

## TALK ON “MALAYSIA READINESS TOWARDS WIRELESS 5G NETWORKS”

Organised by the Engineering Education Technical Division, IEM in collaboration with  
Engineers Australia Malaysia Chapter (EAMC), and Institute of Mechanical Engineers Malaysia Branch (IMechE)  
BEM Approved CPD/PDP: 2 hours Ref: IEM18/HQ/259/T

Date : **31 JULY 2018 (Tuesday)**  
Time : **5.30 p.m. – 7.30 p.m.**  
Venue : **C&S and TUS Lecturer Room, 2<sup>nd</sup> Floor Wisma IEM, Petaling Jaya, Selangor**  
Speaker : **Assoc. Prof. Ir. Dr. Rosdiadee Nordin**

### SYNOPSIS

Fifth Generation (5G) Wireless Network is expected to be ready by the year 2020. Olympic Games in Tokyo is chosen as a venue to showcase the 5G wireless technology to the world audience. 5G aims to offer higher spectral efficiencies by at least 12x, support sub 1 millisecond delay & massive Machine-to-Machine (M2M) connectivity. One of the potential technologies currently being developed is Massive-MIMO, where it is worked by spatially multiplex the wireless transmissions in a large number antennas. The talk aims to illustrate the benefit of Massive-MIMO and how it has been implemented in a real-time environment. The talk is based on the experience gained during speaker's research attachment in University of Bristol (UoB), United Kingdom, in which the UoB is currently holding the world records in wireless spectral efficiency from the Massive-MIMO prototype. The talk will be concluded with an interactive discussion on Malaysia readiness towards the adaptation of 5G technology.

### SPEAKER BIODATA



Rosdiadee Nordin is currently an associate professor in the Centre of Advanced Electronic and Communication Engineering at the Universiti Kebangsaan Malaysia. He is a corporate member of IEM, a registered Professional Engineer (PEng), a senior member of IEEE and the member of Young Scientists Network (YSN), under the purview of Academy Science of Malaysia (ASM). He received his bachelor degree from Universiti Kebangsaan Malaysia in 2001. After five (5) years

working experience with a telecommunication company, he decided to pursue a Ph.D. degree in Wireless Engineering at the UoB, United Kingdom. His current research includes Massive-MIMO and sensors-based wireless communications for the Internet of Things (IoT) applications. In 2017, he has completed his research attachment in the UoB related to 5G for smart city, co-sponsored by Royal Society (UK) and ASM, under the Newton-Ungku Omar Foundation.

**Ir. Assoc. Prof. Dr. Mandeep Singh**  
Chairman  
Engineering Education Technical Division  
Session 2017 / 2018

### ANNOUNCEMENT TO NOTE

#### FEES

(Effective 1<sup>st</sup> October 2017)

#### Members

Registration Fee :	NO CHARGE
Administrative Fee :	
<u>Online</u>	RM15
<u>Walk In</u>	RM20

#### Non-Members

Registration Fee :	RM50
Administrative Fee :	RM20

- 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](http://www.myiem.org.my)**

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