



Centre for Offshore Research
and Engineering
Faculty of Engineering

Technical Talk

Organised by

The Society of Naval Architects and Marine Engineers Singapore

The Joint Branch of the RINA and the IMarEST (Singapore)

Centre for Offshore Research & Engineering (CORE), NUS

Transforming Maritime Entities to Digital Enterprises

Bringing technology to change the way maritime industry operates



Dr. Piyush Raj

Date : 6th Dec 2018, Thursday

Time: 6:30 pm to 7:00 pm (Refreshment & Registration)
7:00 pm to 8:30 pm (Technical Talk)

Venue: Block EA, #02-11, 9 Engineering Drive 1,
National University of Singapore (NUS), Singapore 117575



To register your attendance, please click the [web-link](#)



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Abstract

Technology is fast changing the landscape around us. Think of how much change technology has brought in our personal lives in last 25 years or so. Evolution of computers and processing capabilities, internet and mobile phones have changed the way we spend our work or leisure hours.

Change in maritime industry is also inevitable, but the way our industry functions, a change needs an effort from everyone involved - charterers, owners, operators, flag states, class societies, equipment manufacturers, technology companies and other stakeholders. Each of them has a role to play and in that process, they need to change as well. In this session, Dr. Piyush will highlights fundamental drivers which will make this change happen in this industry.

High speed bandwidth availability at low cost and advent of enabling technologies for several shipboard operations and maritime activities is attracting an unprecedented focus for change. Investors are pouring in money. Equipment and system providers are consolidating their capabilities. Class societies are busy preparing framework for digital compliance or autonomous operations of vessels. And every major shipping company has a digitalization officer looking at opportunities.

With maritime environment gearing up to embrace change, a team of engineers, data scientists, technologists, academicians, business strategists and marine professionals are bringing technology at the forefront, with support from flag state and guidelines from class societies. Leading product development for this team at AlphaOri, Dr. Piyush showcases SMARTShip™, which is targeted towards digitally enabling all floating enterprises with cutting edge technologies - IoT for ships, machine learning for routine shipboard operations and cloud based big data applications for optimizations and predictions.



The first batch of SMARTShip are already in operations, and perhaps very soon business will not be usual for those who have not embraced technology.

About the Speaker

Dr. Raj heads the product development at AlphaOri Technologies.

Before joining his current role, Dr. Piyush has been associate with maritime industry for more than 20 years. This includes working for about 5 years at DNV GL, as Innovation manager and principal consultant providing technical advisory & training services.

He has also sailed on board for about 7 years and worked in shipyard in various capacities for about 5 years.

Dr. Raj is a marine engineering graduate from DMET, Kolkata and a Doctorate in operational research from IIM Lucknow with maritime operations as his key research area.

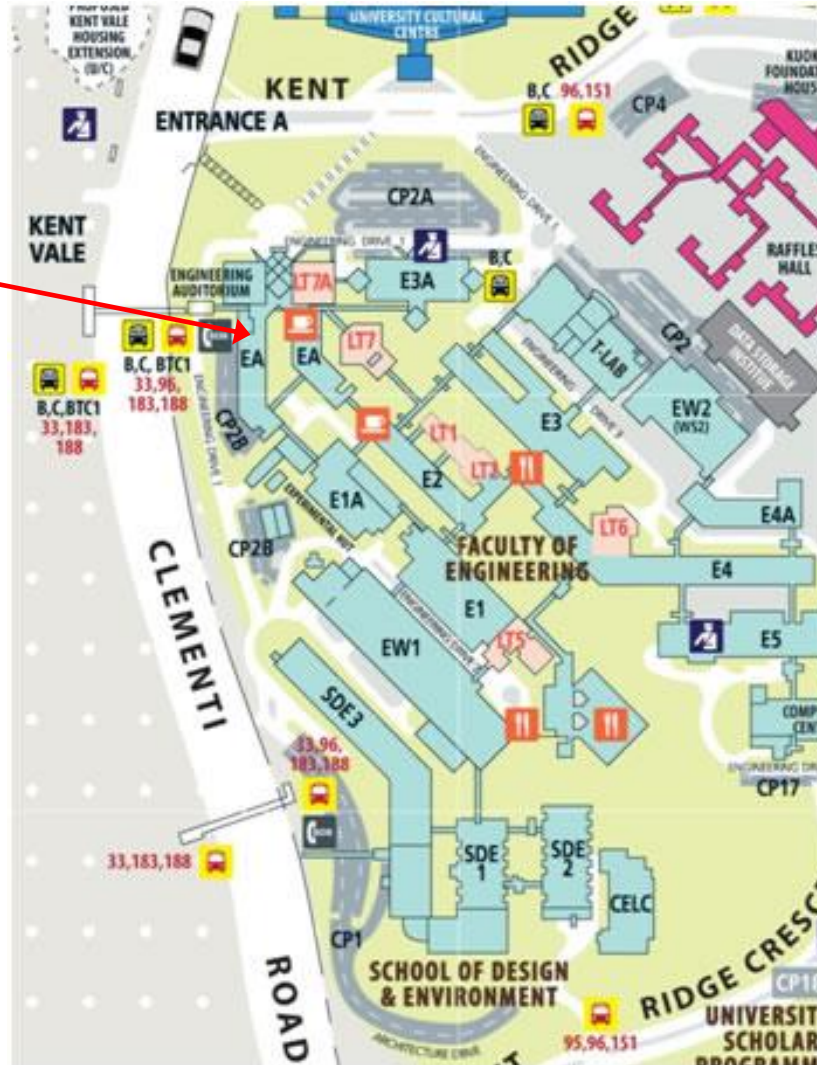
He is a member of RINA and Institute of Marine Engineers, India and has several publications to his credit.



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Location Map

Blk EA #02-11
9 Engineering Drive 1
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All members are welcome and admission is free but early registration is needed which is limited.

No filming or walk-in guest is allowed for this event.