WEBINAR TALK

A TECHNICAL INTRODUCTION TOWARDS THE MODELING OF AUTONOMOUS SURFACE VEHICLES (BOATS AND SHIPS) VIA ARTIFICIAL INTELLIGENCE

ORGANISED BY:
MARINE ENGINEERING AND NAVAL ARCHITECTURE TECHNICAL DIVISION, IEM

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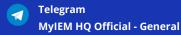**24 FEBRUARY 2022 | THURSDAY**

3.00pm - 5.00pm

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SPEAKER :

ASSOC. PROF. DR. AHMAD FAISAL MOHAMAD AYOB

IEM STUDENT : FOC
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SYNOPSIS

Decarbonizing shipping efforts, which has become the global focus in the year 2020 towards 2050 calls for the adoption of intelligence systems. This relates to myriad of systems including both power generation and navigation. Despite of the projected growth in global seaborne trade, shipping global emission are expected to increase, where at the same time IMO has been seen to be unsuccessful to achieve substantial progress in emissions reduction. In this talk, the audience shall be exposed with the global direction of decarbonization efforts, its relationship with the Sustainable Development Goals and its relationship with autonomous ships. Later, the technical aspects of the autonomous surface vehicle shall be discussed, where several interesting results shall be shared. While the world is moving towards the application of robotics, the internet of things (IoT), intelligent vehicles, smart underwater solutions, it is envisaged that the field of Marine Engineering and Maritime Technology bears a huge potential to push the barriers of the discipline concerning the challenges it faced.

SPEAKER'S PROFILE

Dr. Ahmad Faisal Mohamad Ayob is an Associate Professor at the Faculty of Ocean Engineering Technology and Informatics in Universiti Malaysia Terengganu since 2008. He is also a Director of International Centre, and the Managing Director of a start-up company incubated by UMT named VSG Labs Sdn. Bhd., focusing on the creation of vehicle simulators, virtualized learning and product design.

Dr. Faisal is an active industry collaborator in the field of artificial intelligence, vehicle designs and robotics. Other than actively involved with PETRONAS in the awareness programme in AI, Dr. Faisal constructed simulator softwares for several local Ship Building and Ship Repair (SBSR) companies to further understand the dynamics of ship in virtual environment.

Dr. Faisal obtained his Bach. Degree in Mechanical Engineering from Universiti Malaya, and PhD in Mechanical Engineering from the University of New South Wales at the Australian Defence Force Academy. His major focus is ship design, particularly in high-speed craft.