

## COMPUTER SCIENCE COLLOQUIUM

Department of Computer Science  
City University of Hong Kong

### Fast Identification of Potential Terrorists and Malicious Cyber Transactions

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**Foster Distinguished Chair Professor**  
**Louisiana State University**  
**USA**

**Date :**

3 November 2009 (Tuesday)

**Time :**

10:30am - 11:30am (Refreshment will be served at 10:15am)

**Venue :**

College Conference Room B6605, 6th Floor Blue Zone, Academic Building,  
City University of Hong Kong, Tat Chee Avenue, Kowloon Tong

#### Abstract

In recent years, terrorism and cyber attacks have become two major threats to our society. Finding solutions to reduce these two types of threats has become one of the top priorities. This seminar presents the research results of research project by the speaker and his colleagues funded by US-NSF, US-AFOSR, and Louisiana Board of Regents on the integration of profiling, mathematical optimization techniques, and databases for improving the efficiency and effectiveness of singling out the potential terrorists (or malicious cyber transactions) from a large population. The techniques developed will be useful in enforcing airport security, deterring cyber crimes, and reducing the chance of another major terrorist attack such as the September-11 attack on the World Trade Center in NYC.

#### Biography

Dr. Peter P. Chen, Distinguished Chair Professor at Louisiana State University (LSU), is internationally known for his development of the Entity-Relationship (ER) Model, the foundation of many systems analysis and design methodologies, computer-aided software engineering (CASE) tools, and repository systems including IBM's Repository Manager/MVS. The ER model was adopted as the ANSI standards for Information Resource Directory System (IRDS) and has been consistently ranked as the top methodology for database design around the world. His original ER model paper was chosen as one of 38 most influential papers in Computer Science by a survey of over 1,000 computer science professors and included in the Book, *Great Papers in Computer Science*. The ER model is a fundamental topic in the ACM/IEEE recommended curriculum and serves as a foundation for Object-Oriented (OO) techniques, UML, and Semantic Web.

After receiving his Ph.D. degree from Harvard, Dr. Chen has held faculty positions at MIT, UCLA, Harvard, and LSU. He is a Fellow of IEEE, ACM, and AAAS. He received many top awards including ACM/AAAI Allen Newell Award, IEEE Harry Goode Award, DAMA International Achievement Award, Stevens Software Method Innovation Award, and Pan Wen-Yuan Outstanding Research Award. He was inducted into the "Data Management Hall of Fame" and recognized as one of the 16 "software pioneers" in the world by a book, *Software Pioneers*. Dr. Chen has served as an invited expert of the World Wide Web Consortium for 6 years. He has been a member of several advisory boards for the U.S. government including the NSF/CISE Advisory Committee. He has served as a keynote/plenary speaker for more than 30 international conferences and is one of 80 famous people listed in the The Free Online Dictionary of Computing. He is listed in Who's Who in America and Who's Who in the World.

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All are welcome!

*In case of questions, please contact Prof Frances Yao at Tel: 2194 2907, E-mail: csfyao@cityu.edu.hk,  
or visit the CS Departmental Seminar Web at <http://www.cs.cityu.edu.hk/>.*