

APDM 2017 Program

20 August, 2017

Building 80 (Swanston Academic Building) at RMIT University City Campus.

Address: 80/445 Swanston St, Melbourne VIC 3000

Workshop #: WS-36

ROOM: 80.07.06

	August 20, 2017
08:30-08:50	Registration
08:50-09:00	Opening
09:00-10:00	Keynote Speech Professor Elizabeth Chang, IEEE Fellow
10:00-10:30	Coffee Break
10:30-12:30	Network Traffic Analysis via Alternating Direction Method of Multipliers Liangfu Lu, Zhenghai Huang, Xuyun Zhang, Sicong Chen and Yao Wu Techniques for Sensitive Pattern Hiding based on Spark Parallel Computing Framework Udit Sharma, Durga Toshniwal and Manoj Misra VENUS: Distributed Message-oriented Middleware towards Heterogeneous Database Synchronization Bi Li, Rong Yang, Peng Zhang and Shu Li Learning from Historical Queries for Fine-grained k-Anonymity Location Privacy Preservation Hongtao Wang, Chunxiang Li and Hongmei Wang
12:30-14:00	Lunch
14:00-15:30	MRAQ: A Memory-Based Real-time Aggregation Query System Peng Zhang, Shu Li, Junpeng Liu, Rong Yang and Qingyu Liu Evaluating the Performance of Privacy Protection under Randomized Multiple Response Technique Based on Maximum Separation of Clusters Chi Tim Ng, Ho-Chun Song and Myunghwan Na Privacy Preserving Face Retrieval in the Cloud for Mobile Users Xin Jin, Shiming Ge and Chenggen Song
15:30-15:40	Closing

APDM 2017 Keynote

Establishing a Strong Data Governance and Data Stewardship Framework for Distributed Management of Data Abuse and Data Spills

Abstract: In this talk, Professor Chang will introduce a Data Governance Model and Data Stewardship framework including policy, process, function and services. She then introduces federated and centralised data management methods and the emerging approach to distributed control of data abuse and data spills. This is followed by the illustration of plan, manage and execution of data security, and the discussion on the importance of providing trusted, credible, traceable and accurate information at the point of need is critical for enterprise wide business intelligence and decision making.

About Speaker



Professor Elizabeth Chang is Professor of IT and Logistics Informatics and Canberra Fellow at the UNSW at the Australian Defence Force Academy (ADFA). She has been a full Professor in IT, Software Engineering and Transport Logistics for 14 years. She had been in senior positions in commercial corporations for 8 years. Her key research strength is in large complex system development methodologies, and she is also specialised in critical element of software systems, including trust, security, risk and privacy, and recent successful work on IoT, cyber physical systems and big data management. In the 2012 edition of MIS Quarterly vol. 36 issue 4 Special Issues on Business Research, Professor Chang was listed fifth in the world for researchers in Business Intelligence.

She has delivered over **50** Keynote/Plenary speeches largely at major IEEE Conferences and most recent in the area of Cognitive Decision Support Systems, big data management, IoT and the like. Her academic achievement includes **27** Competitive Research Grants including **12** Australian Research Council (ARC) grants worth over **\$15 million**. Between 2014-2016, she led the team awarded multiple Defence Related Research Contracts and 2 ARC grants and industry funds of over \$ 2 million dollars in cash. She has supervised/co-supervised **42 PhD** theses to completion, **21 Master** theses and **18 post-docs**. She has published 6 authored books, over 150 international journal papers and 400+ refereed conference papers with an H-Index of 45 (Google Scholar) and over 10,000 citations.

She is an IEEE Fellow and has been Chair/Co-Chair for IEEE IES Technical Committee on Industrial Informatics since 2010. She is also the Chair for the IFIP International Working Group 2.1/12.4 since 2012 on Web Semantics. She is also an Associate Editor for IEEE Transactions on Industrial Electronics (since 2007) and Guest Editor on IEEE Transactions on Industrial Informatics (since 2005), Co-editor in chief for International Journal on Engineering Intelligent Systems. She is a member of Council of Supply Chain Management Professionals, honorary member of the Australian Logistics and Supply Chain Society.