

## Special Issue

# Intelligent Optimization for Marine Vehicle Navigation and Positioning

### Message from the Guest Editors

Marine vehicle navigation and positioning systems are highly vulnerable to multiple complex disturbances during operation. These include environmental factors such as wind, waves, and currents, as well as internal issues like sensor noise and actuator hysteresis, with strong coupling effects among them. These interferences undermine system stability, compromise data accuracy and reliability, limit operational efficiency, and jeopardize the safety of offshore activities such as exploration and transportation. It is therefore essential to develop intelligent, sensor-integrated navigation and positioning strategies. This Special Issue highlights the latest theoretical advances, technological breakthroughs, and engineering applications in sensor-based intelligent navigation and positioning for marine vehicles, aiming to promote innovation and practical implementation in the field.

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