Webinar on Healthcare IoT
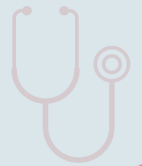## The Second Episode

IEEE Communication Society
eHealth Technical Committee: Special Interest Group on "IoT for eHealth"
and
Technical Committee Green Computing and Communications: Special Interest Group on "Pandemics

Prof. Subhas Mukhopadhyay
FIEEE (USA), *FIEE* (UK), *FIETE* (India)
Distinguished Lecturer – IEEE Sensors Council
School of Engineering, Macquarie University, NSW
2109, Australia

Prof. Tomoaki Ohtsuki (Otsuki)
FIEICE, SM *IEEE*
Distinguished Lecturer -- IEEE Vehicular Technology Society.
Department of Information and Computer Science, Keio
University, Yokohama, Japan

Title: **IoT Enabled Sensors for Health, Home and Environmental Monitoring**

Abstract: The advancement of sensing technologies, embedded systems, wireless communication technologies, nano-materials, and miniaturization makes it possible to develop IoT enabled smart sensing systems. IoT enabled wearable and non-wearable sensors monitor physiological parameters as well as human activities continuously to detect any abnormal and/or unforeseen situations which need immediate attention. Therefore, necessary help can be provided in times of dire need. IoT enabled sensors provides real time environmental data which will provide full awareness of weather/climate and can be used to take any strategic/corrective actions to address issues. This seminar will discuss fabrication and developmental works on IoT enabled sensors at Macquarie University based on MEMS as well as flexible materials for home, health and environmental monitoring.

Title: **AI-based Smart Healthcare**

Abstract: With the rapid aging society in developed countries particularly Japan, social costs for nursing care and medical expenses are also rising. Meanwhile, the size of the average family has continued to shrink, which results in the increase of elderly people living alone. Smart healthcare is expected to support the aging society where people can live healthily and peacefully while reducing the costs for support dramatically. To realize such a society, smart technologies are necessary. Now AI is becoming more and more important in smart healthcare as well. In this talk, we will introduce AI-based smart healthcare. We will also introduce some techniques to detect mental diseases.

Principal Host: **Prof. Sudip Misra, IIT Kharagpur, India**
Co-Host: **Dr. Arijit Roy, University of Luxembourg, Luxembourg**
Co-Host: **Dr. Ayan Mondal, Univ Rennes, INRIA, CNRS, IRISA, France**

More details can be found **here**
Date: **November 2, 2021**
Time: **10:30 AM – 12:00 Noon, Indian Time (IST)**

All participants need to pre-register by November 1, 2021 by filling-up the following form: Registration Link
Zoom sign-in details will be shared with the registered participants using the email address provided in the registration form.