

## Department of Computer Science 25<sup>th</sup> Anniversary

# Distinguished Lecture Series



### Prof. Joseph Tan

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McMaster University

## Mapping the Next Generation Human Health on a Global Scale: Eight e-Health Mega-Themes & Trends

December 17, 2013 (Tue) 2:30pm

WLB 211, Wing Lung Bank Building, Shaw Campus, HKBU

**Abstract:** Electronic Health (e-Health) is evolving to impact critically on the future landscape of human health along a global scale. With the continuing meltdown of the global economy and the urgency of maintaining the existence of the human race, a viable cost-effective solution to mitigate the increasing needs for quality and cost-effective global healthcare services delivery is urgently being sought. E-Health not only provides a significant advantage over wasteful, poorly coordinated and expensive conventional medical procedures, but also holds the potential for leveling the playing fields in terms of delivering care where it may be most critically needed, especially for the underserved populations. Understanding the e-Health mega-themes and trends is therefore a critical step towards identifying the various roles that could or should be played by policymakers, vendors, scientists, care professionals and even patients in this age of information and knowledge explosion to evolve e-Health 2.0. This talk overviews the prevailing e-Health mega-themes and trends. Starting with the major reference disciplines contributing to the evolution of e-Health, the talk will survey current developments, provide insights on new opportunities and ongoing challenges arising from these various e-Health mega-themes and trends. In contrast to the centuries old traditional practice of conventional medicine, the discussion will offer the audience important directions and insights related to the next phase research, developments and practices of the various e-Health subthemes and trends. Among other things, these themes include knowledge translating lean principles into healthcare, articulating the meaningful use perspective, envisioning the power of an interoperable ICT infrastructure for e-Health systems, incorporating the design of intelligent and appealing interfaces, deploying emerging m-Health & cloud-based strategy, understanding the influence of social media, and debating on the value of personalized medicine. While identifying the different e-Health mega-themes and trends, I will also attempt to provide critical thoughts and lessons gleaned from a few ongoing studies conducted at McMaster University and elsewhere. Finally, the talk will conclude with the observation that regardless of how e-Health 2.0 evolve, it will still be limited within the confines of regulatory policies, sustainable e-Health paradigm, the challenge of interoperability, standards, privacy, security, socio-political, legal and ethical concerns.

**Biography:** Joseph Tan, Dip (Civil Engr.), BS (Math & Comp. Sc.), MA (Ind. & Mgmt Engr.), and PhD (MIS) is Wayne C Fox Chair of eBusiness Innovation and Professor of eHealth Informatics, DeGroote School of Business, McMaster University. Prior to joining McMaster, he was Associate Professor and Acting Director of the MHA program, Department of Healthcare & Epidemiology, UBC Faculty of Medicine, Adjunct Faculty at the UVic School of Health Informatics, Research Fellow at BCIT Technology Center, and Professor & Chair of the ISM Department, SBA, Wayne State University, USA. Professor Tan is the founding and ongoing Editor-in-Chief, IJHISI and has served as distinguished faculty, invited speaker, panel moderator, research fellow and keynote for numerous local as well as major national and international conferences across North America, Asia, Middle East and Africa. Professor Tan has also been named as among the "top 10 most influential informatics professors" on HealthTechTopia website, invited to publish in the scientific journal, Nature, and sits on multiple peer-review federal grant agencies and journal editorial boards. He has a professional background that spans a broad spectrum of interdisciplinary and trans-disciplinary research area. A lead investigator in redefining the frontiers of multidisciplinary Business and Health IT knowledge development, management and expansion, including active involvement in collaborative research and multidisciplinary joint-grant submissions, Dr. Tan has demonstrated skills and ability to serve in both academia and industry. Dr. Tan has been widely cited among various academic research communities, is among best-selling authors of scholarly books in health IT/IS areas, and has achieved recognized scholarship in teaching and learning with students' nominations for teaching excellence awards. His overall career focus is on reshaping the landscape of IS/IT applications and promotion in e-Health informatics through cross-disciplinary thinking/project partnering with diverse practitioners, clinicians, researchers, and a variety of user communities.

### Enquiry

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