

# Workshop on Autonomous multi-agent underwater systems: Bridging the divide



**BITS Pilani**  
K K Birla Goa Campus



सत्यमेव जयते

**Ministry of Education**  
Government of India



**SPARC**

Scheme for Promotion of Academic and Research Collaboration

**30th and 31st October, 2025**  
**BITS Pilani K K Birla Goa Campus**

**REGISTER NOW**

# Resource Persons-



**Dr. V. B. S. Ayyangar,**  
Member Secretary,  
Naval Research Board (NRB)



**Dr. D Vijay Rao**  
Scientist G and Group Director (Retd)  
Institute for Systems Studies and Analyses  
DRDO



**Prof. Antonio Pascoal**  
Institute for Systems and  
Robotics (ISR)  
Instituto Superior Técnico (IST)  
Lisbon, Portugal



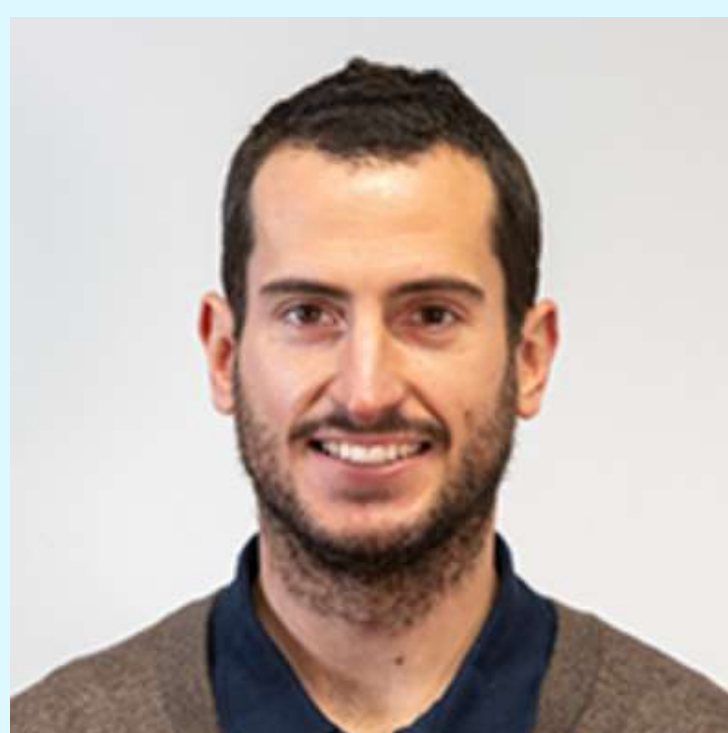
**Prof. Preetam Kumar,**  
Dept. of Electrical Engineering,  
IIT Patna



**Prof. Arpita Sinha,**  
System and Control Engineering,  
IIT Bombay



**Prof. Martin Ludvigsen,**  
Department of Marine  
Technology, NTNU, Norway



**Prof. Filippo Campagnaro**  
Dept. of Information Engineering,  
University of Padova, Italy



**Prof. Prashant Kumar**  
Dept. of Electronics and Communication  
Engineering, NIT Jamshedpur



**Prof. Rakesh Warier**  
Dept. of Electrical Engineering,  
NIT Calicut

## Demonstration of underwater communication networks:

- Prof. Filippo Campagnaro, University of Padova, Italy
- Prof. Sarang Dhongdi, BITS Pilani Goa Campus
- Dr. Pramod Maurya, CSIR-NIO, Goa
- Vincenzo Cimino, research intern, University of Padova, Italy
- Dr. Bhushan Kadam, Research Associate, BITS Pilani Goa Campus
- Uday Veloti, Research Fellow, BITS Pilani Goa Campus

# Theme of the workshop

## Autonomous multi-agent underwater systems: Bridging the divide

### Topics Covered -

- Underwater Communications, Networks and UIoT
- Networked co-operative systems
- Robotic platforms for ocean exploration

### Who should attend ?

- Students, Faculty members, Industry persons, Researchers in area of underwater communication and Networks, underwater robotics and AI.

### Registration and general information -

- No registration fee (Limited seats)
- Students should submit the registration form duly signed from the head of the institution
- Last date of registration- 30<sup>th</sup> September 2025
- Dates of workshop - 30th and 31st Oct, 2025
- Venue - BITS Pilani, Kk Birla Goa Campus

### How to apply?

- Registration form in the prescribed format duly filled up in all respects and attested by head of the institution should reach the coordinator through the google form -



For any queries, write to -  
[sarang@goa.bits-pilani.ac.in](mailto:sarang@goa.bits-pilani.ac.in)

# Autonomous multi-agent underwater systems: Bridging the divide

The symposium will feature a poster session to encourage active participation, collaboration, and knowledge exchange among students, researchers, and industry experts. This session provides an excellent opportunity to present your work, receive feedback, and engage in discussions with peers and leading professionals in underwater observation systems.

## We welcome submissions across various stages of research, including-

- Ongoing Research: Present preliminary results, experimental findings, or work-in-progress in underwater communication, networked systems, or robotic platforms.
- Published Work: Share and discuss already published research to foster further insights and collaboration.
- Problem-Solution Exploration: If you are new to the field and have formulated a research problem, seek advice on methodologies, tools, and potential solutions from experts.

## Submission Guidelines:

- Interested participants must submit a 2-page extended abstract summarising their work.
- Selected presenters will be required to submit their poster in A0 format (portrait orientation) ahead of the symposium.

## Topics of Interest:

- Underwater acoustic communication, networking, and Marine IoT
- Networked cooperative systems for multi-vehicle operations
- Robotic platforms for underwater applications

This session aims to bridge theory and practice, offering a dynamic platform for innovation and networking. We look forward to your contributions