

bSHK

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THE HONG KONG
POLYTECHNIC UNIVERSITY
香港理工大學



Department of Building Services Engineering
屋宇設備工程學系

ORGANISERS

bSHK 2019 Conference

The Next Phase in BIM Revolution -
Smart Technology in Digital Construction

24.04.2019 (Wed) // 2:00-5:00 pm (1:30pm Registration)
Chiang Chen Studio Theatre, The Hong Kong Polytechnic University
CPD Certificate will be rewarded to participants
Ticket Fee \$300 HKD For Member // \$500 HKD For Non-Member

For any enquiries, please feel free to contact Ms Venus Yeung
at +852 2156 2387 or email info@buildingsmart.org.hk

About bSHK

bSHK was established in 2013 and its initial focus is to promote BIM in the construction industry of HK. As the rapid technological advancement and the changing government policy, bSHK activated its repositioning process that aims to go beyond BIM and step over the frontier of HK. The transformation covers a wider spectrum of emerging smart technologies that contribute to the digital construction of the Smart City in HK as well as the integrated economic and business hub in the Greater Bay Area. bSHK members are expected to be the forerunners in the construction market as a result of this strategic repositioning.

Opening Speech - Revolutions



Mr. David Yau
Chairman of bSHK

A warm welcome to everyone,

bSHK was one of the buildingSMART International (bSI) member companies when it was first established in April 2013, until we left in 2017. Now, with multiple global BIM standards set up to promote BIM development, we need to keep abreast of these. However, with the rapid emerging internet technology such as big data, Artificial Intelligence (AI), Internet of Things (IOT) technology and Smart City emphasis, the challenge of BIM development has evolved beyond the standards. We need to adopt the use of the Internet and new technologies to improve the efficiency of the building and construction industries.

In this day and age, the property developer that I work for has already adopted 5D BIM as a standard provision for property development for several years. But that is only just a start. I met with a fitting out company who can design all the interiors with BIM and at a touch of a button, all the parametric details are sorted into orders for different factories for delivery to site for assembly.

With AI and IOT used in property management, it means that with facial recognition, a resident returning home can be greeted appropriately by the guards and keep the premises secure. In the future, we have no guards but an AI at the gate. Our malls use BOM and any customer walking in can be recognised and their favourite shops alerted that their VIP is coming (if they so allow).

So the world is changing and we must be ready to change with it or be left behind.

Thank you.

For further information and registration:



Online registration form

[Register Now](#)



bSHK Webpage

Please remit the payment to our account within 5 days after online registration and send your receipt copy to info@buildingsmart.org.hk after payment

Account Name: BUILDINGSMART INTERNATIONAL (HK) LTD

Account Bank: Bank of East Asia

Account Number: 015-251-68-00003-5



Conference Speakers



Dr. Jung In, KIM

Assistant Professor of Department of Architecture and Civil Engineering,
City University of Hong Kong

Speech Topic: Recent Research Achievements in the implementation of Virtual Design and Construction (VDC)

In this presentation, Dr. Jung In Kim will introduce several recent research achievements in the implementation of Virtual Design and Construction (VDC). First, he will briefly explain a development methodology for as-built BIM by using unmanned aerial vehicle (UAV) commonly called drone and show two case studies (e.g., large-scale development and airport extension projects) using BIM-based decision-support systems. He will also introduce optimization methodologies for multiple disciplines (e.g., construction scheduling for tunnels and bridges, manufacturing for Built-up H-beam).

Dr. Albert Wong

Director, Public Sector Consulting of
PricewaterhouseCoopers Hong Kong (PWC HK)

Speech Topic: Spatial data to power smart city



One of the key success factors for successful smart city implementation is availability of spatial data for research, commercial and innovation purposes. Indeed, the Chief Executive has pledged to open more geospatial and geo-tagged data of the Government. The speaker will share with participants his views on the key elements of the Smart City Blueprint for Hong Kong, the need for having a Spatial Data Infrastructure in Hong Kong to support smart city implementation and some use cases of spatial data.



Mr. Elvis , Li Kwong

**CEO of isBIM Limited and Vice
Chairman of bSHK**

Speech Topic: PropTech, Our New Age

PropTech, the convergence of property and technology. It is a technology mainstream in 2018, the new phenomenon for digitalized enterprise. In this section, Mr Elvis Li will introduce the learning algorithms of Artificial Intelligence (AI) using Big data to generate analysis supported by statistics for business decisions and with the aid of Internet of Things (IoT), enterprise can create a comfort digitalized environment for greater convenience at work and to minimize waste under the new PropTech Age.

Mr Calvin Leung

**Marketing Director of Infineon Technologies,
Greater China**

**Speech Topic: Intuitive Sensing & A.I - Enabled Solution
For Smart Building**



Urbanization poses many challenges to city and community planning while aging population and resource shortage are taking place. However, smart city initiatives are providing efficient solutions to tackle these issues with artificial intelligence (A.I.)-enabled sensor solutions as urban population grows with diversified human behavior. Infineon Technologies will introduce their range of sensor and radar products in this session, the concept of smart building, and sensor-fusion applications enabled by AI for object-classification, people counting, and intrusion detection. Smart downlights and Smart Street Lampposts have been deployed at Hong Kong Science Park by Infineon to showcase their leading integrated technology in the areas of power management, LED control, radar and wireless connectivity, which will be discussed in this session.



Professor Shiu Keung, Tang

**Associate Head of Department of
Building Services Engineering,
The Hong Kong Polytechnic University**

Closing Remarks

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