Special Issue

Autonomous Maritime Navigation and Sensor Fusion

Message from the Guest Editors

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 gyrofree or angular accelerometer-based configurations;
- Cooperative navigation;
- Acoustic navigation

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Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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