Internet of Things (IoT) Symposium -
Enabling Hong Kong as a Smart City
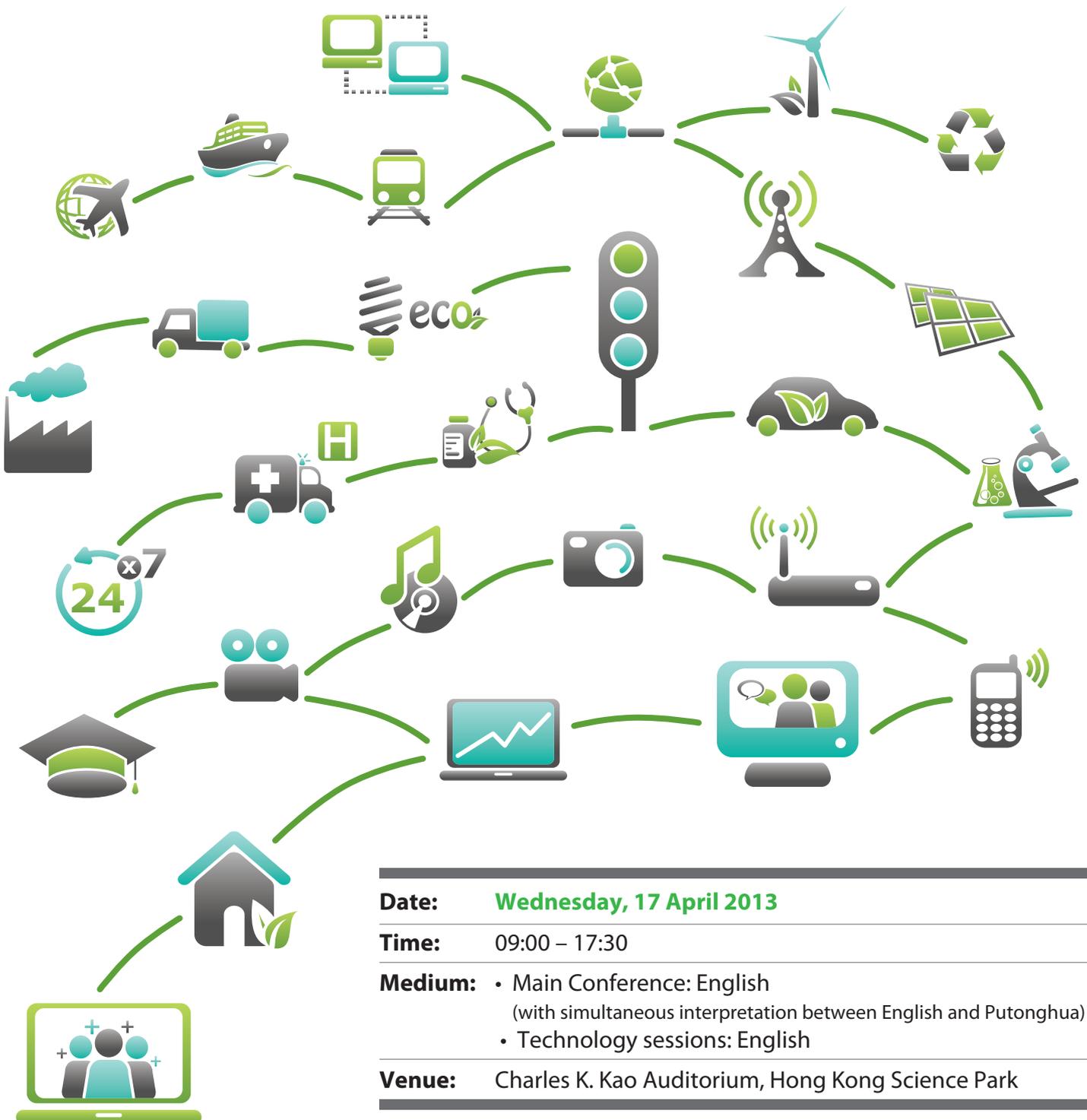
Date:	**Wednesday, 17 April 2013**
Time:	09:00 – 17:30
Medium:	• Main Conference: English (with simultaneous interpretation between English and Putonghua) • Technology sessions: English
Venue:	Charles K. Kao Auditorium, Hong Kong Science Park

Co-organisers

ASTRI

GS1
Hong Kong

LSCM
Hong Kong R&D Centre for Logistics and
Supply Chain Management Enabling Technologies
香港物流及供應鏈管理應用技術研發中心

IoT Symposium 2013

The adoption of the Internet of Things is advancing. It is the integration of information and communications technologies and decision analysis. It helps to enhance areas such as logistics, healthcare, transportation, food safety, home automation, etc. for the benefit of our daily life.

