

IEEE Journal of Oceanic Engineering

Call for papers

Special Issue on Sensors, Actuators, and Energy Harvesting for Sustainable Ocean Observing Systems

The Journal will publish a Special Issue focusing on sensors, actuators, and energy harvesting systems for sustainable ocean observing systems. The United Nations Decade of Ocean Science for Sustainable Development is an important inspiration for the Special Issue. Submitted papers should explicitly address one or more of the Ocean Decade Challenges (<https://oceandecade.org/challenges/>). Examples of suitable topics include, but are not limited to sensors/instrumentation, actuators, and energy harvesting systems for:

- sustainable ocean observing systems with new functionalities, or better performance (Challenge 7: Expand the Global Ocean Observing System);
- monitoring ocean pollutants and contaminants (Challenge 1: Understand and beat marine pollution);
- monitoring marine mammals (Challenge 2: Protect and restore ecosystems and biodiversity);
- monitoring physical oceanographic parameters that are key parameters for air-sea interaction, climate changes (Challenge 5: Unlock ocean-based solutions to climate change);
- novel networking paradigms to enable the long-term deployment of underwater sensor networks (Challenge 7: expand the Global Ocean Observing System).

Guest Editors:

Yang Yang, Prof. Dr.
Institute of Deep-sea Science
and Engineering, CAS, China
yangyang@idsse.ac.cn

Zhiqun Daniel Deng, Lab Fellow, Dr.
Pacific Northwest National
Laboratory, USA
zhiqun.deng@pnnl.gov

Oscar Pizarro, Prof. Dr.
University of Concepción, Chile
opizarro@udec.cl

Ming Feng, Senior Principal
Research Scientist, Dr.
Environment, CSIRO, Australia
Ming.Feng@csiro.au

Zheng, Y. Rosa
Lehigh University, USA
yrz218@lehigh.edu

Yaxiaer Yalikun, Prof. Dr.
Nara Institute of Science and
Technology (NAIST), Japan
yaxiaer@ms.naist.jp

Danny Hughes, Prof. Dr.
KU Leuven, Belgium
danny.hughes@kuleuven.be

Deadline for submission of papers: 15 July 2024. Manuscripts submitted prior to this date will be eligible for consideration for publication in the Special Issue. All manuscripts must be submitted through the Journal's website: <http://joe.msubmit.net>.

Authors should include a cover letter when submitting their manuscript indicating that the contribution is intended for the "Sensors, Actuators and Energy Harvesting for Sustainable Ocean Observing Systems" Special Issue and explicitly explain how their work is relevant to the Ocean Decade Challenges. If the paper is an expanded conference paper, the authors should submit a PDF of the original conference paper and explain in the cover letter how it has been extended.

The Journal encourages authors to consider supporting JOE efforts to publish reproducible results through sharing of code and data. This way, other researchers can build upon your work and your contributions will have higher impact in our community, increasing the value of your paper and potentially increasing citation rate.

For additional information, please see editorial: <https://ieeexplore.ieee.org/document/8410389>

Upon acceptance by the Editor-in-Chief, individual papers will be posted on IEEE Xplore, thus becoming downloadable and citable prior to publication of the entire collection of "Sensors, Actuators and Energy Harvesting for Sustainable Ocean Observing Systems" papers in a regular, quarterly issue of the Journal.

Target date for publication on JOE: October 2025