

## Special Issue

# Unmanned and Autonomous Surface Vehicles: Localization, Control, and Navigation

### Message from the Guest Editor

We are seeing rapid advances in vehicle control and autonomous surface systems. Artificial-intelligence-powered systems are gaining mainstream acceptance due to the unique capabilities that they offer. Surface vehicles can be utilized in a wide range of contexts, including, but not limited to, transportation, industry, and warehouses. The unmanned or autonomous operation of such systems can offer tremendous functional benefits, such as higher safety and efficiency expectations in the deployment of connected and autonomous vehicles and improved traffic flow. This Special Issue will cover topics including autonomous and unmanned vehicle control, safety countermeasures, safe interactions with objects and other road users, navigation, spatial awareness of surrounding environments, and key advancements in the sensors used in the control and navigation of unmanned and autonomous vehicles. This Special Issue aims to disseminate cutting-edge research on several topics related to unmanned and autonomous surface vehicles, with a particular focus on localization, control, and navigation.

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### Guest Editor

Dr. Karim Ismail

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### Deadline for manuscript submissions

30 September 2025



## Sensors

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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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### Editor-in-Chief

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