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Operations and Maintenance (O&M) of Offshore Renewal Energy (ORE) Devices Using Marine Vehicles and Drones

Guest Editors:

Dr. Asiya Khan

Dr. Mario Gianni

Dr. Sulakshan Rajendran

Deadline for manuscript submissions:
closed (28 February 2025)

Message from the Guest Editors

This Special Issue aims at collecting high-quality articles including reviews contributing to the advanced techniques using marine vehicles and drones to conduct remote monitoring, environmental monitoring, upkeep, and repair of the offshore physical systems. We welcome submissions from broad topics of interest that include but are not limited to:

Artificial intelligence methods for marine vehicles and drones' control in the marine environment; Robotics and autonomous systems techniques for optimal navigation; Distributed and decentralised control; Hybrid marine vessels and intelligent control; Electric marine propulsion; Edge intelligence for remote monitoring and management; Marine hybrid/swarm systems for data collection and observation; Digital twins and multiscale modeling; Stochastic systems; System identification and modeling; Predictive maintenance and control; Fault detection and diagnosis; Health monitoring; Estimation and filtering; Multiobjective methods and optimisation; Big data systems; Human–machine systems; Other emerging applications of AI, Edge computing, and IoT; Embedded systems.

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Editor-in-Chief

Prof. Dr. Diego González-Aguilera
Cartographic and Land Engineering Department, Higher Polytechnic School of Avila, University of Salamanca, Hornos Caleros, 50 05003 Avila, Spain

Message from the Editor-in-Chief

Drones is an international open access journal focusing on advancing research in drone science, policy, technology, and applications. Today, drones have become indispensable for policymakers, regulatory authorities, mapping agencies, start-ups, and established firms. Their expanding societal and economic relevance is reflected in the rapid development of new sensors, upgraded platforms, specialized software, and novel applications. The journal provides a central forum for scholars in drone research and applications to exchange findings and innovations. With growing demand for high-quality research, our Editorial Board comprises international leaders and experts across relevant scientific areas. We offer rigorous peer review and rapid publication of papers from across all areas of drone science. We welcome you to submit your next paper to *Drones* and to contribute to the continued advancement of and innovations in the field of drones.

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Contact Us

Drones Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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mdpi.com/journal/drones
drones@mdpi.com
𝕏@Drones_MDPI