

# WEBINAR

## IR4.0 and IOT - The Way Forward

### Collaboration between Electrical Engineering Technical Division and IET

The industrial revolutions have gone through four eras (Manual, Electrical, Automation/Internet, Intelligence) and we are in the 3rd and 4th eras aka IR 3.0 & 4.0. The Internet of Things (IoT) is a system of interrelated computing devices, mechanical and digital machines, objects, animals or people that are provided with unique identifiers and the ability to transfer data over a network without requiring human-to-human or human-to-computer interaction. IR4.0 and IOT (Internet of Things, encompassing both mobile and fixed internet) are inextricably intertwined, hence the questions raised are similar and related. Throw 5G into the mix and we are perhaps seeing the ultimate evolution of automation.

- Will robots replace our jobs?
- What are the barriers to IR 4.0?
- Is IOT at an inflection point?
- What is the business case for IR 4.0 and IOT?
- Will standards converge in a current world of seemingly disparate standards bodies?
- Where is Malaysia in IR 4.0 and IOT?

The talks will include a brief history of the industrial revolutions, the state-of-the-art technologies, the promise of the future and the challenges faced.

### SPEAKERS

#### **Ir. Dr Leong Wai Yie**

Ir. Dr. Leong Wai Yie received her PhD in Electrical Engineering from The University of Queensland (UQ), Brisbane, Australia in 2005. She has authored 6 book series and more than 100 papers that highlight the innovation on Electronics and Biomedical Signal Processing. Wai Yie is currently the Chairperson of The Institution of Engineering and Technology (Malaysia Local Network), the EXCOMM Member, Council Member of the Institution of Engineers Malaysia, Board of Directors of International Network of Women Engineers and Scientists, Women Engineers, and Committee Member of World Federation of Engineering Organisation (Women in Engineering Committee). She is specialized in medical signal processing and telecommunications research. She has been researching on RFID, wireless sensor networks, ultra-wideband and wireless communications, and on Brain Signal Processing for signal conditioning and classification in various EEG-based mental tasks. She has developed a gait analysis system and upperlimb tracking system. The novel bio-informatics technique has been commercialized and licensed to healthcare companies to extract important features on the biomedical signals.



#### **Mr. Cheng Boon Seng**

Cheng Boon Seng has been serving the Industry since 1995. His history of serving in various departments from technical to management, had made him gain valuable experiences and knowledge to shape him as a well-versed leader in the Industry. Having 25 years of working experience for and with various sized companies ranging from Multinational Companies (MnC), Limited Liability Companies (LLC) and also Small Medium Enterprise (SMEs), had gave him sufficient experience in the know-how of companies of all sizes. Mr. Cheng is currently leading a team of talents in serving as a solutions developer in Industry 4.0-related technologies. His passion in Industry 4.0 has turned him into an Industry 4.0 evangelist, and he will only continue to strive to improve to stay ahead of the curve.



Saturday | 27 June 2020 | 9.00AM – 11.00AM

Free admission for members | Register online