

## Special Issue

# Deep Learning for Remote Sensing and Geodata

### Message from the Guest Editors

In the last decades, AI has evolved from classical machine learning models (Random Forest, Support Vector Machines, etc.) to deep learning (Convolutional Neural Networks, etc.) and then to foundational models. Foundational models based on self-supervised learning trained on massive heterogeneous datasets can be tuned to various downstream tasks on the backbone of the same model. While the foundational models are exposed to different types of data (multispectral, radar, LiDAR, crowdsourced data), there is ongoing interest in understanding the performance and generalizability of these models for multiple applications. Of ongoing interest is the comparison of foundational models with classical deep learning models and benchmarking the accuracy and reproducibility of these models. We encourage submissions of original manuscripts that focus on scalable AI methodologies and benchmark dataset creation to develop foundational models and to characterize network architecture and applications based on remote sensing data.

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### Guest Editors

Dr. Levente Klein

Dr. Conrad M. Albrecht

Prof. Dr. Martin Werner

Dr. Salman Khan

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### Deadline for manuscript submissions

20 March 2025



## Remote Sensing

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*Remote Sensing*  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[remotesensing@mdpi.com](mailto:remotesensing@mdpi.com)

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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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### 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

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