



控制科学与工程学院 科技创新论坛



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报告题目:

The Internet of Things and its Security Challenges

报告时间: 周一 15:30--17:00 (8月6日)

报告地点: 新楼501室

Abstract:

Internet of Things (IoT) is an emerging. Things in IoT can take a wide variety of forms, from simple RFIDs attached to merchandises, smart thermostats installed in the classrooms, implantable medical devices on the patients, to video cameras on top of light poles. Some significant risks go along with the potential benefits of the IoT. As devices are more closely connected with our physical world and some are capable of taking actions, data security and device security become critically important. A secure and trustworthy IoT is not an easy task. It demands multiple lines of defense from different layers to thwart attacks. It also requires the integration of security and privacy mechanisms. In this talk, I will then focus on unique security and privacy challenges in the IoT. Many of the security and privacy problems are very challenging and call for interdisciplinary expertise from a number of technical domains.

报告人简介:



Wenjing Lou is the W. C. English Professor of Computer Science at Virginia Tech and IEEE Fellow. She holds a Ph.D. in Electrical and Computer Engineering from the University of Florida. Her research interests cover privacy protection techniques in networked information systems and cross-layer security enhancement in wireless networks. Prof. Lou is currently on the editorial boards of IEEE TDSC, ACM/IEEE ToN, IEEE TMC. She is the Steering Committee Chair of IEEE CNS. Prof. Lou served as a program director at the US NSF. At NSF, her responsibilities included the NeTS program, a core program of the CNS division within the Directorate for CISE, and the SaTC program, a cross-cutting security program led by CISE/CNS.

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