

Special Issue

Recent Advances in Crop Protection Using UAV and UGV

Message from the Guest Editors

Unmanned technologies are currently developing rapidly and bringing revolutionary change to agriculture. It is important to ensure plant protection in order to obtain high-yield and high-quality agricultural production. For agricultural and forestry plant protection applications, theoretical and technical innovation of UAVs (unmanned aerial vehicles) and UGVs (unmanned ground vehicles) is mounting around the world, and spraying applications using UAVs and UGVs have expanded rapidly. Specifically, UAV-based remote sensing technology supports the accurate monitoring of disease, pests and weeds by the acquisition and analysis of high-precision and high-frequency crop information. This Special Issue targets novel scientific ideas, schemes, results, possible applications, and new challenges and perspectives devoted to the UAV and UGV assistance paradigm and everything around crop protection using UAVs and UGVs. Prof.

Co-

Guest Editors

Prof. Dr. Ruirui Zhang

Dr. Andrew Hewitt

Dr. Ahamed Tofael

Deadline for manuscript submissions

closed (16 May 2025)



Drones

an Open Access Journal
by MDPI

Impact Factor 4.8
CiteScore 7.4



mdpi.com/si/120641

Drones
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
drones@mdpi.com

[mdpi.com/journal/
drones](https://mdpi.com/journal/drones)





Drones

an Open Access Journal
by MDPI

Impact Factor 4.8
CiteScore 7.4



[mdpi.com/journal/
drones](https://mdpi.com/journal/drones)



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

Cartographic and Land Engineering Department, Higher Polytechnic School of Avila, University of Salamanca, Hornos Caleros, 50 05003 Avila, Spain

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High visibility:

indexed within Scopus, SCIE (Web of Science), Inspec, Ei Compendex and other databases.

Journal Rank:

JCR - Q1 (Remote Sensing) / CiteScore - Q1 (Aerospace Engineering)