

IEM

The Institution of Engineers, Malaysia

Organised by Consulting Engineering Special Interest Group

Webinar

The Emerging of Humanoid Robot

Exploring the rise of humanoid robots, their innovations, applications, and transformative potential in industries worldwide

05.00 PM – 07.00 PM

21th January, 2025

Zoom – Virtual Platform

Ir. Prof Dr TAN CHEE FAI

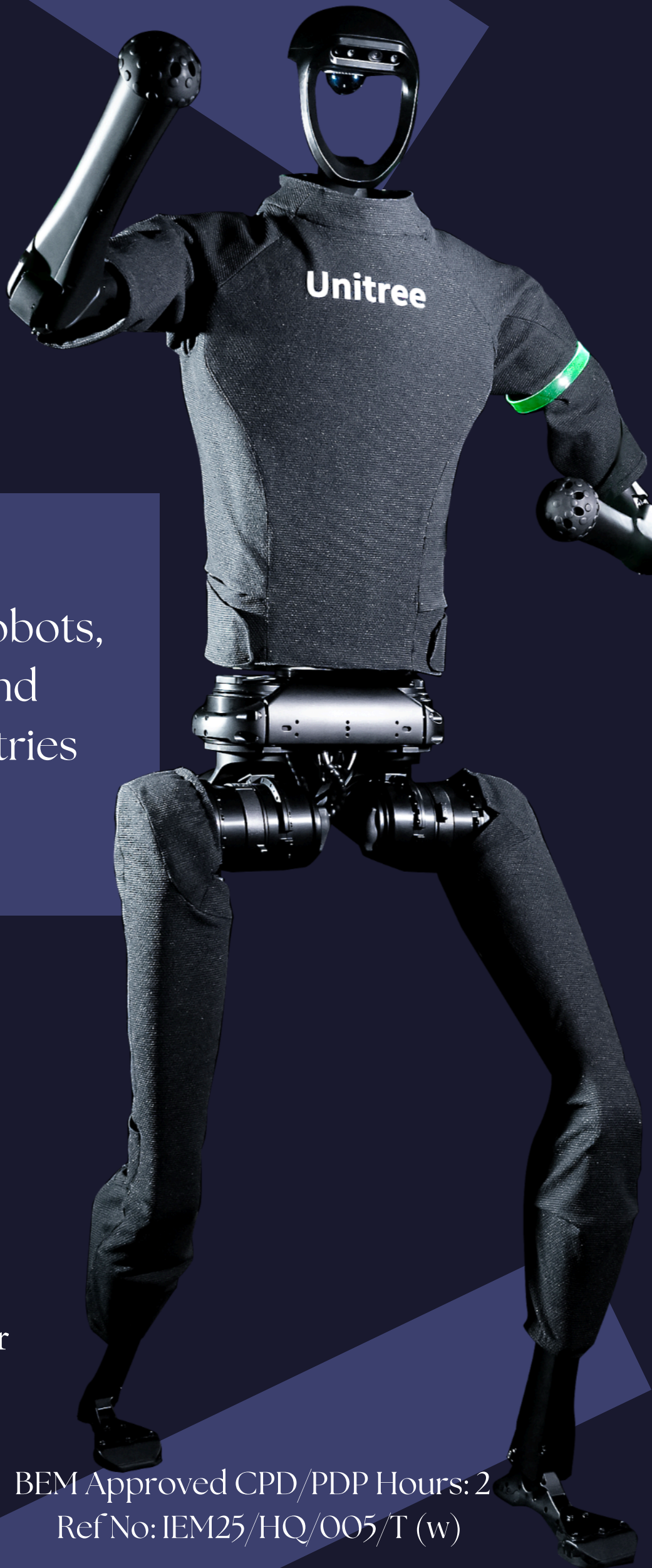
Deputy Vice-Chancellor
Infrastructure University Kuala Lumpur
| IUKL

REGISTRATION FEES

IEM Students: Free

IEM Members: RM15 (Online)

Non-IEM Members: RM70



BEM Approved CPD/PDP Hours: 2
Ref No: IEM25/HQ/005/T (w)

Synopsis:

Humanoid robots are revolutionizing the way we interact with technology and address complex challenges across industries. These advanced machines, designed to mimic human behavior, capabilities, and appearance, are driving innovation in fields such as healthcare, manufacturing, logistics, and customer service. This talk delves into the evolution of humanoid robots, highlighting key breakthroughs in artificial intelligence, robotics, and human-machine collaboration. It explores how these robots are being integrated into real-world applications, solving problems that demand precision, adaptability, and emotional intelligence.

Key themes include the role of humanoid robots in augmenting human capabilities, their potential impact on productivity, and ethical considerations surrounding their deployment. Attendees will gain insights into the future trajectory of humanoid robots, understanding how they can empower businesses and society to achieve unprecedented levels of efficiency, innovation, and sustainability in the ever-evolving digital era.

The Speaker

Ir. Prof. Dr Chee-Fai TAN is a practising engineer, specializing in smart manufacturing. He currently serves as the Honorary Secretary, the Institution of Engineers Malaysia (IEM) where he leads initiatives to promote smart industry innovations across the region. As an Exco Member of the Machinery & Engineering Industry Federation (MEIF) in Malaysia, he significantly contributes to the development of policies and strategies for the nation's engineering sector.

Prof. Tan is a Fellow of both the Academy of Engineering & Technology of the Developing World (AETDEW) and the ASEAN Academy of Engineering & Technology (AAET), earning recognition for his contributions to advancing engineering in developing regions and across ASEAN. His global reach includes his role as a Specialist for the ISO/IEC Smart Manufacturing Standards Map Task Force (ISO/IEC SM2TF), where he helps shape international standards in smart manufacturing. As a member of the Big Data & AI Working Group at the World Federation of Engineering Organizations (WFEO), he supports cutting-edge technological advancements worldwide.

Prof. Tan has been invited as a keynote speaker at major international events, including the World Robot Conference, the World Artificial Intelligence Conference, the World Intelligent Manufacturing Conference and more. He has also served as a UNESCO expert, advancing engineering education in African and APEC economies.

