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Autonomous Maritime Navigation and Sensor Fusion

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Deadline for manuscript submissions:
closed (31 December 2021)

Message from the Guest Editors

Dear Colleagues,

In recent years, there has been a growing interest in autonomous surface vehicles (ASVs) and autonomous underwater vehicles (AUVs) for various types of applications including oceanographic surveys, scientific research, military-oriented applications, and structure monitoring. One of the most critical aspects of an autonomous vehicle is the navigation system. Therein, a wide range of sensor measurements are fused in the navigation filter to obtain the vehicle position, velocity, and orientation.

This Special Issue aims to collect high-quality research papers and review articles focusing on recent advances in autonomous maritime navigation and sensor fusion theory and applications.

Potential topics of interest include (but are not limited to):

- Innovative autonomous navigation approaches;
- Bio-inspired based navigation;
- Nonlinear estimation for sensor fusion;
- Geophysical navigation;
- Unorthodox navigation architectures such as gyro-free or angular accelerometer-based configurations;
- Cooperative navigation;
- Acoustic navigation

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Message from the Editor-in-Chief

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