Special Issue

Optimal Design, Dynamics, and Navigation of Drones

Message from the Guest Editors

By exploring the new frontiers, research is driving innovation in drone technology, paving the way for new applications and use cases in a wide range of fields. These advancements have the potential to revolutionize industries, including agriculture, construction, and logistics, and provide new solutions to challenges of disaster response and environmental monitoring. As drone technology continues to evolve, there are still many exciting opportunities for further research and development. This Special Issue aims to bring together the latest research in the field of drone technology, with a focus on the optimal design, dynamics, and navigation of drones. The papers included in this Issue will provide insights into the current state of the art and the future directions of drone technology. Topics of interest include, but are not limited to, the following:

- Novel drone designs and architectures
- Aerodynamic modeling and optimization
- Flight control and stability
- Autonomous navigation and path planning
- Sensor fusion and perception

Applications in various fields, such as agriculture, transportation, surveillance, and search and rescue.

Guest Editors

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Deadline for manuscript submissions

closed (21 March 2025)

Drones

an Open Access Journal by MDPI

Impact Factor 4.8
CiteScore 7.4

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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

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