Intelligent Marine Robotics Modelling, Simulation and Applications

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Message from the Guest Editors

Dear Colleagues,

Marine robots are commonly used to carry out several tasks in deeper and riskier areas where divers are not possible. However, there are numbers of challenges in operating them precisely; unpredictable disturbances during actual operation and uncertain dynamic model for designing a typical guidance, navigation, and control system. To circumvent these challenges, the robots have to be intelligent in the sense of having conscious thought to allow them to make decisions that impact their performance and actions.

The aim of the Special Issue should contain recent findings in the field of intelligent robots. Relevant technologies enhancing prototyping, simulation, dexterity, and user experience are also desired. Researchers involved in the marine robotics should find this particular issue extraordinary and provide the latest perspectives on the state-of-the-art.

Topics of interest include (but are not limited to) the following areas:

- Image-based and signal-based processing
- Fault identification and detection
- Signal processing and pattern recognition
- Communication systems
- Human–robot interaction
- Multi-sensor fusion for control/feedback

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Special Issue

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Message from the Editor-in-Chief

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