# **Special Issue**

# Sensors for Unmanned Surface/Underwater Vehicles: Current State-of-the-Art and Future Trends

## Message from the Guest Editor

This Special Issue of *Sensors* explores the critical role of sensors in enhancing the capabilities of autonomous surface and underwater vehicles. This Issue delves into the various types of sensors, such as sonar, cameras, inertial sensors, and EMF sensors, highlighting their applications in underwater and surface environments alike. Specialised sensors can aid in obstacle detection, navigation, data collection (from biogeochemical to physical data), underwater cable detection, and underwater/air offshore maintenance, to mention only several areas of utility, ensuring the efficient and reliable operation of unmanned vehicles in challenging maritime conditions. Integrating advanced sensor technologies improves autonomy, safety, and mission success for unmanned surface and underwater vehicles across diverse applications, including environmental monitoring, surveillance, support to offshore energy facilities, and scientific research. Topics of interest include, but are not limited to:

- autonomous vehicles
- unmanned surface vehicles
- maritime robotics
- offshore energy
- sonar technology
- navigation systems
- environmental monitoring
- underwater robotics

#### **Guest Editor**

Dr. Eduardo Silva

1. INESCTEC—Institute for Systems and Computer Engineering, Technology and Science, Rua Dr. Roberto Frias, 4200-465 Porto, Portugal

2. ISEP—School of Engineering, Polytechnic Institute of Porto, Rua Dr. António Bernardino de Almeida 431, 4249-015 Porto, Portugal

### Deadline for manuscript submissions

closed (15 January 2025)



## **Sensors**

an Open Access Journal by MDPI

Impact Factor 3.5 CiteScore 8.2 Indexed in PubMed



mdpi.com/si/194854

Sensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sensors@mdpi.com

mdpi.com/journal/ sensors





## **Sensors**

an Open Access Journal by MDPI

Impact Factor 3.5 CiteScore 8.2 Indexed in PubMed



## **About the Journal**

## Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

#### Editor-in-Chief

### Prof. Dr. Vittorio M. N. Passaro

Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 Bari, Italy

## **Author Benefits**

#### Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

### **High Visibility:**

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Ei Compendex, Inspec, Astrophysics Data System, and other databases.

#### Journal Rank:

JCR - Q2 (Instruments and Instrumentation) / CiteScore - Q1 (Instrumentation)

