

Technical Seminar

Advancing Smart Buildings with IoT and Digital Twins for a Sustainable Future

Registration

Date: 2nd Aug 2024 (Friday)

Time: 6:30PM – 8:00PM

**Venue: Chun Wo & Hsin Chong Room, 10/F, HKIE
HQ and online**

**Language: Cantonese with English terminology
and PPT**

Organized by: HKIE Electrical division



The convergence of IoT (Internet of Things) technologies and digital twins is revolutionising the way we plan, manage, and optimise our built environments, paving the way for the development of truly smart cities. In this presentation, we will explore how integrating IoT networks and digital twins can unlock opportunities for advancing facility management and environmental, social, and governance (ESG) initiatives in the urban landscape.

Digital twins serve as a powerful platform for simulating, monitoring, and optimising the performance of the built environment. Through the deployment of an extensive IoT network with real-time data streams from IoT sensors, buildings can establish a seamless flow of data, allowing for instant insights and AI-driven analytics to drive a wide range of smart building applications, from energy optimisation and security enhancement to personalised tenant services and intelligent visitor management.

This presentation will demonstrate how the synergy of IoT and digital twins can transform the way we design, build, and manage our urban environments, ushering in a new era of sustainable, responsive, and occupant-centric smart cities.

Speaker: Ir Billy Cheung

Ir Billy Cheung is the Sales & Service Director at ATAL Engineering Group. He holds a Master's degree in Electronic & Information Engineering from The Hong Kong Polytechnic University and a Bachelor's degree in Electronic and Communications Engineering from

Electrical Division

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The University of Hong Kong. He is a member of the Hong Kong Institution of Engineers (HKIE) in the Control, Automation & Instrumentation Discipline and Electronics Discipline. Billy is also a certified CEM professional and BEAM Pro (NB). In 2016, he obtained the LEED AP® qualification, and in 2017, he joined the Building Services Operation and Maintenance Executives Society (BSOMES). In the field of smart building, Billy was Accredited as a SmartScore and WiredScore Professional in 2023. Billy also became a Registered Energy Assessor (REA) from the Electrical and Mechanical Services Department (EMSD) in 2024. With his diverse professional qualifications and over two decades of experience in building services engineering, Billy is a recognised expert in intelligent and green building solutions.

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Registration

- ✓ This seminar will be held **Chun Wo & Hsin Chong Room, 10/F, HKIE HQ**
- ✓ Please register online at this link:



<https://forms.gle/M36F6DLrVeF5oEy87>

- ✓ Due to limited seats, the application will be accepted on a first-come first-served basis. Priority will be given to members of Electrical Division. Successful applicants will be notified 2 days before the seminar.
- ✓ The deadline for registration is 29 Jul 2024. Successful participants for the seminar will receive email notification by 31 Jul 2024.
- ✓ Any applicants not getting the confirmation email by 1 Aug 2024 are assumed unsuccessful.