Now it is the time for executives across all industries to structure their thoughts about the potential impact and opportunities likely to emerge from the underlying technologies of IoT. It is estimated that the IoT will involve 50 billion connected devices in 2020*.

The Symposium, which is one of the IT Fest events, aims at promoting the development and application of IoT in Hong Kong, overseas and Mainland China, linking user experience with business application, and fostering collaboration and interaction of technology and its application between technology partners and commercial sectors.

The full-day programme will feature speakers from Chinese government authority, commercial and research institutes for a series of keynote presentations in the morning and 3 parallel tracks to cover related technology, industry solutions and applications in vertical market in the afternoon.

Estimation by Intel and Cisco.

Programme Rundown - Morning Session (09:00 - 13:00)   Venue: Charles K. Kao Auditorium

Time	Programme
09:00	**Welcome Remarks** Mr. Nicholas Brooke, SBS, JP Chairman, Hong Kong Science and Technology Parks Corporation
09:05	**Speech by Guest of Honour** Mr Gregory SO Kam-leung, GBS, JP Secretary for Commerce and Economic Development , Commerce and Economic Development Bureau The Government of the Hong Kong Special Administrative Region
09:10	**Speech by Guest of Honour** Miss Qin Xiaoming, State Department Counsellor, China
09:20	**Opening Ceremony of Hong Kong Internet of Things Centre of Excellence**
09:30	**IoT in China : Policy and Market** Senior Government Official, Ministry of Information and Information Technology, China
10:00	**IoT in China – Technology and Application** Mr. Ye Tian Chun , Director of China Research and Development Centre of IoT, China
10:30	**Coffee Break**
11:00	**Global IoT Market Trend** Mr. Claus Mortensen, Director, Emerging Technology Research, IDC Asia/Pacific
11:20	**LTE & Beyond 4G Technology for Internet of Things** Dr. Justin Chuang, Vice President and Group Director, Communications Technologies Group Hong Kong Applied Science and Technology Research Institute (ASTRI)
11:40	**Innovative Solution for IoT System** Mr. Ling Shao, Chief Architect of Wireless and Internet-of-Things and Distinguished Engineer in IBM Research – China
12:00	**Internet of Things – Turning Data into Insight** Mr. Alan Chan, National Technology Officer, Microsoft Hong Kong Limited
12:20	**IoT in Business Connectivity** Ms. Anna Li, Chief Executive, GS1 Hong Kong

Programme Rundown - Parallel Technology Tracks (14:00 - 17:00)

