Special Issue

AI-Driven Mapping Using Remote Sensing Data

Message from the Guest Editors

With the fast development of AI techniques such as deep learning, knowledge graphs, and large language models (or foundation models), mapping with remote sensing data has reached unprecedented levels of resolution, accuracy, semantic richness, and automation. This Special Issue will study the AI-driven mapping of remote sensing data by considering novel applications, model design principles, and benchmarking model performances. This Special Issue may cover topics related to AI-driven research into task-oriented remote sensing data processing and applications, data-oriented model design, and benchmark dataset construction and assessment. Articles may address, but are not limited to, the following topics:

- AI-driven interpretation of remote sensing images;
- AI-driven data fusion of remote sensing data and volunteered geographic information;
- AI-driven urban modeling using remote sensing and geospatial data;
- AI-driven environment sensing using mobile sensing data;
- Spatially explicit AI-driven method using remote sensing and geospatial data;
- Crowdsourcing labels for AI-driven methods using remote sensing and geospatial data.
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Guest Editors

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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

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