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Integrating Remote Sensing in Land Surface Monitoring and Agricultural Applications

Guest Editors:

Dr. Long Zhao
School of Geographical Sciences, Southwest University, Chongqing, China

Prof. Dr. Maruthi Sridhar Balaji Bhaskar
Department of Earth and Environment, Florida International University, Miami, FL 33199, USA

Dr. Yang Lu
School of Civil Engineering, Sun Yat-sen University, Guangzhou 510275, China

Deadline for manuscript submissions:
closed (31 December 2023)

Message from the Guest Editors

This Special Issue addresses many aspects, including soil mapping and spatial modeling of land surface characteristics, precision agriculture, geostatistics, machine learning, and development of software tools for data collection and processing. Contributions include the following:

- Mapping and spatial modeling of soil properties using GIS and remote sensing;
- New GIS and remote sensing approaches in agricultural applications that make use of machine and deep learning algorithms;
- Advances in remote sensing techniques to provide (time series of) spatially distributed soil moisture data;
- Applications of remotely sensed soil moisture data including data assimilation and disaster assessment;
- Approaches for the harmonised processing of data coming from different sensors to construct longer, coherent, soil moisture records;
- Studies using data assimilation, e.g., into hydrological models, plant growth models or discussing concepts;
- Retrieval algorithms, in particular using multi-wavelength, active and passive data, both based on physical models and data-driven methods;

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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

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.

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Contact Us

Remote Sensing Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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