Autonomy and Cooperation in Unmanned Surface and Underwater Vehicles

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Deadline for manuscript submissions:
closed (28 February 2022)

Message from the Guest Editors

This Special Issue calls for high-quality, unpublished research papers on recent advances in the development of novel algorithms and methods for enhancing the autonomy and cooperation of UxVs. We welcome contributions that present and solve open research problems or that integrate efficient novel solutions, performance evaluations, and comparisons with existing solutions. Theoretical and experimental studies concerning typical and emerging underwater wireless communication systems and protocols for UxVs, and use cases enabled by recent advances in the autonomy and cooperation of UxVs are encouraged.

Potential topics include, but are not limited to, the following:

- Cooperative cognitive control for UxVs;
- Cognitive communication for UxVs;
- Swarming autonomous maritime vehicles;
- Cooperative localization and navigation;
- Machine learning for communication or control;
- Distributed algorithms for UxVs;
- Adaptive control algorithms for UxVs;
- Data quality and uncertainty estimation in monitoring with UxVs.

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Special Issue

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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.

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