



Machine Learning and Remote Sensing in Ocean Science and Engineering

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Message from the Guest Editors

The impressive recent advancements in machine learning and deep neural networks open new possibilities in ocean science and engineering. The use of convolutional neural networks to process remotely sensed multi- and hyper-spectral optical images is providing unprecedented classification opportunities in ship classification and tracking. The use of convolutional neural networks for remotely sensed SAR/ISAR images or side-scan sonar images is providing unprecedented classification accuracies. In addition, the use of autonomous platforms (such as underwater gliders, drifters, and floats) is providing a massive amount of ocean state measurements, which can be exploited by novel data assimilation schemes. Computational intelligent techniques have a clear potential to help in solving these complex tasks, frequently characterized by multiple conflicting objectives.

The purpose of the invited Special Issue is to publish the most exciting research with respect to the above subjects and to provide a rapid turn-around time regarding reviewing and publishing, and to disseminate the articles freely for research, teaching, and reference purposes.





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Message from the Editor-in-Chief

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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