

Special Issue

Assessment of Methane Emission from Rice Paddies and Water Management Using Remote Sensing Technology

Message from the Guest Editors

"Methane is one of the most important greenhouse gases causing climate change, and there are significant methane emissions from paddy fields in Asia and other regions. Recently, there have been many studies assessing methane emissions from rice paddy fields and water management using remote sensing as a complemental MRV system in a cost- and time-effective way. This Special Issue aims to present articles that focus primarily on assessing methane emissions from rice paddy fields and water management using remote sensing and AI/ML. The Special Issue welcomes articles concerning novel approaches or case studies in the study of remote sensing. Topics can be related, but not limited, to the following:

- Water level change detection in paddy fields using remote sensing technology;
- Polarimetric SAR change detection of water level;
- Hyperspectral or MSS remote sensing change detection of water level and rice crop growth or biomass;
- Adversarial and/or IOT learning with field survey for change detection of water level or rice crop growth or biomass;
- Explainable AI for change detection of water level with GHG emission assessment."

Guest Editors

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Deadline for manuscript submissions

30 November 2025



Remote Sensing

an Open Access Journal
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Impact Factor 4.2
CiteScore 8.6



mdpi.com/si/229909

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About the Journal

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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