# Special Issue

# Advanced Artificial Intelligence for Remote Sensing: Methodology and Applications

## Message from the Guest Editors

This Special Issue emphasizes the latest advancements in AI algorithms, models, and techniques that have been specifically developed or adapted for remote sensing applications. It aims to showcase novel methodologies, innovative applications, and case studies that demonstrate the potential of AI in addressing real-world challenges in agriculture, urban planning, forestry, climate change, and other domains. Potential topics of interest include, but are not limited to:

- AI-driven image classification and recognition in remote sensing.
- Deep learning techniques for feature extraction and representation learning from remote sensing data.
- The fusion of multi-source remote sensing data using AI-based approaches.
- Semantic segmentation and object detection in remote sensing images
- AI-based approaches for change detection and monitoring using remote sensing data.
- AI-enabled hyperspectral and LiDAR data analysis.
- Transfer learning and domain adaptation for remote sensing applications.
- Case studies and applications of AI in remote sensing for agriculture, urban planning, forestry, climate change, etc.

## Guest Editors

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Prof. Dr. Qi Zhao

Dr. Paolo Tripicchio

Dr. Hossein M. Rizeei

## Deadline for manuscript submissions

closed (30 June 2024)

**Remote Sensing**

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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.

### Editor-in-Chief

Dr. Prasad S. Thenkabail
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