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Deep Learning and Big Data Mining with Remote Sensing

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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



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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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