Ocean Sensing System, Ocean Information Fusion, Ocean Cyber-Physical System — Building D Pilotis

Center for Integrated Underwater Observation Technology

[Fusion of Ocean Cyber and Physical Systems]

Graduate School of Frontier Sciences; Ocean Technology, Policy and Environment

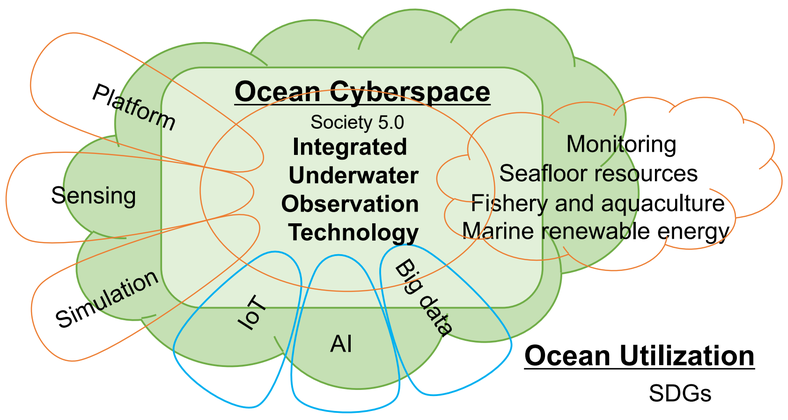
Graduate School of Engineering; Systems Innovation, Mechanical Engineering,
Electrical Engineering and Information Systems, Information and Communication Engineering

Graduate School of Interdisciplinary Information Studies; Interdisciplinary Information Studies

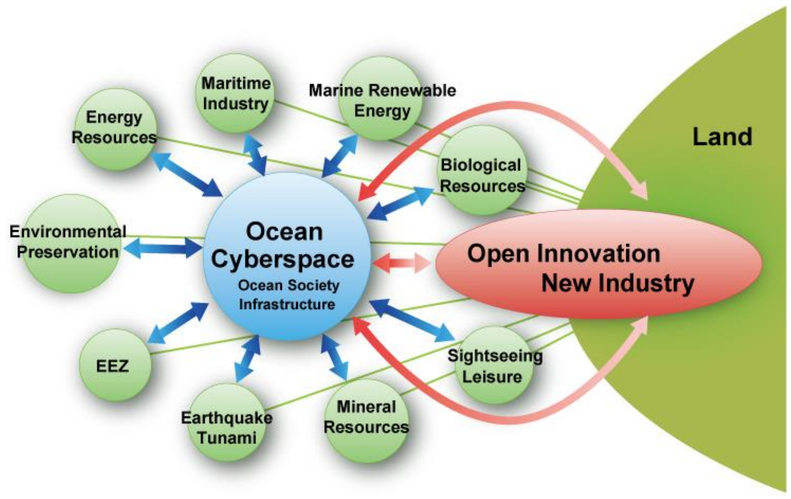
http://seasat.iis.u-tokyo.ac.jp/

Toward the Construction of Ocean Social Infrastructure

Ocean Social Infrastructure

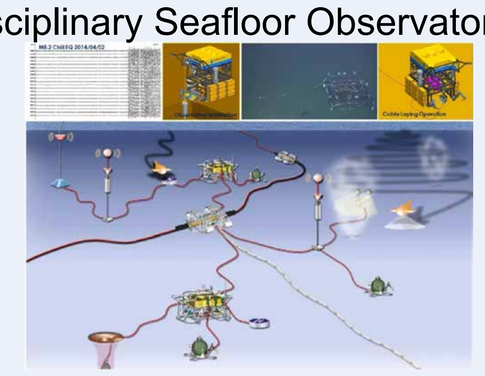


Based on integrated underwater observation technology, we aim to create an ocean cyberspace (virtual space) that is integrated with the physical space of the ocean (real space) and is free from the restrictions of access difficulties by incorporating IoT, artificial intelligence (AI), and big data technology.

