





an Open Access Journal by MDPI

Recent Advances in Crop Protection Using UAV and UGV

Guest Editors:

Prof. Dr. Ruirui Zhang

Beijing Academy of Agricultural and Forestry Sciences, Beijing 100097, China

Dr. Andrew Hewitt

School of Agriculture and Food Sciences, The University of Queensland, Gatton, QLD 4343, Australia

Dr. Ahamed Tofael

Associate Professor, Faculty and Life and Environmental Sciences, University of Tsukuba, 1-1-1 Tennodai, Tsukuba 305-8572, Japan

Deadline for manuscript submissions:

30 November 2024

Message from the Guest Editors

Dear Colleagues,

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. Dr. Ruirui Zhang

Guest Editors

Dr. Andrew Hewitt Dr. Ahamed Tofael Co-Guest Editors











an Open Access Journal by MDPI

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

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.

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)

Contact Us