

Department of Systems Engineering and Engineering Management

Jointly organized with IEEE Technology Management Council Hong Kong Chapter

Seminar Series

Two-factor Smartphone Authentication with Encrypted Steganography for Door Access Control

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Date	10 July 2014 (Thursday)
Time	10:30am (Tea/Coffee service at 10:15am)
Venue	B6619, 6/F, AC1

Abstract

The purpose of this study is twofold. First, this study presents an ingenious design and development of a door access control system that utilizes the always-in-hand smartphone. The proposed system is known as the Near Field Communication (NFC) Encrypted Steganography Graphical Password smartphone access control system. This system enables individuals to unlock door using a two-factor authentication system incorporating graphical password, steganography and cryptography techniques. Second, this study draws upon Technology Acceptance Model and Protection Motivation Theory to examine the users' behavioral intention to use the proposed system. Our findings offer fresh insights for scholars, mobile device manufacturers and service providers in developing a unified door security system with NFC-enabled smartphone.

About the Speaker

Dr. Pei-Lee Teh is a Senior Lecturer with the School of Business. Prior to joining Monash University, she was a Senior Lecturer in Multimedia University. She holds the degrees of Bachelor of Information Technology, Master of Management, and a Ph.D. in Management. She is currently the Associate Editor of the Decision Sciences Journal of Innovative Education (DSJIE), and a member

of the Editorial Review Board of the Journal of Computer Information Systems, Industrial Management & Data Systems, International Journal of Modelling in Operations Management, International Journal of Engineering Business Management, Australian Journal of Business and Management Research, and International Journal of Supply Chain Management. She is also the Chair of IEEE Malaysia Section Technology Management Council (TMC) Chapter, and a member of the Association for Information Systems (AIS), Academy of Management (AOM), Institute for Operations Research and the Management Sciences (INFORMS), and Institute of Electrical and Electronics Engineers (IEEE). Her teaching and research interests cover Total Quality Management, Technology Management, Management Information Systems, Knowledge Management, Innovation and Learning. She has authored or co-authored papers published in 27 international journals and 20 international conferences proceedings. Her work appears in journals such as Asia Pacific Journal of Management, Expert Systems with Applications, Journal of Computer Information Systems, Industrial Management & Data Systems, Total Quality Management & Business Excellence, Journal of Business Economics and Management, Educational Studies and etc.

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All are Welcome!

SEEM Seminar 2013-2014/045