

# **Patrick Hung, PhD**

**Associate Professor, Faculty of Business and Information Technology at University of Ontario Institute of Technology**

Oshawa, ON, CA

Internationally recognized IT security expert developing a privacy framework to safeguard mobile device use among children

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## **Description**

Mobile computing has swelled among children who readily have access to an array of mobile devices from smartphones and tablets to handheld videogames. Moreover, school-aged kids are carting mobile devices everywhere and using them to connect with friends, unknowingly revealing their location or other personal details. Yet, there are currently no Canadian privacy laws to protect kids in this environment.

Patrick Hung, PhD, Associate Professor in the Faculty of Business and Information Technology, is leading some of the world's first research on the security and privacy of mobile toys and software. Findings of his security analysis on mobile devices and video games prompted him to explore this gap across cultural and social differences. He co-authored *Mobile Services for Toy Computing*, one of the first-of-its-kind books, and he is developing a novel security and privacy model to help prevent kids from revealing too much information.

Dr. Hung is a Visiting Professor in the School of Arts, Sciences and Humanities at the University of São Paulo, Brazil, and an Honorary International Chair Professor in the Department of Electronic Engineering at National Taipei University of Technology in Taiwan. Over the past decade, he has served as a visiting researcher and guest professor at universities around the world. He joined UOIT as an assistant professor in July 2004, and often travels abroad with undergraduate students providing opportunities to collaborate on world-class research through Science Without Borders and Globalink Research Internships. Previously a research scientist, Dr. Hung was recruited to UOIT from the ICT Research Centre of the Commonwealth Scientific and Industrial Research Organization (CSIRO) in Canberra, Australia.

A notable health informatics authority, Dr. Hung holds several U.S. patents for establishing a framework to improve the security of health records, and developing a model to assess the competency of healthcare students and practitioners. He earned his Bachelor of Science in Computer Science from the University of New South Wales in Sydney, Australia in 1993; and received his Master of Philosophy and his Doctor of Philosophy in Computer Science from the Hong Kong University of Science and Technology, in 1995 and 2001, respectively. To gain cross-disciplinary status, Dr. Hung completed his Master of Applied Science in Management Sciences at the University of Waterloo in 2002.

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## **Industry Expertise**

Education/Learning, Public Safety, Information Technology and Services, Computer Networking, Computer Software, Social Media, Computer/Network Security, Research

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## **Topics**

Computer Science, Information Systems, Information Security, Health Informatics, Mobile Services for Toy Computing, Toy Computing, Smart Toys

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## **Affiliations**

Institute of Electrical and Electronics Engineers, National Taipei University of Technology

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## **Past Talks**

**An Overview of Security and Privacy Issues: Bring Your Own Device (BYOD)**

Nanjing University of Finance & Economics

**Safety Enforcement Framework for Bring Your Own Device in Service-Oriented Architecture: Research Issues**

University of Aizu

**Soft Systems Methodology: From Services-Oriented Architecture to Big Data Analytics**

Invited Speaker, Boeing Research & Development, Boeing Corporation

**Software Engineering Security, and IT Job Market in North America and Hong Kong**

Invited Speaker, Computer Engineering Department, Faculty of Engineering, Mahidol University

**Services-Oriented Architecture (SOA): A Case Study in Healthcare Applications**

Keynote Speaker at the 3rd Brazilian Conference on Software: Theory and Practice

**Evidence-Based Technology: Case Studies and Interactions**

Keynote Speaker at the Seventh IEEE International Conference on Digital Information Management

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## **Education**

**University of Waterloo**

MASc Management Sciences

**Hong Kong University of Science and Technology**

PhD Computer Science

**Hong Kong University of Science and Technology**

MPhil Computer Science

**University of New South Wales**

BSc Computer Science

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## **Accomplishments**

**Honorary International Chair Professor, Department of Electronic Engineering, National Taipei University of Technology**

A proponent for creating collaborative international education, Dr. Hung was appointed to one of Taiwan's oldest universities.

**Visiting Professor, School of Arts, Sciences and Humanities, University of São Paulo, Brazil**

The largest and most prestigious Brazilian university, it ranks among the world's best according to the Times Higher Education World University Rankings.

**Treasurer and Executive Committee Member, IEEE Computer Society**

Appointed to the society's Technical Steering Committee for Services Computing, a multi-disciplinary group tasked with advancing and coordinating work in the field of Services Computing carried out throughout the IEEE in scientific, engineering, standard, literary and educational areas.

**Editorial Board Member, International Journal of Big Data Intelligence (IJBDI)**

Issued quarterly by Inderscience Publishers, IJBDI provides a vehicle for disseminating the latest work in big data research, development and applications.

**Executive Group Member and Coordinating Editor, Information Systems Frontiers**

Published bimonthly, this journal examines new research and development at the interface of information systems and information technology; takes a multidisciplinary approach drawing from computer science, telecommunications, operations research, economics, and cognitive sciences; and serves as a common forum for frontline industrial developments as well as pioneering academic research.

**Associate Editor, International Journal of Systems and Service-Oriented Engineering (IJSSOE)**

Published quarterly, the IJSSOE provides a forum for researchers, academicians, and practitioners to advance the practice and understanding of contemporary theories and empirical analysis in the perspective of systems engineering in achieving service excellence under the current globalized service-oriented economy.

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