

## Special Issue

# Control, Planning, and Embodied Intelligence of Agile UAVs in Indoor Environments

### Message from the Guest Editors

This Special Issue focuses on advancements in autonomous flight of unmanned aerial vehicles (UAVs) in complex indoor environments, which present unique challenges like GPS-denied conditions and dynamic obstacles. Effective navigation requires high-performance control systems, agile motion planning, and integrated perception and decision-making capabilities. We invite contributions addressing challenges such as precise state estimation, real-time obstacle avoidance, robust control under disturbances, and adaptation to cluttered environments. Topics of interest include agile flight control, perception-aware motion planning, vision-based navigation, learning-based control policies, and the design of lightweight UAV platforms. We look forward to original research articles and reviews that enhance this exciting field.

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### Guest Editors

Dr. Minghao Han

Dr. Bo Cai

Dr. Lin Zhao

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### Deadline for manuscript submissions

30 December 2025



## 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.

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### Editor-in-Chief

Prof. Dr. Diego González-Aguilera

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