

Special Issue

Advancing Marine Science and Marine Ecosystem Health Through Early Diagnosis: Insights Driven by Autonomous Vehicle Platforms

Message from the Guest Editors

Comprehensive monitoring of aquatic environments requires inspecting physical, chemical, and biological states, but in situ biological sensing remains a significant challenge. Unmanned marine vehicles (UMVs) offer a powerful platform to bridge this gap through integrated sensing and sampling. Inspired by the Interreg Italy–Croatia BRIGANTINE project, which uses an Autonomous Surface Vessel (ASV) to monitor Adriatic ecosystems, this Special Issue invites contributions on the advancement of autonomous marine systems for environmental protection. We seek original research and case studies on the design, optimisation, and application of both surface and underwater vehicles in marine water, marine habitat monitoring and protection. Submissions may cover topics including novel materials, onboard sensors and software, control systems, and autonomy.

Guest Editors

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Deadline for manuscript submissions

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Message from the Editor-in-Chief

In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

Editor-in-Chief

Dr. Jean-Luc PROBST

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