Seminar on "Internet of Things (IoT)"
「物聯網趨勢」研討會

Date 日期	:	15/4/2014 (Tuesday 星期二)
Time 時間	:	2:30pm – 4pm
Venue 地點	:	Seminar Room, Halls 5F&G, Hong Kong Convention & Exhibition Centre 香港會議展覽中心 展覽廳 5FG 研討室
Language 語言	:	English with simultaneous interpretation in Putonghua 英語（附設普通話即時傳繹服務）
Organisers 主辦機構	:	Hong Kong Trade Development Council, Federation of Hong Kong Industries & Hong Kong Electronics Industry Council 香港貿易發展局，香港工業總會 及 香港電子業總會
Co-organisers 協辦機構	:	The Hong Kong Electronic Industries Association & Hong Kong Electronics & Technologies Association 香港電子業商會 及 香港電子科技商會

Time 時間	Programme 流程
2:15pm – 2:30pm	Registration 登記
2:30pm – 2:35pm	**Welcoming Remarks** by Dr CH Ng, Chairman, Hong Kong Electronics Industry Council
2:35pm – 2:55pm	**Individual Presentation (1): Connectivity for the Internet-of-Things** **Speaker:** Prof Ross Murch, Chair Professor & Department Head of Electronic and Computer Engineering, Hong Kong University of Science & Technology 香港科技大學電子及計算機工程學系講座教授兼系主任
2:55pm – 3:15pm	**Individual Presentation (2): Unlock Insights by Embracing Big Data Analysis** **Speaker:** Dr YAN Shi Xing, Program Director at HP Labs, Singapore 惠普新加坡實驗室項目總監 Dr Yan Shi Xing
3:15pm – 3:35pm	**Individual Presentation (3): Smart Living** **Speaker:** Dr Allen Wong, Senior Vice President of Products, PCCW-HKT Consumer Group 電訊盈科有限公司個人客戶業務產品開發及管理高級副總裁 黃一川博士
3:35pm – 4pm	**Panel Discussion and Q&A Session** **Moderator:** Mr Steve Chuang Vice Chairman, Hong Kong Electronics Industry Council

Remarks 備註:

Free admission. Seats are granted on a first-come-first-served basis. 免費入場。座位有限，先到先得。
Trade only and persons under 18 will not be admitted. 只接待 18 歲或以上業內人士進場。
The Organiser reserves the right to make any changes without prior notice. 主辦機構保留任何更改之權利而不作另行通告。

Connectivity for the Internet-of-Things

Prof Ross Murch, Hong Kong University of Science and Technology

Abstract:

The internet-of-things (IoT) promises the connection of machines, sensors and objects to the internet so that they can become a seamless part of our information network. Wireless sensor networks, Intelligent Transport Systems, RFID and health monitoring can all loosely be considered examples of possible applications or parts of an IoT. In short IoT is predicted to bring a revolution in the way we monitor systems and therefore allow enhancements in efficiency, performance and services to those systems. There are many challenges in enabling this revolution and in this talk we consider the issue of connectivity. While there are several competing solutions and potential standards it is unlikely no single standard can handle all IoT applications. Therefore we will discuss connectivity solutions in terms of tradeoffs including those among power, range, reliability, mobility, scalability, cost and bit rate. In fact one of the hallmarks of IoT is the variety of applications and therefore understanding tradeoffs among different connectivity approaches is vital in deciding which approach is best for a particular application. To round out the presentation a brief introduction of projects related to IoT at the University of Science and Technology will also be provided.

Biography:

Ross D Murch is a Chair Professor and Department Head of Electronic and Computer Engineering at the Hong Kong University of Science and Technology (HKUST). He is a consultant for industry and government and is also the founding and current Director of the Center for Wireless Information Technology, HKUST. In July 2005, he was invited to the School of Engineering Science, Simon Fraser University, Canada, as the David Bensted Fellow and in July 2004, he visited Southampton University, UK, as an HKTIIT fellow. His current research interests include wireless communication systems with a focus on multiple input multiple output (MIMO) wireless systems, MIMO antenna design and the Internet-of-Things. His wireless research contributions include more than 200 publications and 20 patents on MIMO systems and antennas, OFDM, propagation, and broadband wireless systems, and these have attracted over 8000 citations. Dr Murch is the Chair of the Wireless Communications Technical Committee in IEEE Communications Society, was the Publication Editor for the IEEE TRANSACTIONS ON WIRELESS COMMUNICATIONS and was the Technical Program Chair for the IEEE Wireless Communications and Networking Conference in 2007, Keynote Chair for IEEE International Conference on Communications in 2010, and also the Advanced Wireless Communications Systems Symposium in IEEE International Communications Conference in 2002. He was also a keynote speaker at IEEE GCC 2007, IEEE WiCOM 2007, IEEE APWC 2008, and IEEE ICCT 2011. He was elevated to IEEE Fellow in 2009 for his contributions to multiple antenna systems for wireless communications. He was elected to IEEE Fellow in 2009 and IET Fellow and HKIE Fellow in 2013. He received the Bachelor's and Ph.D. degrees in electrical and electronic engineering from the University of Canterbury, New Zealand.

Unlock Insights by Embracing Big Data Analytics

Dr YAN Shi Xing

Abstract:

Nowadays billions of devices are connected to the Internet. These devices can be tracked, gather and process information, or provide a service — all while seamlessly interacting with other data.

The mountains of data generated by different devices have limited usability due to data formats, access, mismatched data sets and difficult linkages. How to derive the insight from all types of the information becomes a big challenge. In this talk we will discuss how to make big data analytics more accessible for users in the era of IoT.

Biography:

Dr YAN Shi Xing is a Program Director at HP Labs Singapore, the central research arm of Hewlett-Packard Company. He is leading the research projects at HP Labs Singapore in the areas of big data analytics and cloud management. His research has contributed to a number of research publications, US patents, and technology transfer to HP products. Dr Yan is a senior member of IEEE and also a member of Working Group on Cloud Computing Interoperability Standards, Expert Group on Cloud Computing Services and Standards for Hong Kong Government.

Smart Living

Dr Allen Wong, Senior Vice President of Products, PCCW-HKT Consumer Group

Abstract:

The speaker will talk about the trends and technologies of Smart Living with smart devices applications.

Biography :

Dr Allen Wong is the Senior Vice President of Products, PCCW-HKT Consumer Group, responsible for product development and management that serves residential consumer market. This includes, 'eye' multimedia service for fixed-line, Smart Living services, HKT education e-Learning solution and Netvigator Fiber-to-the-Home (FTTH) broadband services. Allen is also one of the founders and technology inventors of "nowTV" IPTV platform.

Allen has over 20 years of R&D Engineering experience in Broadband Internet and Video Technologies over different kind of physical media such as Cable, Satellite, xDSL, Fiber and Wireless. Prior joining PCCW Ltd in 2001, Allen has held several senior technical sales positions in 3Com Asia Pacific Ltd, Harmonics Inc, LSI Logic, C-Cube Micro-system and AS Watson Group (A Hutchison Whampoa Company). Allen holds a PhD degree in Opto-electronics Engineering from University of Bath, UK and BSc (First Class Honours) in Electronic and Electrical Engineering from the same university.