

## Special Issue

# Unmanned Aerial Vehicles (UAVs) Applications in Critical Industrial Sectors

### Message from the Guest Editors

This Special Issue will focus on the pivotal role of UAVs in enhancing operations within critical industrial sectors. Key areas of interest include, but are not limited to, infrastructure inspection and maintenance, safety monitoring, environmental impact assessments, and operational efficiency in nuclear stations, and the oil and gas processing sectors. This Special Issue will welcome manuscripts that discuss the following themes:

- Novel UAV designs that improve indoor flyability, especially in complex industrial environments;
- Innovative UAV designs that enhance and optimize interactions when operating near surfaces;
- Novel sensors that are well suited to UAV applications in industrial sectors including those for ecological assessments and pollution tracking inside facilities;
- Advanced UAV designs for hazardous environments, such as nuclear power stations, energy facilities, etc.;
- Advanced systems for precise UAV localization in industrial sectors;
- The use of UAVs for non-destructive testing, especially those that can perform quantitative inspections.

We look forward to receiving your original research articles and reviews.

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### Guest Editors

Dr. Dayi Zhang

Prof. Dr. Gordon Dobie

Dr. Jesus Enrique Sierra-Garcia

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### Deadline for manuscript submissions

20 August 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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