



The Institution of Engineers, Malaysia

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Talk on "Industrial Robot Meet Industry 4.0"

Organised by the Consulting Engineering Special Interest Group, IEM
BEM Approved CPD/PDP Hours: 2 Ref no: IEM18/HQ/485/T

Date : 12th December 2018 (Wednesday)
Time : 5.30pm to 7.30pm (Refreshments will be served at 4.30pm)
Venue : Auditorium Malakoff, Ground Floor, Wisma IEM
Speaker : Ir. Dr. Tan Chee Fai

SYNOPSIS

The emerging technologies have changed the manufacturing environment in the fast pace. The emerging technologies, such as cloud computing, internet of things, wireless sensor network, big data, and mobile internet are starting to be implemented into manufacturing industries and it is believed to be approaching. The advances in science and technology continuously support the development of industrialization all over the world. From a technological evolution perspective, there are four stages commonly identified for the industrial revolution. The first three industrial revolutions took place in around two centuries, and are the result of, respectively: (1) the usage of wind, water and steam energy to power the machinery; (2) the introduction of electrical into manufacturing line for mass production; and (3) the use of automation technology for the manufacturing line. Due to the emergent of the fourth industrial revolution, many worldwide governments have initiated different national plan towards a new industrial revolution. For example, Advanced Manufacturing Partnership (United States), Industrie 4.0 (German), La Nouvelle France Industrielle (France), Future of Manufacturing (United Kingdom), Made in China 2025 (China), Innovation in Manufacturing 3.0 (Korea), and Smart Manufacturing (Netherlands). Robotic is one the main pillar for Industry 4.0. The demand for robotic systems has increased yearly due to various reasons such as high cost of labour, shortage of skilled labour and market competitiveness. In this talk, it will describe the innovation of robotic systems in the era of Industry 4.0.

BIODATA OF SPEAKER



Ir. Dr. Tan Chee Fai AMN has more than 18 years of experience in manufacturing industry. He is actively involved in strategic and technical consultation as well as research, design and development of smart systems. Currently, he is the Chief Technical Officer of Robolab Technology Sdn. Bhd. Ir. Dr. Tan is actively consult and assist manufacturing industry towards Industry 4.0 especially in relation to Intelligent Manufacturing: Robotic Systems, Big Data Analytics,

Artificial Intelligence and Cyber Security. Fraunhofer IEM is the technical partner institution of Robolab Technology Sdn. Bhd. He has led various Industry, University and Malaysia Government as well as International Funded Projects. He was invited as Keynote Speaker in various important international engineering events such as World Intelligent Manufacturing Summit (WIMS) at Nanjing, China, Intelligent Manufacturing Seminar on Collaboration to Boost the Economic Development of Belt and Road Areas, Parallel Session of the 20th Annual Meeting of China Association for Science and Technology and ICE-IEM Future Engineers Conference. He was the UNESCO Individual Specialist. Ir. Dr. Tan currently the Vice Chairman of SMI Sub-Committee, Federation of Malaysia Manufacturers Selangor Branch. Based on his contribution to engineering community, Ir. Dr. Tan is the JCI Ten Outstanding Young Malaysian Award Honoree in 2014.

Ir. Vignaeswaran Shanmuganathan
Chairman
Consulting Engineering Special Interest Group, IEM

ANNOUNCEMENT TO NOTE

FEES FOR TALKS

Members

Registration Fee
Free of Charge - FOC

Administrative Fee

Online - RM15.00
Walk In - RM20.00

Non-Members

Registration Fee:
RM50.00
Administrative Fee:
RM20.00

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

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