



Dynamics and Control of UAVs

Guest Editors:

Dr. Maria Eusebia Guerrero-Sanchez

SECIHTI-Tecnológico Nacional de México, Hermosillo 83170, Mexico

Dr. Omar Hernández-González

Instituto Tecnológico de Hermosillo, Tecnológico Nacional de México, Ave. Tecnológico y Periférico Poniente SN, Hermosillo 83170, Mexico

Deadline for manuscript submissions:

closed (20 March 2024)

Message from the Guest Editors

Dear Colleagues,

The use of unmanned aerial vehicles (UAVs) is significantly increasing to a wide range of useful tasks, such as recognition in open fields, communication, environmental monitoring, precision agriculture, transportation of packages, rescue operations, policing, professional photography, remote inspection, etc. These applications thus rely on modelling, control systems and design of control strategies for UAVs. Therefore, more studies of advanced control techniques and modeling are necessary in order to ensure that UAVs can navigate as required to carry out specific applications in a robust and reliable manner. In this context, we invite the submission of papers to this Special Issue, with a focus on new developments in modeling and advanced control techniques for UAVs and their applications.

We are soliciting high-quality original research papers on topics including but not limited to modeling and control algorithms, collision-free navigation and control, trajectory optimization, cooperative control, fault detection, nonlinear observers and applications in real fields.





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) / CiteScore - Q1 (Control and Optimization)

Contact Us

Machines Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/machines
machines@mdpi.com
[X@Machines_MDPI](https://twitter.com/Machines_MDPI)