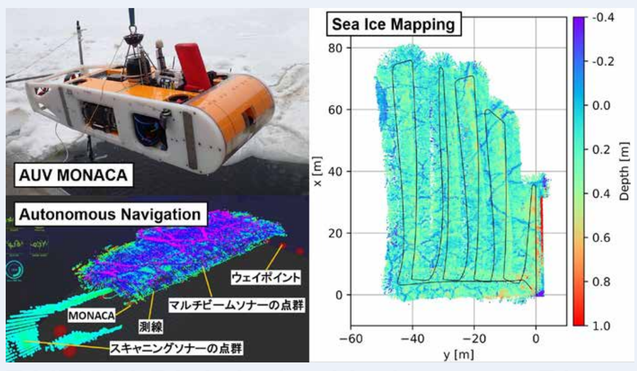


Ocean Sensing System

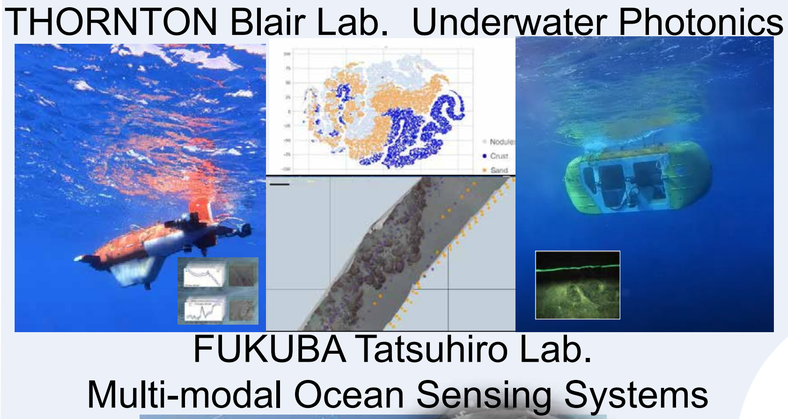
KAWAGUCHI Katsuyoshi Lab.
Multidisciplinary Seafloor Observatory Engineering



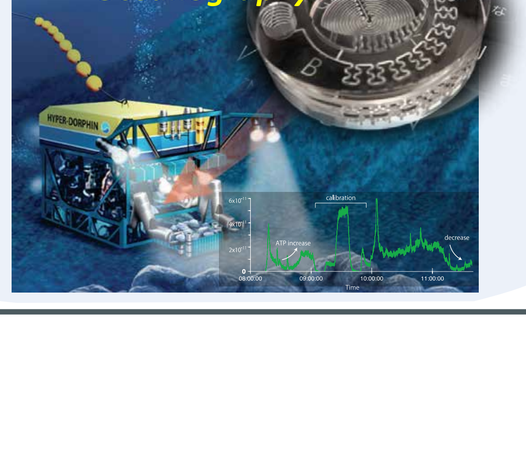
MAKI Toshihiro Lab. Underwater Platform Systems



