

Concordia Institute for Information Systems Engineering

**THE CONCORDIA INSTITUTE FOR INFORMATION SYSTEMS ENGINEERING
IS PLEASED TO PRESENT THE FOLLOWING GUEST LECTURE**

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Mobile Blood Donation Registration Service: Security and Privacy Issues

This talk presents a case study of adopting Service Oriented Architecture (SOA) in the Hong Kong Red Cross to support blood transfusion services. Every time a blood donor attends a donation center, he/she must proceed through the registration process, requiring them to fill in the registration form, regardless of whether they are a first-time-donor. Based on some research studies, the registration process is a cumbersome and time consuming process which increases the drop-out rate of blood donors. The purposes of this research project are to optimize the process and minimize the drop-out rate of blood donors by using semantic rules. Using the Web 2.0 and semantic Web technologies, the system includes a novel service which supports the privacy access control and security, in protecting the donors' personal information provided throughout the blood donation process. The system is built on the mobile model of SOA and XML related security technologies. This talk discusses the security and privacy issues of such a mobile service. The system is currently being tested and studied in the Hong Kong Red Cross blood donation center. In addition, an empirical study of technology adoption is also conducted at the site to test the usability and feasibility of such a system from the blood donors' perspectives. The system is planned to launch at the blood donation centers in August 2009.

BIOGRAPHY: Patrick Hung is an Associate Professor and the Graduate Program Director at the Faculty of Business and Information Technology in UOIT. He is also an Adjunct Faculty Member at the Department of Electrical and Computer Engineering in University of Waterloo. Patrick is currently collaborating with Boeing Phantom Works (Seattle, USA) and Bell Canada on security- and privacy-related research projects. He is also cooperating on Web services composition research projects with Southeast University in China, and on a mobile healthcare project with the Hong Kong Red Cross with the Chinese University of Hong Kong. He is an executive committee member of the IEEE Computer Society's Technical Steering Committee for Services Computing, a steering member of EDOC "Enterprise Computing," and an associate editor/editorial board member/guest editor in several international journals such as the IEEE Transactions on Services Computing (TSC), International Journal of Web Services Research (JWSR) and International journal of Business Process and Integration Management (IJBPIIM). He has been published more than 100 research and technical articles in International journals, conferences and workshops.

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