

Special Issue

GIS Modelling of Evapotranspiration with Remote Sensing: 2nd Edition

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

Guest Editors

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Deadline for manuscript submissions

31 May 2026



Hydrology

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 5.9



mdpi.com/si/259935

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About the Journal

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.

Editor-in-Chief

Prof. Dr. Ezio Todini

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Author Benefits

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(Oceanography)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.9 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).