Special Issue

Collision Avoidance and Path Planning for Marine Vehicles

Message from the Guest Editor

The advent of autonomous ships heralds a new era in maritime technology, requiring the development of various critical component technologies. Among these, substantial research has traditionally concentrated on ship collision avoidance systems, both local and global path planning algorithms, automated ship control systems, berthing technologies, and sensor fusion techniques. The integration of cutting-edge technologies, such as artificial intelligence and deep learning, has become increasingly essential in advancing these research areas, driving innovation in autonomous navigation. This Special Issue seeks contributions that delve into these crucial areas and that cover a broad spectrum of theoretical, modeling, field, and laboratory research. We encourage submissions related to AI-driven autonomous navigation technologies including but not limited to the following topics:

- Ship collision avoidance systems;
- Local and global path planning algorithms;
- Autonomous docking technologies;
- Sensor fusion techniques;
- Simulation studies and sea trials.

Guest Editor

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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.

Editor-in-Chief

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