireless localization techniques. He is a Fellow of IEEE and IET.

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