Special Issue

Navigation Systems of Autonomous Underwater and Surface Vehicles

Message from the Guest Editor

Autonomous vehicles are becoming more and more prevalent in different areas of the industry and our everyday life. Their dynamic development can also be observed for use in maritime environments, where we can distinguish unmanned surface vehicles (USVs) and unmanned underwater vehicles (UUVs). The navigation process is one of the vital tasks that such marine crafts have to perform. The application area of USVs and UUVs is very broad, and covers i.a. oceanographic research, maritime traffic and coastal areas monitoring, search and rescue, conducting inspections, maintenance, and surveillance tasks in the offshore industry. This Special Issue is aimed at presenting high quality research and the state of the art in the area of unmanned surface and underwater vehicles. The design and development of navigation systems for USVs and UUVs is the main focus of this Special Issue; therefore, papers related to applied sensors and sensor fusion, obstacle avoidance methods and systems, motion control systems, and algorithms are welcome.

Guest Editor

Dr. Agnieszka Lazarowska

Department of Ship Automation, Faculty of Marine Electrical Engineering, Gdynia Maritime University, 83 Morska Str., 81-225 Gdynia, Poland

Deadline for manuscript submissions

31 January 2026

Robotics

MDPI

About the Journal

Message from the Editor-in-Chief

It is my great pleasure to welcome you to our open access journal, *Robotics*, which is dedicated to both the foundations of artificial intelligence, bio-mechanics and mechatronics, and the real-world applications of robotic perception, cognition and actions. The 21st century is the robotics century and intelligent robots will change our lifestyle forever. Let us work together toward the realization of intelligent robots step by step.

It is great fun to create intelligent robots and imagine their practical applications. *Robotics* is now ready to serve you in the long journey towards such a goal.

Editor-in-Chief

Prof. Dr. Marco Ceccarelli
LARM2: Laboratory of Robot Mechatronics, Department of Industrial Engineering, University of Rome Tor Vergata, Via del Politecnico 1, 00133 Roma, Italy

Author Benefits

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

High Visibility:
indexed within Scopus, ESCI (Web of Science), dblp, Inspec, and other databases.

Journal Rank:
JCR - Q2 (Robotics) / CiteScore - Q1 (Control and Optimization)