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Webinar Talk

Sensor and Instrumentation for Ocean Applications

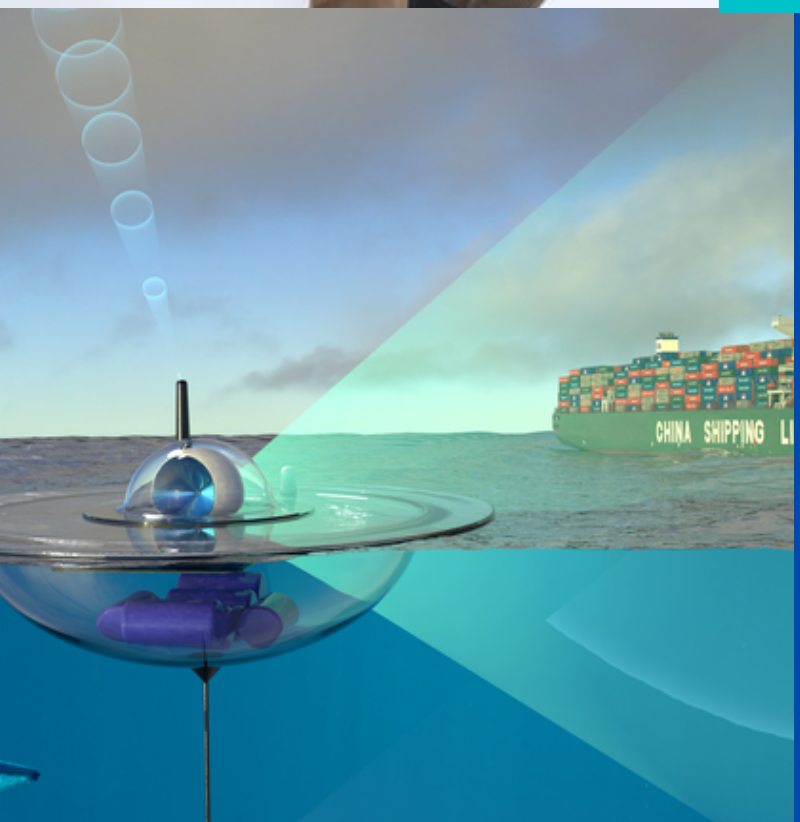
TALK DETAILS

SPEAKER : Ir. PROF. DR. MOHD RIZAL BIN ARSHAD

DATE : 9 MARCH 2021 (TUESDAY)

TIME : 3PM - 5PM

BEM Approved for CPD : 2.0
Ref no : IEM21/HQ/048/T(w)



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SYNOPSIS

Sensors and instrumentations modules are used in many applications to detect transient and long-term behavior of natural phenomena or man-made systems. The transducers at the front-end of the sensor modules will need to be able to detect slight changes and sufficiently robust to the elements in the vicinity of measurements. The instrumentation modules are pertinent to process the raw detected signals and filter the unwanted disturbances and noises. Normally, some elements of the instrumentation modules are attached to the sensor's head. Hence, the complete system must be protected from the environmental parameter variations. In the ocean or marine environment, there is tremendous challenge to ensure the enclosure can withstand the external water pressure and the occurrence of bio-fouling. This talk will explore some of the practical issues in deploying sensors and instrumentations modules for ocean or marine-related measurements.

SPEAKER'S DETAILS

Ir. Prof. Dr. Mohd Rizal Arshad graduated from the University of Liverpool, UK in July 1994; with a B.Eng. in Medical Electronics & Instrumentation and January 1999 with a PhD Degree in Electronic Engineering. He completed his MSc. in Electronic Control Engineering from the University of Salford in 1995. His areas of specialization are ocean robotics and instrumentation, control and intelligent system. He is currently a full professor and Deputy Vice Chancellor in Academic and International at Universiti Malaysia Perlis (UniMAP), Malaysia.