



an Open Access Journal by MDPI

Deep Learning and Big Data Mining with Remote Sensing

Guest Editors:

Dr. Bandana Kar

National Security Sciences
Directorate, Oak Ridge National
Laboratory, Knoxville, TN 37831,
USA

Dr. Guido Cervone

Institute for Computational and
Data Sciences&Earth and
Environmental Systems Institute,
Department of Geography, The
Pennsylvania State University,
University Park, PA 16802, USA

Dr. Xinyue Ye

Department of Landscape
Architecture and Urban
Planning&Urban Data Science
Lab, Texas A&M University,
College Station, TX 77843, USA

Deadline for manuscript
submissions:

closed (31 August 2023)

Message from the Guest Editors

The aim of this Special Issue is to publish basic and empirical research focused on (i) applying AI/DL along with remote sensing for different applications, with a specific focus given to extreme events; (ii) developing new data and image fusion techniques and statistical/mathematical models that allow high spatio-temporal resolution products to be derived; and (iii) assessing quality issues, including ethics, privacy and reproducibility/replicability of the derived products. The Special Issue contributes to the journal's goal to publish methodological and applied papers pertaining to every aspect of remote sensing.

- Challenges in collecting, processing and analyzing Big Data for real-time applications;
- Data fusion of multi-source and/or heterogeneous datasets;
- Privacy, reproducibility and replicability of remote sensing and AI-derived products;
- Geo-visualization techniques to analyze and visualize remote sensing data;
- Technological advances in hardware and data management;
- Large-scale spatial data mining;
- Spatial downscaling;
- Virtual 3D mapping and analysis using remote sensing data.



mdpi.com/si/120120

Special Issue



an Open Access Journal by MDPI

Editors-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

Prof. Dr. Dongdong Wang

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

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.

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)

Contact Us

Remote Sensing Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/remotesensing
remotesensing@mdpi.com
[X@RemoteSens_MDPI](https://twitter.com/RemoteSens_MDPI)