

## Special Issue

# UAVs and Satellite Data for Forest Protection: Remote Sensing, Monitoring, Fire Detection and Emergency Management

### Message from the Guest Editors

Forests are subject to several risks, ranging from illegal logging to desertification and wildfires, which require the employment of complex protection systems that use a broad spectrum of specialized technologies. In this direction, UAVs offer the capability of remotely monitoring vast areas and dynamically responding to emergency scenarios, a feature that ground sensor networks and human operators cannot provide as effectively. This Special Issue aims at providing an overview of the latest applications and developments in forest protection systems that benefit from aerial drones, also encouraging contributions that combine satellite information and ground data with aerial measurements.

Potential topics of interest include but are not limited to:

- Fire detection;
- UAV patrolling and surveillance systems;
- Formation control;
- Flight control systems;
- Remote sensing hardware design;
- UAV intelligence;
- Data fusion techniques for forest protection;
- Machine learning for pattern recognition and anomaly detection.

---

### Guest Editors

Dr. Alessandro Giuseppe

Department of Computer Control and Management Engineering,  
University of Rome "La Sapienza", 00168 Rome, Italy

Dr. Francesco Liberati

Department of Computer, Control and Management Engineering  
"Antonio Ruberti", University of Rome "La Sapienza", Via Ariosto 25,  
00185 Roma, Italy

---

### Deadline for manuscript submissions

closed (31 August 2022)



## Drones

---

an Open Access Journal  
by MDPI

---

Impact Factor 5.2  
CiteScore 10.0



[mdpi.com/si/95898](https://mdpi.com/si/95898)

*Drones*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[drones@mdpi.com](mailto:drones@mdpi.com)

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





# Drones

---

an Open Access Journal  
by MDPI

---

Impact Factor 5.2  
CiteScore 10.0



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



## About the Journal

### Message from the Editor-in-Chief

*Drones* is an international open access journal focusing on advancing research in drone science, policy, technology, and applications. Today, drones have become indispensable for policymakers, regulatory authorities, mapping agencies, start-ups, and established firms. Their expanding societal and economic relevance is reflected in the rapid development of new sensors, upgraded platforms, specialized software, and novel applications. The journal provides a central forum for scholars in drone research and applications to exchange findings and innovations. With growing demand for high-quality research, our Editorial Board comprises international leaders and experts across relevant scientific areas. We offer rigorous peer review and rapid publication of papers from across all areas of drone science. We welcome you to submit your next paper to *Drones* and to contribute to the continued advancement of and innovations in the field 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 - Q2 (Remote Sensing) / CiteScore - Q1 (Aerospace Engineering)