Topic/ Time	Track 1 - Technology (Chaired by ASTRI) Venue:	Track 2 – IoT Industry Solution (Chaired by LSCM) Venue:	Track 3 – IoT Applications for Corporate Users (Chaired by GS1) Venue:
14:00	**Welcome Remarks** **Dr. Justin Chuang**, Vice President and Group Director, Communications Technologies Group, ASTRI	**Welcome Remarks** **Mr. Simon Wong, Chief Executive Officer** Chief Executive Officer, LSCM R&D Centre	**Welcome Remarks** **Mr. Raymond Ng**, Chief Operating Officer, GS1 Hong Kong
1	**14:10 Wireless Sensor Network** **Mr. Corbett Rowell**, R&D Director, Communications Technologies Group, ASTRI	**14:05 Retail Technologies that Enable Shopping Fun and Safe** **Dr. Frank Tong**, Director, Research & Technology Development, LSCM R & D Centre	**14:10 Hong Kong RFID Awards Program 2013 Briefing**
2	**14:30 Essential Building-blocks to Simplify the IoT** **Mr. Dominique Cyne**, Vice President Engineering, Sierra Wireless	**14:30 IoT Sensing and Traceability for Logistics Management and Facility Monitoring** **Prof. Cheng Chun Hung**, Associate Professor, Department of Systems Engineering and Engineering Management, The Chinese University of Hong Kong	**14:35 RFID Tank Management & Traffic Control System** **Mr. Alfred Liu**, Assistant Manager, Demand and Operations Planning, Swire Coca-Cola HK Ltd.
3	**14:50 ICs for Sensing and NFC** **Mr. David Kwong**, Vice President and R&D Director, IC Design Group, ASTRI	**15:00 IoT and Enterprise Mobility** **Mr. Anson Cheung**, Software Development Manager, Schmidt & Co. (Hong Kong) Ltd.	**15:00 RFID Based Apparel Management Experts** **Dr. Calvin W.K. Wong**, Associate Professor, Institute of Textiles & Clothing, The Hong Kong Polytechnic University
4	**15:10 Overview of NFC Device Testing** **Mr. Nick Tang**, Regional Training Manager, Rohde & Schwarz Hong Kong Limited		
15:00	**Tea break / Visit to Hong Kong Internet of Things Centre of Excellence**		
5	**16:00 Low-power UHF RFID Reader with Antenna Integrated in an Ultra-Small Package for Smart Phone** **Mr. Steve He**, Senior Manager, Material & Packaging Technologies Group, ASTRI	**16:00 IoT in Cloud** **Prof. Waiman Cheung**, Chairman, Department of Decision Sciences and Managerial Economics, The Chinese University of Hong Kong	**16:00 RFID Real time Production Line Monitoring System** **Mr. Simon Leung**, Director, Global Information Strategy and Solution Department, Leo Paper Group (HK) Ltd.
6	**16:20 Sensor Network Gateway for Internet of Things** **Dr. Billy Chan**, Principal Engineer, Communications Technologies Group, ASTRI	**16:30 IoT Application for Wine Industry** **Mr. Newman Chow**, General Manager, Auto-ID Technology Ltd.	**16:20 ID^2 Tracer** **Mr. Harold Yip**, Director, Secure Information Disposal Services Ltd.
7	**16:40 Intelligent Cloud Security Computation for Big Data Applications** **Dr. James Lei**, Director, Enterprise & Consumer Electronics Group, ASTRI	**17:00 Green and Low Cost RFID Tags for IoT** **Dr. Terry Ye**, Director, Research & Technology Development, LSCM R & D Centre	**16:40 Visit to Hong Kong Internet of Things Centre of Excellence**
8	**17:00 Panel Discussion** **Dr. Justin Chuang**, Vice President and Group Director, Communications Technologies Group, ASTRI		

Mr. Claus Mortensen

Director
Emerging Technology Research, IDC Asia/Pacific

Claus Mortensen is the Director of IDC's Asia/Pacific Emerging Technology Advisory Services program. Based in Hong Kong, he leads a team of analysts to analyze emerging technologies and trends in the region.

As a founding member of IDC's Emerging Technologies Council, Claus' main focus is to identify "The Next Big Thing" in the ICT space and to explore the impact of Cloud Computing, Web 2.0, and New Media in the Asian marketplace. He was previously the Research Manager of IDC's Asia/Pacific Telecommunications research program with more than eight years of experience in the area.

Prior to joining IDC, Claus had extensive telecommunications research experience working as an analyst for Informa Telecoms Group. Before becoming a Telecoms Analyst, Claus was a Legal Officer with the Danish telecoms regulator.

Mr. Justin Chuang

Vice President and Group Director,
Communications Technologies, ASTRI

Dr Justin Chuang joined ASTRI in December 2011 with nearly three decades of experiences in research, teaching, development and engineering in communications technologies. He received B.Sc. in Electrical Engineering from National Taiwan University in 1977, and M.Sc. and Ph.D., also in Electrical Engineering, from Michigan State University in 1980 and 1983 respectively. He was elected an IEEE Fellow in 1997. Dr Chuang has held various positions in several multinational corporations including Broadcom Corporation, AT&T, Telcordia Technologies, and General Electric. Furthermore, he has also served as Professor in the Department of Electrical and Electronic Engineering of the Hong Kong University of Science and Technology (HKUST) from 1993 to 1996. Dr Chuang is experienced in taking research through engineering to commercialization for wireless and cellular systems, from chip sets to platform solutions. In 2001 he started his career in development and engineering in the IC industry, which is crucial in bringing wireless services to affordable consumer units, first as the Chief Scientist of Mobilink Telecom and later with Broadcom following its acquisition of Mobilink in 2002. Prior to joining ASTRI, Dr Chuang was Senior Director of Broadcom. During this decade, his team was responsible for providing modem software and platform supports for Broadcom's mobile communications chipsets from its inception.
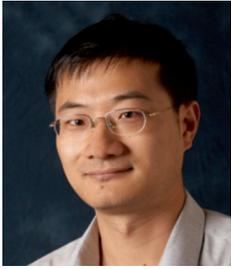
Mr. Ling Shao

