



Design and Application of Underwater Vehicles and Robots

Guest Editors:

Prof. Dr. Tomás Salgado-Jiménez

Center for Engineering and Industrial Development-CIDESI,
Santiago de Queretaro,
Queretaro 76125, Mexico

Dr. Alfonso Gómez-Espinosa

Tecnologico de Monterrey,
Campus Queretaro, Ave.
Epigmenio González 500, Fracc.
San Pablo, Santiago de
Queretaro, Queretaro 76130,
Mexico

Deadline for manuscript
submissions:

31 July 2024

Message from the Guest Editors

Dear Colleagues,

Autonomous underwater vehicles (AUVs) are a challenging issue of modern robotic science. AUVs are an extremely heterogeneous group of vehicles of various sizes that are able to operate in a submarine environment with a certain degree of autonomy. In some applications, an AUV is more often referred to as an unmanned undersea vehicle (UUV). Underwater gliders are a subclass of AUVs.

This Special Issue will accept high-quality articles that contain original research results as well as review articles, and will allow readers to learn more about technologies related to the potentiality of AUVs, including, but not limited to, the following topics:

- Autonomous underwater vehicles;
- AUV design;
- AUV control;
- AUV guidance, navigation and path planning;
- AUV attitude estimation;
- Underwater target tracking;
- Vehicle modeling and simulation;
- Cooperative underwater vehicle manipulator systems;
- Intelligence and autonomy for underwater robotic vehicles;
- Underwater glider design and applications.





an Open Access Journal by MDPI

Editor-in-Chief

**Prof. Dr. Antonio J. Marques
Cardoso**

CISE—Electromechatronic
Systems Research Centre,
University of Beira Interior,
Calçada Fonte do Lameiro, P -
6201-001 Covilhã, Portugal

Message from the Editor-in-Chief

Machines is an international, peer reviewed journal on machinery and engineering. It publishes research articles, reviews and communications.

Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the length of the papers. Full experimental and/or methodical details must be provided.

There are, in addition, unique features of this journal: Manuscripts regarding research proposals and research ideas will be particularly welcomed; Electronic files or software regarding the full details of the calculation and experimental procedure - if unable to be published in a normal way can be deposited as supplementary material.

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)*, *Inspec*, and other databases.

Journal Rank: JCR - Q2 (*Engineering, Mechanical*)

Contact Us

Machines Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/machines
machines@mdpi.com
X@Machines_MDPI