



## GIS Modelling of Evapotranspiration with Remote Sensing

Guest Editors:

**Dr. Sonam Sandeep Dash**

Postdoctoral Researcher, School of Civil Engineering, University College Dublin, Dublin, Ireland

**Dr. Pooja P. Preetha**

Department of Civil Engineering, Alabama A&M University, Huntsville, AL 35782, USA

**Dr. Han Chen**

Postdoctoral Researcher, School of Civil Engineering, Nankai University, Tianjin, China

Deadline for manuscript submissions:

**closed (31 May 2025)**

### Message from the Guest Editors

Evapotranspiration (ET) can be estimated from the complex surface energy balance equations. This process plays a decisive role in various water resource management activities, including the required irrigation water, vegetation–atmosphere interactions, and terrestrial ecosystem productivity over a range of spatial and temporal domains. However, the reliable estimation of ET, characterized by complex vegetation–atmosphere interactions, is limited by scarce data availability and a lack of expertise in conceptualizing the real field scenario.

This Special Issue provides an opportunity for budding researchers to publish their research outcomes related to remote sensing applications in evapotranspiration mapping. This Special Issue invites research articles including but not limited to:

- Catchment-scale Evapotranspiration monitoring
- MODIS ET product for vegetation monitoring
- GIS-based crop planning
- Remote sensing-based hydrological water balance assessment
- Spatiotemporal vegetation health monitoring
- Evapotranspiration modeling under scarce data availability scenario
- Modeling evapotranspiration with soil moisture estimates





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### Prof. Dr. Ezio Todini

Italian Hydrological Society,  
Piazza di Porta San Donato 1,  
40126 Bologna, Italy

## Message from the Editor-in-Chief

Hydrology is the study of the waters of the Earth. Hydrology has close ties with hydraulics, hydrogeology and the multiple sciences that study the atmosphere, the land surface, the soil and the subsoil, and ranges from complex problems of risk, forecasting and optimization of water resources to interactions with ecological, urban, social and economic systems.

The purpose of *Hydrology* is then to provide a journal where research results and real-world problems can be presented and discussed in order to bridge the traditional gaps between the academic world and the professionals and decision makers. Therefore, *Hydrology*, invites authors to submit their original theoretical, field, experimental, and numerical studies on hydrology with strong emphasis on multidisciplinary approaches and interdisciplinary topics, which cross the typical boundaries of our science.

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*Hydrology* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

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