

## Integrating observations and datums for inter-tidal physical surfaces

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Host: Dr Serene Tay

Registration: [https://nus-sg.zoom.us/webinar/register/WN\\_5ccqfc30QyKBqdXAPxF6HQ](https://nus-sg.zoom.us/webinar/register/WN_5ccqfc30QyKBqdXAPxF6HQ)



### **ABSTRACT:**

Data in the nearshore region particularly in the intertidal zone, be it biotic or abiotic, is not easily available. This data paucity stems from factors including physical challenges, datums and integration of the data sets. The Ecological Monitoring, Informatics & Dynamics Lab (EMID) of TMSI has recently completed a Cities of Tomorrow grant on inter-tidal bathymetry/topography data gathering. In this talk we will take you through what we have learnt in the project with regards to collecting such data, translating the different methods used, working with the datums and developing a machine learning method to robustly integrate the gathered data.

About the Speaker: Dr Ooi Seng Keat (SK) is Head of EMID and a part-time lecturer at the Dept. of Civil and Environmental Engineering. SK's research interests lie in tropical environmental flows particularly inputs and interactions between the biota and the environment, and how to model them. The implications lie in potential impact for changing climate and changing built-environment to water resource issues, in relation to flows, water quality and ecology in the tropics which are not always well described.