

Institutes for Advanced Research Organizational Structure



Institutes for Advanced Research



Institute of Advanced Sciences


CENTER

 Quantum Information Research Center

 ACERC
Advanced Chemical Energy Research Center


UNIT


Information and Physical Security	Cell-based Bioassay
High Efficiency Electrical Energy Conversion	Ultralow-Power-Saving Magnonics Devices





Institute for Multidisciplinary Sciences


CENTER

 Typhoon Science and Technology Research Center

 Research Center for Next-Generation Health Technology

 Research Center for Sustainability, Resilience and Well-being

 Semiconductor and Quantum Integrated Electronics Research Center

 Shipbuilding & Ocean Renaissance International Center

UNIT

Biosphere	Artificial Intelligence Research Unit for Innovation and Co-Creation
Co-innovation Dynamics	Global Cultural Heritage Research Unit
Research Unit of Safety Science for Advanced Engineering Systems	Aeronautics and Astronautics
Age-Friendly Space Research Unit	

INTRODUCTION OF THE NEW CENTER



SORIC
Shipbuilding & Ocean Renaissance
International Center

VISION

To address the two major challenges of shipbuilding revitalization and advancing ocean development, we integrate diverse and cutting-edge knowledge through industry–government–academia and international collaboration. Through this approach, we seek to drive structural transformation and new value creation in the maritime and ocean industries, while advancing next-generation maritime and ocean systems and industrial foundations for a sustainable future.

RESEARCH CONTENTS

We integrate research on shipbuilding DX systems based on robotics, AI, and digital twins; design and operational optimization of maritime and ocean systems; ocean energy utilization; ocean observation and exploration systems; maritime cybersecurity; and maritime industrial strategy and global partnerships, to advance sustainable and globally competitive next-generation maritime and ocean industrial systems.

CENTER
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Center Director
MITSUYUKI
Taiga

INTRODUCTION OF THE NEW UNIT

UNIT **6** Age-Friendly Space Research Unit

VISION

We aim to realize age-friendly spaces—encompassing homes, community hubs, and outdoor environments—where older adults understand their own physical condition and continue to live independently, thereby extending healthy life expectancy while reducing the societal burden of medical and long-term care.

RESEARCH CONTENTS

Integrating early detection of fall risk and functional decline through physical assessment, evidence-based spatial design of residential and outdoor environments, and community-based practice in the Yokohama area, we develop and implement a replicable age-friendly space model that sustains independent living in later life.



Principal Investigator
SHIMA Keisuke