Ocean Sensing System, Ocean Information Fusion, Ocean Cyber-Physical System

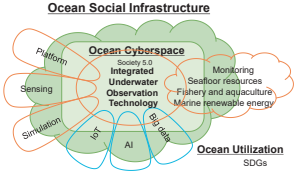
Center for Integrated Underwater Observation Technology

[Fusion of Ocean Cyber and Physical Systems]

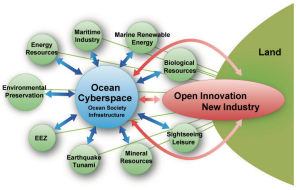
Graduate School of Frontier Sciences; Ocean Technology, Policy and Environment
Graduate School of Engineering; Systems Innovation, Mechanical Engineering,
Electrical Engineering and Information Systems, Information and Communication Engineering
Graduate School of Interdisciplinary Information Studies; Interdisciplinary Information Studies
http://seasat.iis.u-tokyo.ac.jp/

Toward the Construction of Ocean Social Infrastructure

Ocean Social Infrastructure

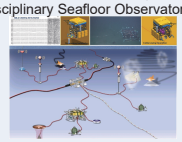


Based on integrated underwater observation technology, we aim to create an ocean cyberspace (virtual space) that is integrated with the physical space of the ocean (real space) and is free from the restrictions of access difficulties by incorporating IoT, artificial intelligence (AI), and big data technology.



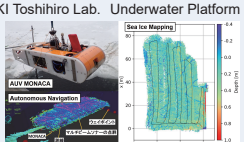
Ocean Sensing System

KAWAGUCHI Katsuyoshi Lab.
Multidisciplinary Seafloor Observatory Engineering

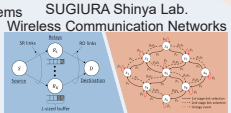


RHEEM Chang-Kyu Lab.
Ocean Environmental Engineering

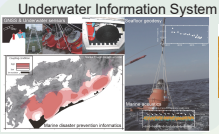
MAKI Toshihiro Lab. Underwater Platform Systems



SUGIURA Shinya Lab.
Wireless Communication Networks

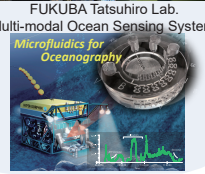


YOKOTA Yusuke Lab.
Underwater Information System



THORNTON Blair Lab. Underwater Photonics

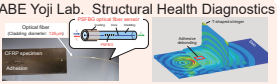
FUKUBA Tatsuhiro Lab.
Multi-modal Ocean Sensing Systems



NEMOTO Toshihiro Lab.
Earth Observation Data Engineering

Ocean Cyber-Physical System

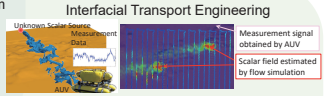
OKABE Yoji Lab. Structural Health Diagnostics



OISHI Takeshi Lab.
Spatiotemporal Media Engineering

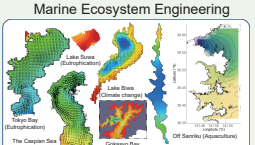
Tele-operation of Humanoid Robot

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