Special Issue

Environmental Monitoring Using UAV and Mobile Mapping Systems

Message from the Guest Editor

With the increase in global population and decrease in available resources, we have an unprecedented need to develop accurate, affordable tools for the digital documentation and inventory of our environment. Mobile mapping systems equipped with passive and active sensing modalities have been proven as accurate modalities for the accurate documentation of our surroundings. Advances in direct georeferencing technologies (i.e., integrated global navigation satellite systems and inertial navigation systems—GNSS/INS), passive sensing technologies operating in different portions of the electromagnetic spectrum (e.g., multi-spectral, and hyperspectral cameras), active ranging systems (e.g., linear and single-photon light detection and ranging—LiDAR), and platforms (e.g., crewed and uncrewed aerial/ground vehicles) are providing unprecedented opportunities for the accurate, up-to-date, and affordable mapping of our environment. This Special Issue is seeking contributions that deal with different aspects of using mobile mapping technologies, in general, and uncrewed aerial vehicles, in particular, for environmental monitoring applications.

Guest Editor

Prof. Dr. Ayman F. Habib

Lyles School of Civil Engineering, Purdue University, West Lafayette, IN 47907, USA

Deadline for manuscript submissions

closed (25 May 2025)

Remote Sensing

an Open Access Journal by MDPI

Impact Factor 4.1
CiteScore 8.6

mdpi.com/si/178730

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

mdpi.com/journal/remotesensing

Remote Sensing

an Open Access Journal by MDPI

Impact Factor 4.1
CiteScore 8.6

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)