Special Issue

AI-Driven Hyperspectral Remote Sensing of Atmosphere and Land

Message from the Guest Editors

Hyperspectral remote sensing provides rich spectral information that is critical for understanding atmospheric and land surface processes. The emergence of artificial intelligence (AI), particularly deep learning, has revolutionized the analysis of hyperspectral remote sensing data. Deep learning models can efficiently extract complex features, improve retrieval accuracy, and enhance classification and predictive capabilities. By integrating AI-driven techniques with hyperspectral observations, researchers can unlock new possibilities for improving atmospheric and land surface monitoring. This Special Issue aims to bring together state-of-the-art research on the application of AI, particularly deep learning, in processing and analyzing hyperspectral data for both atmospheric and land studies. It seeks to provide a platform for exploring novel methodologies, theoretical advancements, and practical applications of AI in hyperspectral remote sensing. The scope aligns with the journal's focus on remote sensing technologies, data analysis, and geospatial applications, emphasizing innovative AI-driven solutions.

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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