

## Special Issue

# Advanced Control and Path Planning of Unmanned Aerial Vehicles (UAVs)

### Message from the Guest Editors

We are pleased to announce a special issue of our esteemed scientific journal focused on the advancements and challenges in Unmanned Aerial Vehicles (UAVs). UAVs have emerged as indispensable tools in various fields, offering remote-controlled or onboard computer-piloted aircraft capabilities. Particularly noteworthy is their ability to safely and securely conduct inspections in high or confined spaces. However, ensuring the safe and optimal operation of UAVs requires high-quality sensors and advanced control technology. Without these crucial components, UAVs may fail to detect potential collisions and navigate past them. Therefore, the accurate control and optimization of UAVs' paths remain key challenges in this field. As a result, research efforts have rapidly increased to enhance the accuracy and performance of UAVs. The scope of this Special Issue encompasses various aspects, including aircraft control, path planning, trajectory optimization, target tracking, among others. We invite submissions of original research articles and reviews, as we believe they will serve as valuable resources for researchers in the future.

### Guest Editors

Dr. Giuseppe Silano

Department of Cybernetics, Faculty of Electrical Engineering, Czech Technical University, 12135 Praha 2, Czech Republic

Dr. Yahui Liu

Driver-Vehicle Automation Collaboration & Shared Control Lab, School of Vehicle and Mobility, Tsinghua University, Beijing 100084, China

### Deadline for manuscript submissions

31 October 2025



## Machines

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*Machines*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[machines@mdpi.com](mailto:machines@mdpi.com)

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## 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.

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### 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

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