

Concordia Institute for Information Systems Engineering

**THE CONCORDIA INSTITUTE FOR INFORMATION SYSTEMS ENGINEERING  
IS PLEASED TO PRESENT THE FOLLOWING GUEST LECTURE IN  
OUR CIISE SEMINAR SERIES**

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**Mr. Rakesh Saini, M.A.Sc. Student  
Information Systems Security**

**Access Control on XML-based RFID Data**

In the past decade, there has been a boom in deploying Radio Frequency Identification (RFID) tags in different fields, e.g., electronic toll collection and contact-less passports. Most protocols proposed so far focus on scenarios that RFID tags are used mainly for the purpose of identification and tracing. Recently, there rise interests of using RFID tags as distributed storage so as to retrieve information related to a component, e.g., its status instead of only its identification, in real-time, due to the benefit of convenient wireless management. However, such early work concentrates mainly on the basic functionality (e.g., storing and retrieving) of RFID tags in this type of applications, but security issues (e.g., access control to the data stored on a RFID tag) are largely ignored. In this seminar, we present an access control scheme that aims at the scenarios that RFID tags are used in the form of distributed storages. Unlike previous RFID applications, to improve the storage efficiency, we allow to store data from different sources on the same tag.

**Biography:** Rakesh Saini is pursuing his Master of Applied Science in Information Systems Security at Concordia University since September, 2007. His area of research is Network security and Information security. Currently he is working on RFID security. Previously, he received his B.E. in Information Technology from Kurukshetra University, Kurukshetra, India in June, 2004. He also has MCSE *messaging* (windows server 2003) and CCNA Certifications.

**Thursday, February 19, 2009**

**16:00 – 17:00  
EV003.309**

***Refreshments will be served***  
**(1515 St. Catherine Street West)**