Center for Integrated Underwater Observation Technology

[Fusion of Ocean Cyber and Physical Systems]

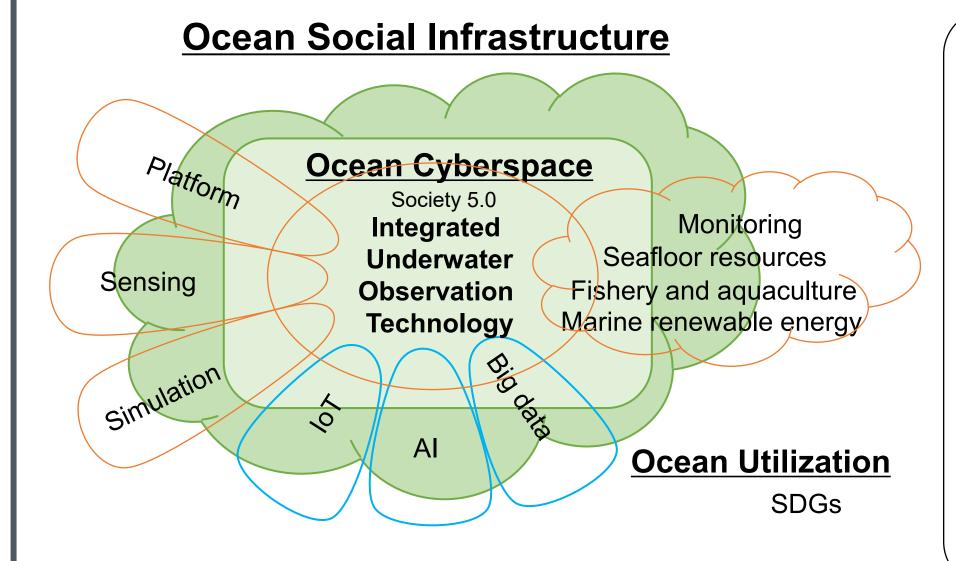
Graduate School of Frontier Sciences; Ocean Technology, Policy and Environment Graduate School of Engineering; Systems Innovation, Mechanical Engineering,

Electrical Engineering and Information Systems, Information and Communication Engineering

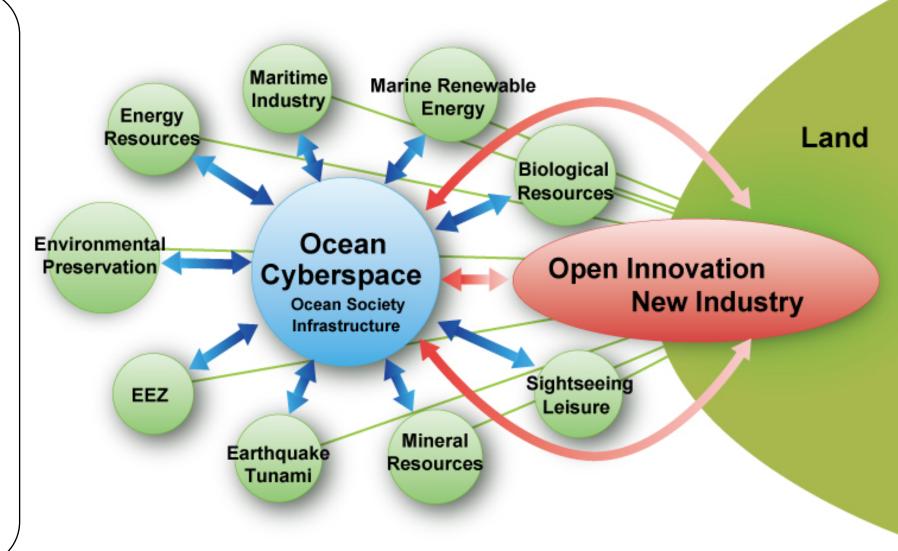
Graduate School of Interdisciplinary Information Studies; Interdisciplinary Information Studies

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

Toward the Construction of Ocean Social Infrastructure



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.

RHEEM Chang-Kyu Lab. Ocean Environmental Engineering

Ocean Cyber-Physical System

OKABE Yoji Lab. Structural Health Diagnostics

Multidisciplinary Seafloor Observatory Engineering

Optical fiber ultrasonic sensor for structural health monitoring

Ultrasonic damage detection in composite structures

OISHI Takeshi Lab.