THORNTON Blair Lab. Underwater Photonics

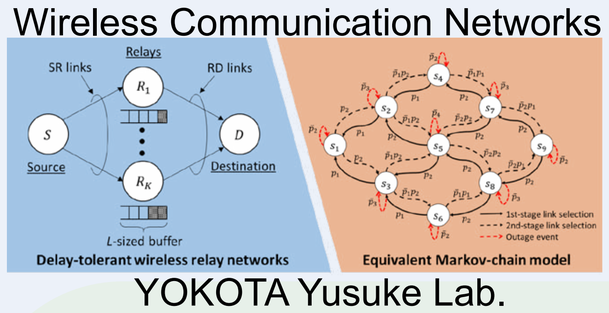


FUKUBA Tatsuhiro Lab.
Multi-modal Ocean Sensing Systems

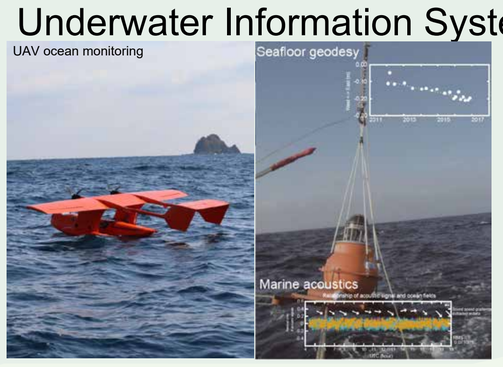


RHEEM Chang-Kyu Lab.
Ocean Environmental Engineering

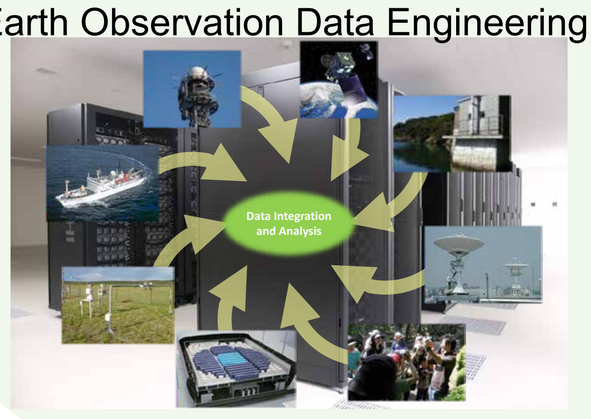
SUGIURA Shinya Lab.
Wireless Communication Networks



YOKOTA Yusuke Lab.
Underwater Information System

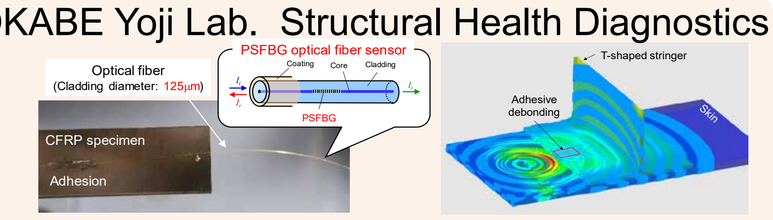


NEMOTO Toshihiro Lab.
Earth Observation Data Engineering



Ocean Cyber-Physical System

OKABE Yoji Lab. Structural Health Diagnostics



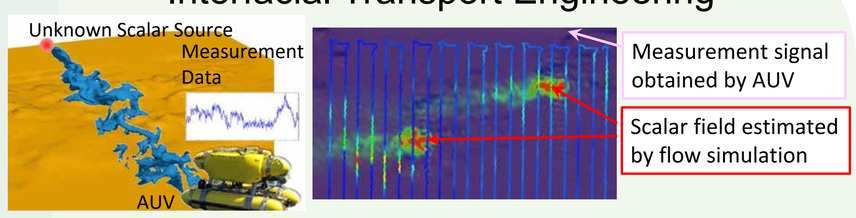
Optical fiber ultrasonic sensor for structural health monitoring

Ultrasonic damage detection in composite structures

OISHI Takeshi Lab.
Spatiotemporal Media Engineering

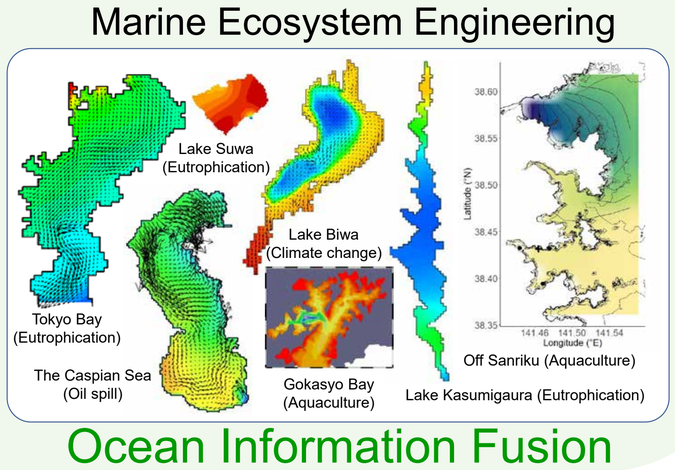
Tele-operation of Humanoid Robot

HASEGAWA Yosuke Lab.
Interfacial Transport Engineering



Estimation of Scalar Field through Integration of Measurement Data into Computational Fluid Dynamics

KITAZAWA Daisuke Lab.
Marine Ecosystem Engineering



Ocean Information Fusion