学术报告会

时间：**2013年5月22日(周三)10:00-11:00**
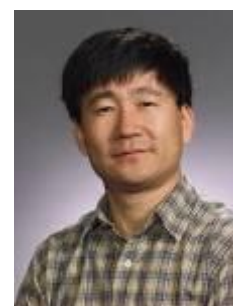
地点：**电院群楼2-406会议室**

Cloud-Assisted Mobile Health Systems:

Security and Privacy

Prof. Yuguang Fang

University of Florida, USA

Abstract:

With widely deployed wireless telecommunications systems and the surge of popularity of smart mobile devices (e.g., smart phones), modern healthcare systems have revolutionized the way we are living and have steadily improve our quality of life. Mobile health (m-Health) represents one of the important developments along this line, which target at managing the healthcare of people on the move by using smart devices to collect and process needed medical information and provide timely care. Unfortunately, the major stumbling block in the wide deployment of m-Health systems is security and privacy. In this talk, we will focus on the design of a diagnostic m-Health system to articulate how we effectively address security and privacy issues by utilizing a few emerging cryptographic tools. Moreover, we will demonstrate how we shift the computational complexity to the cloud without compromising the security and privacy of medical data, diagnostic program, and participants (including patients and healthcare service providers).

Biography:

Yuguang "Michael" Fang (F'08) received a Ph.D. degree in Systems Engineering from Case Western Reserve University in January 1994 and a Ph.D. degree in Electrical Engineering from Boston University in May 1997. He was an assistant professor in New Jersey Institute of Technology from July 1998 to May 2000. He then joined University of Florida in May 2000 as an assistant professor, got an early promotion to an associate professor with tenure in August 2003 and to a full professor in August 2005. He holds a Changjiang Scholar Chair Professorship with Xidian University, Xi'an, China, from 2008 to 2011, and a Guest Chair Professorship with Tsinghua University, China, from 2009 to 2012. He has published over 300 papers in refereed professional journals and conferences. He received the National Science Foundation Faculty Early Career Award in 2001 and the Office of Naval Research Young Investigator Award in 2002, and is the recipient of the several Best Paper Awards including IEEE ICNP 2006 and IEEE High-Speed Networks Symposium, IEEE Globecom 2002. He has also received 2011 Florida Blue Key/UF Homecoming Distinguished Faculty Award and the 2009 UF College of Engineering Faculty Mentoring Award. He is a Fellow of IEEE and a member of ACM. He serves as the Editor-in-Chief for IEEE Transactions on Vehicular Technology (2013-present). He served as the Editor-in-Chief for IEEE Wireless Communications (2009-2012) and serves/served on several editorial boards of technical journals.