

Special Issue

Advances in Quadrotor Unmanned Aerial Vehicles

Message from the Guest Editor

In recent times, unmanned aerial vehicles (UAVs) have played pivotal roles in many different applications. As a major member of the UAV family, quadrotor UAVs have experienced an explosive growth in number and are widely used for aerial photography, environmental monitoring, disaster relief, emergency rescue, express delivery, precision agriculture, and so on. However, due to diverse tasks, harsh environments, and complex constraints, quadrotor UAVs have suffered from various challenges in terms of reliability, robustness, and flexibility. Thus, designing quadrotor UAVs with better intelligence, exquisite functions, and advanced performances are critical. From a methodological perspective, we are interested in studies that go beyond traditional approaches. Potential topics include, but are not limited to, the following topics: (1) Overall design and optimization; (2) Load design and application; (3) Multiple drone clusters; (4) Online mission planning; (5) Robust and intelligent control; (6) Sensors and actuators.

Guest Editor

Dr. Yueneng Yang

Department of Aeronautics and Astronautics, College of Aerospace Science and Engineering, National University of Defense Technology, Changsha 410073, China

Deadline for manuscript submissions

closed (20 June 2025)



Drones

an Open Access Journal
by MDPI

Impact Factor 4.8
CiteScore 7.4



mdpi.com/si/176395

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

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





Drones

an Open Access Journal
by MDPI

Impact Factor 4.8
CiteScore 7.4



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



About the Journal

Message from the Editor-in-Chief

Drones is the only international open-access journal about the science, policy and technology of drones and its applications. Nowadays, the proliferation of drones is a reality for local policy makers, regulatory bodies, mapping authorities, startups and consolidated companies. There are many uses and benefits of drones: from the emergence of new sensors and the evolution of new platforms; to the development of specific software and the emergence of new applications. *Drones* publishes reviews, regular research papers, communications and short notes, without restriction on the length of papers. *Drones* seeks to provide a central forum for scholars engaged in drones' research and applications.

There is a need for high quality papers in this area and the *Drones* Editorial Board are widely recognized international leaders. *Drones* journal guarantees a serious peer review and a rapid publication across the whole discipline 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)