Special Issue

Emerging Computational Methods in Intelligent Marine Vehicles

Message from the Guest Editors

Intelligent marine vehicles, such as unmanned/autonomous surface vehicles (USV/ASV) and unmanned/autonomous underwater vehicles (UUV/AUV), have become increasingly popular recently because of their flexibility, versatility and high performance–price ratio in several applications, e.g., ocean exploration, oceanography, and search and rescue missions. Performance in these applications depends highly upon the data sensed from various sensors, such as visible/infrared cameras, radar, global navigation satellite systems, and automatic identification systems for USV/ASV, and visible cameras, sonar, inertial navigation systems, and Doppler velocity logs for UUV/AUV. However, the collected sensed data inevitably suffer from noise and missing data during signal encoding, transmission, and decoding. To guarantee high-quality sensed data, it is necessary to develop advanced computational methods to handle raw data under complex environments. Developing emerging technologies, e.g., data fusion, large language models, and artificial general intelligence, have been redefining and expanding traditional application scenarios of marine vehicles.

Guest Editors

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The *Journal of Marine Science and Engineering* (*JMSE*; ISSN 2077-1312) is an international peer-reviewed open access journal which provides an advanced forum for studies related to marine science and engineering. The journal aims to provide scholarly research on a range of topics, including ocean engineering, chemical oceanography, physical oceanography, marine biology and marine geosciences. We invite you to publish in our journal sharing your important research findings with the global ocean community.

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