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The Institution of Engineers, Malaysia

WEBINAR TALK ON

REVOLUTIONIZING CARDIOVASCULAR RISK DETECTION:
THE POWER OF EMERGING TECHNOLOGIES AND CONCEPTS

Organised by:
Engineering Education Technical Division, IEM

BEM Approved CPD: 2   Reference No: IEM23/HQ/535/T (w)

SPEAKER:
Ir. Ts. Dr. Denesh Sooriamoorthy

📅 **22 DECEMBER 2023, FRIDAY**
3.00PM - 5.00PM

Live Webinar

REGISTRATION FEE :

IEM STUDENT : FOC
IEM MEMBERS: RM15
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SYNOPSIS

In a world where cardiovascular diseases (CVD) cast a significant health burden on today's population, this talk explores the imperative of continuous monitoring for heart health. We begin by highlighting the pervasive impact of CVD, setting the stage for a discussion that delves into the latest research trends. From there, the narrative unfolds to showcase the potential of smart wearable devices in continuous heart monitoring, illustrating through examples of a research work. The exploration extends to debates surrounding existing wearables and the integration of artificial intelligence into interpreting blood pressure waveforms. The journey concludes by offering a holistic perspective on risk detection. Join us on this enlightening expedition where emerging technologies and concepts redefine the approach to cardiovascular health, emphasizing the importance of continuous monitoring in our collective well-being.

SPEAKER'S PROFILE

Ir. Ts. Dr. Denesh Sooriamoorthy, currently serving as a Senior Lecturer at Asia Pacific University of Technology & Innovation (APU), brings a substantial background in academia and research to his role. He earned his M.Eng in Mechatronic Engineering and subsequently completed his PhD in Electrical and Electronic Engineering from the University of Nottingham Malaysia in 2016 and 2022, respectively. Ir. Ts. Dr. Denesh Sooriamoorthy's primary areas of expertise include Biomedical Engineering, Machine Learning, Deep Learning, Signal Processing, and Battery (SOC & SOH estimations). As a registered Professional Engineer (Mechatronic) with the Board of Engineers Malaysia (BEM), Dr. Sooriamoorthy is recognized for his proficiency in the field. His prior experience as a Research Engineer seamlessly aligned with his doctoral journey, wherein he pioneered a proactive approach to detect cardiovascular diseases through numerical modeling. Driven by a vision for preventive healthcare, his research diverges from traditional approaches, closely aligning with the themes explored in the upcoming talk synopsis.