Tele-operation of Humanoid Robot

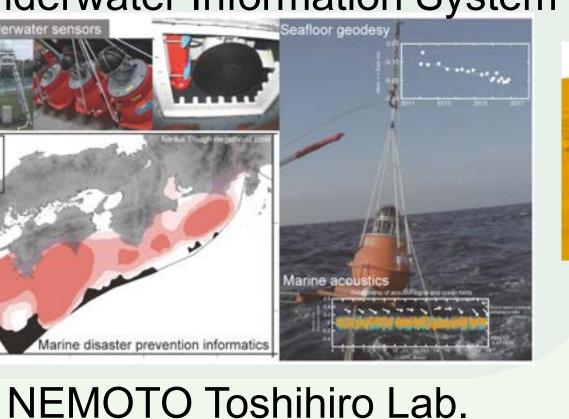
MAKI Toshihiro Lab. Underwater Platform Systems

Sea Ice Mapping -0.4 **AUV MONACA Autonomous Navigation**

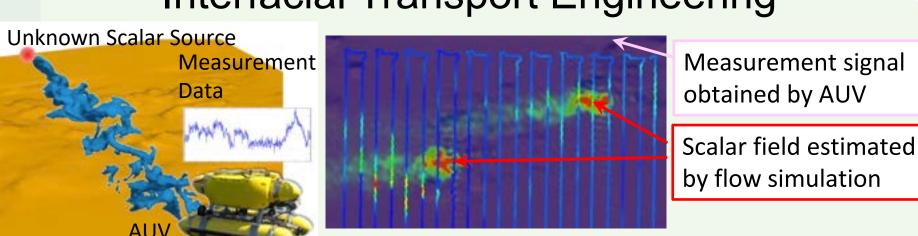
SUGIURA Shinya Lab. Wireless Communication Networks

Delay-tolerant wireless relay networks

YOKOTA Yusuke Lab. **Underwater Information System**

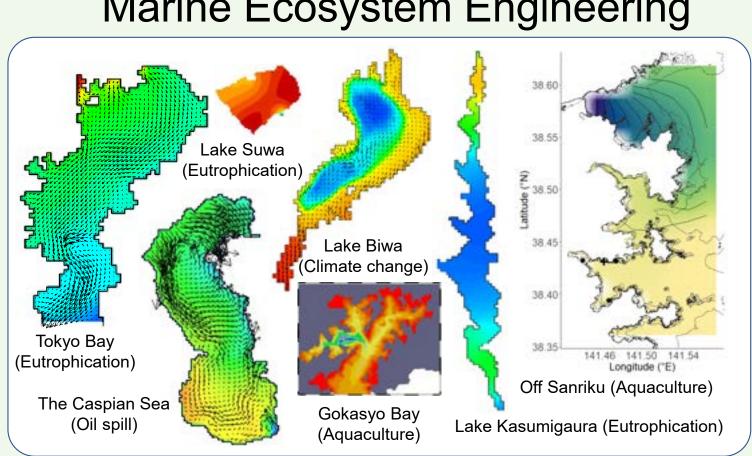


HASEGAWA Yosuke Lab. Interfacial Transport Engineering



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

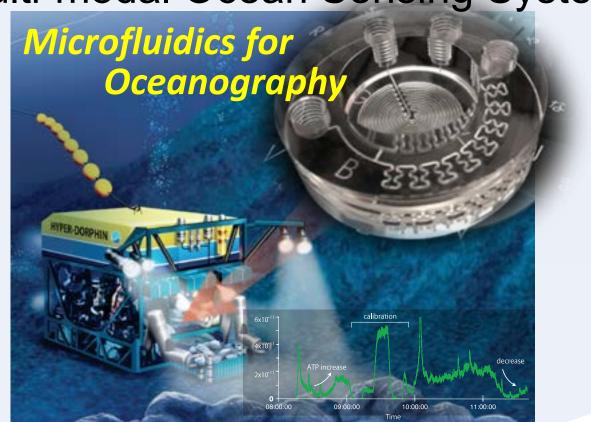
KITAZAWA Daisuke Lab. Marine Ecosystem Engineering



Ocean Information Fusion

THORNTON Blair Lab. Underwater Photonics

FUKUBA Tatsuhiro Lab. Multi-modal Ocean Sensing Systems



Earth Observation Data Engineering