

Special Issue

Deep Learning for Remote Sensing Image Scene Classification

Message from the Guest Editor

The aim of this Special Issue on Deep Learning for Remote Sensing Image Scene Classification is to bring together cutting-edge research and advancements in the application of deep learning techniques to remote sensing imagery. The topics of interest for this Special Issue are as follows:

- Advanced deep learning architectures;
- Exploration of hybrid models that combine multiple deep learning techniques to enhance classification performance;
- Transfer learning and domain adaptation;
- Role of synthetic data and simulation in training deep learning models when real-world labeled datasets are limited;
- Multispectral and hyperspectral image classification;
- Challenges of spectral variability and high dimensionality in remote sensing data;
- Spatio-temporal analysis;
- Application of deep learning for monitoring environmental changes, urban dynamics, and disaster evolution over time;
- Big data and cloud computing;
- Scalable deep learning solutions;
- Parallelization and optimization of learning workflows;
- Explainability and interpretability using deep learning to offer insights into the decision-making process of scene classification
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Guest Editor

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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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