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Towards Practical Application of Artificial Intelligence in Remote Sensing

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Deadline for manuscript submissions:
closed (20 October 2021)

Message from the Guest Editors

Artificial intelligence (AI) is gaining more and more attention in remote sensing today. There are many successful stories of using neural networks on remote sensing datasets to solve Earth system science problems. However, practically using them in real-world scenarios is still very challenging and requires advanced computational resources and detailed AI engineering. This Special Issue will discuss the latest progresses on the full-stack workflow of using AI models on remote-sensed or field-observed geospatial datasets, including satellite imageries, aerial images, ground sensor networks, model simulations, reanalysis, radar data, surveyed tables, etc. The aim is to bring together community experiences to refine our theory and technology on building, integrating, and utilizing AI models to practically address remote sensing-related challenges raised in solving the critical Earth system science problems.

- land cover/land use classification;
- remote sensing-based atmospheric science;
- remote sensing-based Earth science;
- agricultural remote sensing;
- remote sensing-based biology;
- remote sensing-based polar science;
- remote sensing-based hydrology;
- …

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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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