

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

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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.

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