# **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

### **Guest Editors**

Dr. Itzik Klein

The Autonomous Navigation and Sensor Fusion Lab (ANSFL), The Hatter Department of Marine Technologies, Charney School of Marine Sciences, University of Haifa, Haifa 3498838, Israel

#### Prof. Dr. Aboelmagd Noureldin

Department of Electrical and Computer Engineering, Royal Military College of Canada (RMCC) with Cross-Appointment at both the School of Computing and the Department of Electrical and Computer Engineering, Queen's University, ON K7L 3N6, Canada

### Deadline for manuscript submissions

closed (31 December 2021)



## Sensors

an Open Access Journal by MDPI

Impact Factor 3.5 CiteScore 8.2 Indexed in PubMed



mdpi.com/si/50588

Sensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sensors@mdpi.com

mdpi.com/journal/ sensors





# **Sensors**

an Open Access Journal by MDPI

Impact Factor 3.5 CiteScore 8.2 Indexed in PubMed



## **About the Journal**

### 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.

### Editor-in-Chief

### Prof. Dr. Vittorio M. N. Passaro

Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 Bari, Italy

## **Author Benefits**

### Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

### **High Visibility:**

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Ei Compendex, Inspec, Astrophysics Data System, and other databases.

### Journal Rank:

JCR - Q2 (Instruments and Instrumentation) / CiteScore - Q1 (Instrumentation)

