



# 控制科学与工程学院 科技创新论坛



**报告人: Prof. Jianping Pan**

University of Victoria, Canada

**报告题目:**

**Mobile Elements in Wireless Sensor Networks**

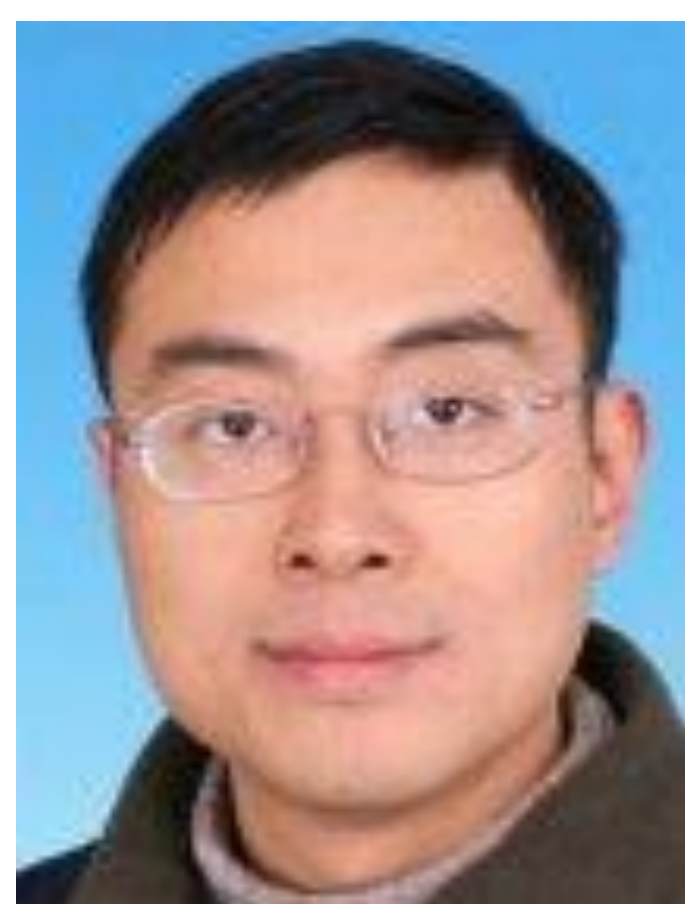
**报告时间: 周日 14:30--16:00 (12月24日)**

**报告地点: 工控新楼211室**

*Abstract:*

Data collection is one of the main applications of wireless sensor networks. Traditional ways to such an important task use either direct transmissions to the sink node. Mobile elements introduce a new dimension to reducing and balancing the energy consumption of sensor nodes, which also increase the data collection. In this talk, we present a progressive optimization approach to data collection in wireless sensor networks with mobile elements, and extend it to the scenario with multi-rate wireless communications. We also investigate the performance of data collection with mobile elements in an online scenario where the data collection requests and thus their locations only arrive progressively, and show such an approach to applications beyond data collection, such as wireless recharging. This is a joint work with Prof Liang He at the University of Colorado, Denver, CO, USA.

**报告人简介:**



Dr. Jianping Pan is currently a professor of computer science at the University of Victoria, Canada. His area of specialization is computer networks and distributed systems, and his current research interests include protocols for advanced networking, performance analysis of networked systems, and applied network security. He received the JSPS Invitation Fellowship in 2012, the IEEE ICC 2013 Best Paper Award, and the NSERC DAS Award in 2016, and has been serving on the technical program committees including INFOCOM, ICC, Globecom, WCNC and CCNC. He was the Ad Hoc and Sensor Networking Symposium Co-Chair of IEEE Globecom 2012 and an Associate Editor of IEEE Transactions on Vehicular Technology. He is a senior member of the ACM and a senior member of the IEEE.

**联系老师: 孙优贤**

**欢迎广大师生参加!**

