

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

Dr. Ali Ghorbani, Dean

Faculty of Computer Science
University of New Brunswick

Gaps, Research Challenges and Solutions

The Information Security Centre of Excellence (<http://www.iscx.ca>) at the University of New Brunswick is a broad based centre having both an education and research mandate. The primary focus of our research group in the Centre is to study network data for the purpose of intrusion detection. We employ diverse research disciplines such as machine learning, data mining, fuzzy logic, and multi-agent systems to develop novel algorithms and techniques for intrusion detection and prevention systems. Our areas of interest include, but not limited to, *anomaly detection*, *alert correlation*, *rule adaptation*, *application discovery*, *security visualization*, and *Simulation of Network Attacks*. This talk takes a look at our contributions to these topics. At the end, I will provide an overview of our current research focus on botnet detection, mitigation, and visualization.

Biography: Dr. Ali Ghorbani has held a variety of positions in academia for the past 30 years including heading up projects and research groups and as department chair, director of computing services, and as assistant dean. Currently, Dr. Ghorbani serves as Dean of the Faculty of Computer Science, University of New Brunswick. He received the university's merit award for outstanding contributions to the University of New Brunswick in 2003 and UNB Research Scholar award for 2007-08. His current research focus is Web Intelligence, Network & Information Security, Complex Adaptive Systems, and Critical Infrastructure Protection. He authored more than 230 reports, book chapters, research papers in journals and conference proceedings and has edited 8 volumes. He is the co-inventor of 3 patents in the area of Web Intelligence and Network Security. He served as General Chair and Program Chair/co-Chair for 7 International Conferences, and organized over 10 International Workshops. He has also supervised more than 120 research associates, postdoctoral fellows, and graduate students. He was the project leader and principal investigator for three Atlantic Innovation Fund projects valued at over \$5M. Dr. Ghorbani is the founding Director of Information Security Centre of Excellence at UNB. He is also the coordinator of the Privacy, Security and Trust (PST) network. Dr. Ghorbani is the co-Editor-In-Chief of Computational Intelligence, an international journal, and associate editor of the International Journal of Information Technology and Web Engineering and the ISC journal of Information Security. His book, *Intrusion Detection and Prevention Systems: Concepts and Techniques* published in 2009. Dr. Ghorbani is the member of ACM, IEEE, and Canadian Information Processing Society (CIPS). He is a member of CIPS Professional Standards Advisory Council (PSAC) and the Natural Sciences and Engineering Research Council of Canada committee on Safety and Security.

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15:00 – 16:00

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