

Secure Information Gathering in Wireless Sensor Networks

Speaker: Ms. Wei Zhang, CReWMaN PhD Student

Date: Friday, Sept 15, 2006

Time: 10 am - 12 noon

Venue: CReWMaN Lab, WH 413

Abstract:

With wireless sensor networks (WSNs) rapidly emerging, security becomes one main concern for various applications, especially those in unattended and hostile environments. In this talk, we will discuss two novel schemes that we recently proposed to secure information gathering in WSNs: (i) a trust based framework to secure information aggregation against compromised node attacks and (ii) an end-to-end approach to authenticate sensory data without enroute checking.

[This work is supported by NSF PSI project. Part of this work will be presented in IEEE SECON 2006 conference on Sept 26-28, 2006.]

Bio:

Ms. Wei Zhang is a Ph.D student in the department of computer science at the University of Texas, Arlington. She joined CReWMaN lab in Jan. 2003. Her research focus is on wireless sensor networks, particularly security issues.