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Navigation and Detection Fusion for Autonomous Underwater Vehicles

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Message from the Guest Editors

Dear Colleagues,

This Special Issue tackles critical challenges and offers innovative solutions in the realm of autonomous underwater vehicle (AUV) navigation and object detection. AUVs are pivotal in a range of marine applications, including environmental monitoring, scientific research, and defense. Explored topics encompass sensor fusion techniques, cutting-edge sonar and imaging technologies, path planning algorithms, and machine learning methods aimed at optimizing underwater exploration and data collection. The research presented in this special issue is pivotal for enhancing AUV capabilities and performance across a spectrum of underwater missions, rendering it an invaluable resource for researchers, engineers, and organizations engaged in marine technology and exploration.

This Special Issue aims to share relevant scientific work focused on everything from large-scale patterns to detailed aspects and case studies, encouraging the publication of new emerging information that contributes to knowledge in the field of navigation in general, focusing on but not limited to detection fusion for Autonomous Underwater Vehicles.

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Message from the Editor-in-Chief

Journal of Marine Science and Engineering (*JMSE*, ISSN: 2077-1312) focuses on research in the fields of Ocean Engineering, Coastal Engineering, Physical Oceanography, Geological Oceanography, Marine Biology, and Marine Environmental Science. It publishes reviews, regular research papers, and short communications, as well as Special Issues on particular subjects. Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the maximum length of the papers.

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