Special Issue

Modeling, Guidance and Control of Marine Robotics

Message from the Guest Editor

Marine robotics includes a wide range of devices, from autonomous underwater vehicles (AUVs) and remotely operated vehicles (ROVs) to gliders and unmanned surface vehicles (USVs). These devices can be used for a range of tasks, such as mapping the seafloor, collecting data on ocean currents and water quality, and monitoring marine life. Modeling, guidance and control are critical aspects of marine robotics that enable robots and autonomous vehicles to perform their intended tasks effectively and efficiently. In recent years, the modeling, guidance and control of marine robotics have attracted worldwide attention. Submissions can address, but are not limited to, the following topics:

- Ship performance design and modeling analysis of marine robotics;
- Guidance of marine robotics;
- Video processing for intelligent marine robots;
- Sensing technology for marine robotics;
- Precision instrumentation for marine robots;
- Integrated behavior and decision in marine robotics;
- Control and operation of marine robotics;
- Evolutionary learning for swarm marine robotics;
- Development and application of special marine robots.

Guest Editor

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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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