



The IEEE Montreal Section and Concordia University are inviting all interested IEEE Montreal members and other engineers and students to a technical seminar on:

**“Smartphones + Cloud Computing + Near Field Communications:
The next big wave in wireless”**

By: Dr. Srinivas (Srini) Sampalli

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DATE: Wednesday August 28, 2013.

Seminar Time: 6:30 p.m. – 8:00 p.m.

PLACE: 1515 Ste. Catherine West (corner with Guy St.), Concordia University, Electrical & Computer Engineering Department, Room EV003.309 (with refreshment)

For info, please contact **Dr. Anjali Agarwal** at aagarwal@ece.concordia.ca or **Dr. Anader Benyamin-Seevar** at anader.benyamin@ieee.org or <http://ewh.ieee.org/r7/montreal/chapters/COM/index.html>.

Abstract :

We are currently witnessing an unprecedented growth in mobile technologies. Smartphones are slated to become our principal computing devices in the near future, offering tremendous computing and storage capabilities in addition to superior graphics and multi-network connectivity. Recently, we have seen the emergence of smartphones with embedded near field communication (NFC) chips that can tap into cloud applications. The technology is based on a simple concept, yet the application possibilities are breathtaking in diverse areas such as healthcare, mobile payments, hospitality, access control, distribution and retail, manufacturing, transit, and many more.

This talk will focus at the intersection of the three areas, namely, Smartphones, cloud computing and NFC. It will present representative application areas where the technology can provide great benefits. Technical challenges to its deployment, especially in the areas of security will be discussed. Some of the future directions for the technology will be explored.

Dr. Srin Sampalli's short Bio:

Dr. Sampalli is a Professor and 3M National Teaching Fellow in the Faculty of Computer Science, Dalhousie University, Halifax, Nova Scotia, and brings with him nearly 20 years of teaching and research experience. His interests are in the areas of security and applications of emerging wireless technologies. He has successfully led industry-driven research and development projects on protocol vulnerabilities, security best practices, design of intrusion detection and prevention systems, and applications of RFID systems and NFC-enabled smartphones. His projects have been funded by NSERC, Industry Canada and the NRC. Teaching is one of Dr. Sampalli's primary passions. He has received the Dalhousie Faculty of Science Teaching Excellence award, the Dalhousie Alumni Association Teaching award, the Association of Atlantic Universities' Distinguished Teacher Award, a teaching award instituted in his name by the students within his Faculty, and the 3M National Teaching Fellowship, Canada's most prestigious teaching acknowledgment.