Distinguished Engineer and Chief Architect of Wireless and Internet-of-Things
IBM Research - China

Ling Shao (邵凌), Distinguished Engineer and Chief Architect of Wireless and Internet-of-Thing in IBM Research - China. His major research focus is applying multi-core technology to networking system, next generation wireless system, networking and system architecture of a complex Internet-of-Thing system. His recent works include develop software-defined-radio system on IT server and IT cloud; develop optimized wireless system for machine-to-machine type communication for mission critical industry like energy & utility, and oil & gas.

He is now a member of IBM academy of technology. He has published about 20 papers in international conferences and has more than 20 filed patents. He got his bachelor and master degree from Fudan University, China in 1997 and 2000 and joined IBM in 2000.

Mr. Alan Chan

National Technology Officer
Microsoft Hong Kong Limited

As National Technology Officer at Microsoft Hong Kong, Alan supports policy decision and delivers technologically relevant and scalable solutions into Hong Kong market. His main objectives are to align IT value propositions to public policies in such areas as healthcare, education, the environment, and local social and economic development; and to promote a digital agenda in top policy areas, including innovation, security and privacy, technology neutrality, accessibility, and interoperability. Before joining Microsoft, Alan had more than 10 years of IT experience in various multi-national and local companies. Alan graduated from the University of Hong Kong with a Bachelor of Engineering degree.

Ms. Anna Lin, JP

Chief Executive
GS1 Hong Kong

Anna Lin, JP is the Chief Executive of GS1 Hong Kong since 1989. In this capacity, Ms. Lin leads the organization in driving the industry's adoption of global supply chain standards, technologies and practices for better business efficiency and competency.

Ms. Lin holds a number of civic appointments in various HKSAR Government's committees including Logistics Development Council, Hong Kong-Taiwan Business Cooperation Committee, Trade and Industry Advisory Board as well as Task Force on Industry Facilitation.
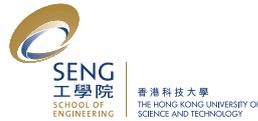
In the industry arena, Ms. Lin sits on various professional committees including Hong Kong Trade Development Council's Logistics Services Advisory Committee, Li & Fung Institute of Supply Chain Management & Logistics, and Efficient Consumer Response Asia Pacific Council.

Ms. Lin is a Hong Kong native. She holds an MBA degree in Strategic Management from the Birmingham University of UK.

List of Supporting Orgnisations

Academic Institutions

College of
Science and Engineering,
City University of
Hong Kong

THE HONG KONG
POLYTECHNIC UNIVERSITY
香港理工大學
FACULTY OF ENGINEERING
工程學院

SENG
工學院
SCHOOL OF
ENGINEERING
香港科技大學
THE HONG KONG UNIVERSITY OF
SCIENCE AND TECHNOLOGY

Faculty of Engineering
THE UNIVERSITY OF HONG KONG

Industry/Trade Associations

商廠
香港中華廠商聯合會
The Chinese Manufacturers'
Association of Hong Kong

香港工業總會
FHKI Federation of
Hong Kong Industries

HKGCC
Hong Kong General Chamber of Commerce
香港總商會 1861

Guangdong
"Internet-of-Things"/
RFID Technology
Service Center
(Logo??)

HONG KONG
COMPUTER SOCIETY
IT Shapes the Future

CYBERPORT
數碼港

香港電子業商會
The Hong Kong Electronic Industries Association

HKITF

HONG KONG LOGISTICS ASSOCIATION
香 港 物 流 協 會

HKPC

HKQAA
HONG KONG QUALITY ASSURANCE AGENCY
香 港 品 質 保 證 局

HKSiA
香 港 軟 件 行 業 協 會

HKTDC
香 港 貿 發 局

Internet Society
Hong Kong 香港互聯網協會

HK⼯E
THE HONG KONG
INSTITUTION OF ENGINEERS
香 港 工 程 師 學 會
Information Technology Division
資訊科技分部

中关村
ZHONGGUANCUN SCIENCE PARK
Z-Park

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Printed in 04/2013