Special Issue

Advanced UAV Task Verification: Trajectory Generation, Planning, Control and Guidance

Message from the Guest Editor

In the area of unmanned aerial vehicles, with the ever-increasing advent of more powerful digital electronics, controllers, sensors, and technologies as well as the access to cost reduction, advanced controls, and measurement strategies are becoming feasible and affordable for the civil operation managed by SMEs. This improves market penetration of their robotics version where tasks can be achieved autonomously. As we can appreciate the drone's ever-increasing application in more areas of civil operations, research has continued to examine the control methods to generate advanced trajectory generation. It is become essential to contextualize and specialize the control strategies in order to target and achieve the specifics of tasks requiring very specialized performance criteria. From the robotics and controls point of view, trajectory generation requires examining and studying formal methods which allow for generating proper path planning, path control and path guidance. This Special Issue aims at collecting new developments and methodologies, best practices and applications of UAVs in task verification related to trajectory or path analysis where generation includes.

Guest Editor

Dr. Luc Rolland
School of Computing, Engineering and Physical Sciences, University of the West of Scotland, Glasgow, UK

Deadline for manuscript submissions

closed (31 October 2023)

Drones

an Open Access Journal by MDPI

Impact Factor 4.8
CiteScore 7.4

mdpi.com/si/155831

Drones
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
drones@mdpi.com

mdpi.com/journal/drones

Drones

an Open Access Journal by MDPI

Impact Factor 4.8
CiteScore 7.4

mdpi.com/journal/drones

About the Journal

Message from the Editor-in-Chief

Drones is an international open access journal focusing on advancing research in drone science, policy, technology, and applications. Today, drones have become indispensable for policymakers, regulatory authorities, mapping agencies, start-ups, and established firms. Their expanding societal and economic relevance is reflected in the rapid development of new sensors, upgraded platforms, specialized software, and novel applications. The journal provides a central forum for scholars in drone research and applications to exchange findings and innovations. With growing demand for high-quality research, our Editorial Board comprises international leaders and experts across relevant scientific areas. We offer rigorous peer review and rapid publication of papers from across all areas of drone science. We welcome you to submit your next paper to *Drones* and to contribute to the continued advancement of and innovations in the field of drones.

Editor-in-Chief

Prof. Dr. Diego González-Aguilera
Cartographic and Land Engineering Department, Higher Polytechnic School of Avila, University of Salamanca, Hornos Caleros, 50 05003 Avila, Spain

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, Ei Compendex and other databases.

Journal Rank:

JCR - Q1 (Remote Sensing) / CiteScore - Q1 (Aerospace Engineering)

MDPI