Institute for Integrated and Intelligent Systems (IIIS) and School of Information and Communication Technology (ICT) is pleased to present the SEMINAR on

"An Architecture for Secure Trust Management Scheme in MANETs"

Ms Raihana Ferdous PhD Candidate

**Time** 12.00 - 1.00pm  
**Date** 15 September 2010  
**Venue** G30_2.15. Gold Coast campus Griffith University.

**Abstract:** In a mobile ad hoc network (MANET), information exchange between source and destination nodes often carried out through intermediate node(s). Thus, any trust management scheme must ensure that the trusted information is being communicated among the nodes in a secure environment. The deployment of any security infrastructure also requires the definition of a trust model that defines who trusts who and how to manage trust as a notion. None of the previous work proposes a security solution from a system architectural view which also enhances a trust management system. In this paper, we propose a Security Architecture for Node-based Trust Management (NTM) scheme in MANETs. Here, we aim to define functionalities for our layered security architecture. We also analyse the security mechanism on top of NTM Scheme to effectively detect and confine common attacks. Finally, we explain that how a new information can be updated and a secured route can be selected in NTM scheme.

**Bio:**  
Ms Raihana Ferdous completed her Masters degree in Computer Science at National University, Bangladesh. She is a PhD candidate attached to the IIIS. She is currently working with the objective to integrate the trust metric mechanisms to provide a standard Secured framework for Mobile ad-hoc Networks. Her overall research works are in line with the broad title of “Dynamic Trust Management System for Global Ubiquitous Computing”.