

Evening Talk on 'IoT Challenges on Asset Condition Monitoring Data Transmission'

Organised by Information and Communications Technology Special Interest Group, IEM
BEM Approved CPD/PDP Hours: 2 CPD Ref No: IEM17/HQ/385/T

Date: 5 October 2017, Thursday
Time: 5.30 pm to 7.30 pm (*Refreshments will be served at 5.00 pm*)
Venue: Wisma IEM, C&S Lecture Room, Second Floor AND TUS Lecture Room, Second Floor
Speaker: Dr. Lim Chin Hong

SYNOPSIS

IoT has become one of the most discussed technology solution, in both academia and industry applications: It has not only make research costs cheaper for academicians, but also driven companies to upgrade their existing equipment to improve their productivity, reliability and customer experiences. The prevalence of low-cost electronic devices like micro-controller, BLE, solar chargers etc, and scalable cloud platforms have catalyzed innovations solutions to resolve industrial challenges, which were claimed impossible or extremely costly before, for e.g. real-time movements of costal bridges, farming field PH and humidity levels monitoring etc. However, IoT is not a malleable piece of puzzle which fits in to all applications/industries without customization and innovations. This sharing focuses on technical challenges specifically in data transmission, for implementation of IoT in asset condition monitoring. A case study of real-time displacement monitoring of MRT tracks are shared to demonstrate innovative solutions to resolve challenges like data transmission lost due distance and blockages, transmission reliability and power optimization.

BIODATA OF SPEAKER

Dr. Lim Chin Hong attained his Master of Engineering in 2006 from Durham University, UK and also his Ph.D. in Thermodynamics Modelling at Durham University, UK in 2010 and have four-year industrial experience in Renewable Power Generation (or Wind) Industry in the UK. In 2011, he was invited by Photonics Research Centre, University of Malaya, to spearhead the commercialization initiative in 2012. Dr. Lim have setup and managed a spinoff company, from developing prototypes and products, i.e. Fiber Optics Sensors, to marketing in Tele-communication, Structural Health Monitoring and Food Processing Industries. Dr. Lim joint Taylor's University School of Engineering in July 2013 and spearheaded the Mechanical programme. He has received commercialization grant of RM148K from Cradle Sdn. Bhd., subsidiary of Minister of Finance for development of IoT solutions for structural health monitoring system. He also has attained research grant of RM46,000.00 from Taylors Research Grant Scheme (TRGS) in 2014 for research in solar stirling engines. Currently, Dr. Lim is the CEO of a structural monitoring company, Safe-T5 Sdn. Bhd. He has completed several real-time monitoring projects for condominiums, public service buildings and MRT tracks. His and his team have also recently development a comprehensive defect management system specifically for pre- and post- Dilapidation services and Qlassic.

Ir. Chai Chen Sing

Chairman,
Information and Communications Technology Special Interest Group, IEM

ANNOUNCEMENT TO NOTE

FEES

(Inclusive of 6% GST)
(Effective 1st October 2017)

IEM Members

- Registration Fee : FOC
- Administrative Fee :
Online : RM 15.00
Walk In: RM 20.00

Non-Members

- Registration Fee: **RM 50.00**
 - Administrative Fee: **RM 20.00**
- Limited seats are available on a "first come first served" basis (maximum 100 participants).
- To secure your seat, kindly register online at www.myiem.org.my

PERSONAL DATA PROTECTION ACT

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