Remote Sensing in Agricultural Hydrology and Water Resources Modeling

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Message from the Guest Editors

Agricultural water use covers about 70% of total water use in the world, most of which is used for irrigation. In recent years, remote sensing (RS)-based models have provided efficient tools for agricultural hydrology and water resources modeling in irrigation districts. However, agricultural hydrology and water resources modeling in irrigation district scale is still challenging, due to the complex interactions among hydrological processes, agricultural water management, and crop planting pattern and growth.

This Special Issue is inviting manuscripts on the following topics:

- RS-based retrieval methods for soil moisture and salinity
- RS-based crop evapotranspiration modeling
- RS-based agro-hydrological modeling in irrigation district scale
- RS-based assessments of irrigation efficiency and crop water productivity
- RS-based optimization of irrigation water and crop planting pattern
- RS-based impact assessment of irrigation practices on ecosystems and environment
- Other topics related to RS-based agricultural hydrology and water resources modeling

Special Issue

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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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