Special Issue

Unmanned Surface Vehicles: Design and Control

Message from the Guest Editors

This Special Issue focuses on designing and controlling unmanned surface vehicles (USVs). USVs are autonomous marine craft operating on a body of water without any personnel onboard. USVs have been widely used to conduct scientific research in oceanography, meteorology, industry, and defense sectors. This Special Issue seeks high-quality original contributions, including technical papers that address the main research challenges related to the design, motion control, and related technologies of marine vehicles. Potential topics include, but are not limited to, the following:

- Modeling and control of unmanned surface vehicles.
- Path planning for unmanned surface vehicles.
- Identification and estimation in unmanned surface vehicles.
- Cooperative and coordinated control of multiple unmanned surface vehicles.
- Unmanned surface vehicle swarm design and mission applications.
- Modeling and simulation of unmanned surface vehicles.
- Other design and control applications in marine systems.
- Intelligent design of unmanned surface vehicle hulls.
- Performance evaluation and optimization of unmanned surface vehicles.
- General arrangement design of unmanned surface vehicles.

Guest Editors

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Deadline for manuscript submissions

closed (20 March 2025)

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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