# **Special Issue**

# From Nature to Flight: Bio-Inspired UAV Design and Intelligence

# Message from the Guest Editors

Unmanned aerial vehicles (UAVs) play vital roles across many domains, yet challenges remain in autonomy, energy efficiency, and adaptability. Nature offers powerful inspiration for addressing these through bioinspired principles such as neuromorphic intelligence, flapping-wing locomotion, swarm behavior, and adaptive design. This *Special Issue* invites original research and reviews on bio-inspired approaches to UAV autonomy and design, covering topics such as:

- Bio-inspired perception, navigation, and decisionmaking
- Nature-inspired flight and morphology
- Energy-efficient and swarm UAV systems
- Neuromorphic sensing and processing

We look forward to your contributions.

Prof. Dr. Sean Humbert

#### **Guest Editors**

Dr. Chahat Deep Singh Dr. J. Sean Humbert Dr. Kaushik Jayaram

# Deadline for manuscript submissions

15 April 2026



# **Drones**

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# **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

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