

## Special Issue

# Latest Trends of Autonomous Aerial and Terrestrial Vehicles for Service Robotics Applications

### Message from the Guest Editors

In recent years, autonomous vehicles and mobile robots have been widely applied in several fields of everyday life: implementation in manufacturing processes, domestic assistance, warehouses logistics, precision agriculture, surveillance, remote presence, and much more. The last global emergency related to COVID-19 emphasized how mobile autonomous robots can be extremely important in order to provide both adequate services to the patient and to reduce the risks for health workers. This increased interest drove the research community to deeply investigate several aspects that directly affect the realization of robotic systems and increase their efficiency, safety, and accessibility to a growing set of possible users. For this Special Issue, we are looking for high quality, original research papers on the latest trends in autonomous aerial, terrestrial, or aquatic vehicles applied to the field of service robotics. The goal is a snapshot of the current research on novel mechanical structures and control strategies.

---

### Guest Editors

Prof. Dr. Giuseppe Quaglia

Dipartimento di Ingegneria Meccanica e Aerospaziale, Politecnico di Torino, 10129 Torino, Italy

Dr. Luca Carbonari

Dipartimento di Ingegneria Meccanica e Aerospaziale, Politecnico di Torino, 10129 Torino, Italy

---

### Deadline for manuscript submissions

closed (31 January 2021)



## Machines

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.1  
CiteScore 3.0



[mdpi.com/si/45155](https://mdpi.com/si/45155)

*Machines*

MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
machines@mdpi.com

[mdpi.com/journal/  
machines](https://mdpi.com/journal/machines/)





# Machines

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.1  
CiteScore 3.0



[mdpi.com/journal/  
machines](https://mdpi.com/journal/machines)



## About the Journal

### 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.

---

### 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

---

### Author Benefits

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), Inspec, and other databases.

#### Journal Rank:

JCR - Q2 (Engineering, Mechanical) / CiteScore - Q2 (Control and Optimization)

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.5 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the second half of 2024).