

Special Issue

Global Gridded Soil Information Based on Machine Learning

Message from the Guest Editors

Recent technological advances in both remote sensing and soil mapping approaches and progress in establishing harmonized soil profile datasets have opened up the potential to derive global gridded soil information. Machine learning algorithms are among the most frequently used tools for data preprocessing and describing the complex relationship between soil properties and environmental covariates with the ability to assess the uncertainty of the predictions. This Special Issue is dedicated to machine learning-based methods in:

- proximal and digital global mapping of soil properties;
- computing systems/algorithms/approaches using Earth observation data to derive global gridded soil datasets;
- preprocessing Earth observation data to feed into global soil mapping;
- data-intensive computing methods for incorporating Earth observation data for predictive soil mapping;
- optimizing temporal resolution to globally track the changes of soil properties;
- uncertainty assessment of the derived gridded soil information;
- specifying algorithms to local soil specificities;
- the engagement of remote sensing data with digital soil mapping;
- other related topics.

Guest Editors

Dr. Brigitta Szabó (Tóth)

Prof. Dr. Eyal Ben-Dor

Dr. Yijian Zeng

Dr. Salvatore Manfreda

Dr. Madlene Nussbaum

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

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Message from the Editorial Board

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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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

Prof. Dr. Dongdong Wang

Institute of Remote Sensing and Geographic Information Systems, Peking University, Beijing, China

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