

## Special Issue

# Applications of UAVs in Cold Region Ecological and Environmental Studies

### Message from the Guest Editors

Lightweight unmanned aerial vehicles (UAVs) have developed rapidly due to the miniaturization of parts and the low cost of various sensors, and embedded computers and have become a popular, low-cost platform for ecological and environmental studies. This platform is especially valuable for harsh environments, for example, the Qinghai–Tibetan Plateau and the Arctic. UAVs also have the following advantages: (1) high spatial and temporal resolution when compared with satellite remote sensing; (2) high efficiency, large ground coverage, and non-destruction when compared with ground sampling; and (3) as a bridge between satellites for remote sensing and ground sampling. With these advantages, UAVs have been applied to investigate the vegetation cover, biomass, patch, yak, plateau pika, gravel, and biodiversity, etc., of cold regions over the recent years. For this Special Issue, we seek articles on the application of UAVs in, but not limited to, cold region ecology and environment, at various spatial scales, from quadratic to plot and regional scale. Articles on the applications of UAV in permafrost and periglacial environments are especially welcome.

---

### Guest Editors

Dr. Shuhua Yi

Dr. Go Iwahana

Dr. Yu Qin

Dr. Yi Sun

---

### Deadline for manuscript submissions

closed (28 February 2021)



## Remote Sensing

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.1  
CiteScore 8.6



[mdpi.com/si/33994](https://mdpi.com/si/33994)

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

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





# Remote Sensing

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.1  
CiteScore 8.6



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



## About the Journal

### Message from the Editor-in-Chief

*Remote Sensing* is now a prominent international journal of repute in the world of remote sensing and spatial sciences, as a pioneer and pathfinder in open access format. It has highly accomplished global remote sensing scientists on the editorial board and a dedicated team of associate editors. The journal emphasizes quality and novelty and has a rigorous peer-review process. It is now one of the top remote sensing journals with a significant Impact Factor, and a goal to become the best journal in remote sensing in the coming years. I strongly recommend *Remote Sensing* for your best research publications for a fast dissemination of your research.

---

### Editor-in-Chief

Dr. Prasad S. Thenkabail

Senior Scientist (ST), U. S. Geological Survey (USGS), USGS Western Geographic Science Center (WGSC), 2255, N. Gemini Dr., Flagstaff, AZ 86001, USA

---

### 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), Ei Compendex, PubAg, GeoRef, Astrophysics Data System, Inspec, dblp, and other databases.

#### Journal Rank:

JCR - Q1 (Geosciences, Multidisciplinary) / CiteScore - Q1 (General Earth and Planetary Sciences)