



IEEE

**Ottawa
Section**



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COLLEGE**

The IEEE Ottawa Joint Chapter of Communications Society, Broadcast Technology Society and Consumer Electronics Society (ComSoc/BTS/CES), IEEE Ottawa Section, IEEE Algonquin College Student Branch, and Department of Electronics and Electro-Mechanical Studies, Algonquin College are inviting all interested IEEE members and other engineers, technologists, and students to a technical seminar on

RFID - Newly Emerging Technology and Research Areas

by

**Dr. Qinghan Xiao, IEEE Senior Member,
Defence Scientist, Defence R&D Canada (DRDC), Ottawa Canada**

DATE: Thursday December 9, 2010.

TIME: Registration and Networking: 03:30 p.m.; Seminar: 04:00 p.m. – 05:00 p.m.

PLACE: Algonquin College, Room T129, P-Building, [1385 Woodroffe Ave.](#), Ottawa, Ontario

PARKING: at the Visitors' Parking Lots 8 & 9. Please respect restricted areas.

Admission: Free. Registration required. To ensure a seat, please register by e-mail contacting:

Gerry Crichlow at crichlg@algonquincollege.com or Bashir Morshed at morsheb@algonquincollege.com or Wahab Almuhtadi at almuhtadi@ieee.org.

Abstract

Radio Frequency Identification (RFID) is listed as one of the ten most important technologies of the century, which is an area of automatic identification that utilizes radio waves to identify unique instances of objects or people. Many government agencies and private companies are starting to integrate RFID into their business to reduce operation costs, improve process efficiency, optimize asset utilization, and enhance safety and security. Based on speaker's knowledge and experience in RFID technology, this seminar will address the following questions:

- What are RFID key components?
- How does an RFID system work?
- Where are RFID systems being used?
- How to protect RFID systems from being attacked?

The objective is to help the students understand the key issues in developing RFID.

Bio

Dr. Qinghan Xiao, IEEE Senior Member, is a Defence Scientist at the Defence R&D Canada. He serves as the Chair of Task Force on Biometrics of the IEEE/CIS Technical Committee on Intelligent Systems Applications. His current research interests include biometric and RFID technologies. He is a Canadian delegate of the ISO/IEC JTC1 SC37 Standards Committee on biometrics, and works on a CRTI project to use RFID for in-the-field management of CBRN casualties. Dr. Xiao has been invited to speak and chair sessions in many national and international conferences. He holds a Ph.D. in Computer Science from the University of Regina. Dr. Xiao received the 2010 Outstanding Engineer Award from IEEE Ottawa Section recently.