

Special Issue

Aerodynamics, Stability, Guidance, Navigation and Control of Micro-Air Vehicles: Recent Advances and Challenges

Message from the Guest Editors

The Special Issue welcomes papers of high scientific quality addressing the aerodynamic aspects, stability characteristics, propulsion mechanisms of MAVs, theoretical and experimental investigations of novel designs, the development and demonstration of advanced control strategies for guidance and navigation for a single and multiple MAVs, new strategies, and methods for aerial manipulation and transport. We invite submissions on, but not limited to, the following subject areas:

- Unsteady aerodynamics of flapping/rotating wings;
- Propulsion mechanisms of air vehicles;
- Navigation, guidance, and flight control;
- Cooperative control of aerial vehicles;
- Formation control of MAVs systems;
- Aerial manipulation and control;
- Machine learning for air vehicle applications;
- Bio-inspired air vehicle designs;
- Structural analysis of air vehicles;
- Flight tests.

Guest Editors

Dr. Mehdi Ghommam

Dr. Jawhar Ghommam

Dr. Brahim Brahmi

Prof. Dr. Quanmin Zhu

Deadline for manuscript submissions

closed (1 September 2022)



Drones

an Open Access Journal
by MDPI

Impact Factor 4.8
CiteScore 7.4



mdpi.com/si/92199

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)