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# UAV Design and Applications in Antarctic Research

Guest Editors:

**Dr. Anna Zmarz**

**Dr. Rune Storvold**

**Dr. Osama Mustafa**

Deadline for manuscript submissions:
**closed (30 November 2022)**

## Message from the Guest Editors

Dear Colleagues,

Nowadays, different types of unmanned aerial systems (UASs) are widely used for multiple civilian purposes, such as archaeology, hydrology, forestry, precision agriculture, glaciology, or environmental monitoring. In the Antarctic, UAS-based surveys are still mostly in an experimental phase.

Unmanned aerial systems, as an alternative to manned aircraft, are excellent, less invasive, safe tools, which are crucial characteristics, especially in sensitive Antarctic regions. The use of UAS operations in polar regions has improved environmental monitoring by extending the study area, increasing safety, reducing human footprints, increasing precision, and saving time.

This Special Issue is inspired by the successful work of many UAS teams in Antarctica. This Special Issue will address (but is not limited to) the following unique issues and challenges in the Antarctic:

- Communication;
- Platform navigation;
- Platform robustness;
- Cross platform opportunities;
- Sensor inter comparison;
- Collecting data;
- Risk management.

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## Editor-in-Chief

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## 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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