

## Special Issue

# Hydrological Modeling with AI in Forests

### Message from the Guest Editors

Forests regulate critical water and energy cycles, but their complex hydrological processes remain challenging to model. Machine Learning (ML) offers innovative solutions by integrating multi-source data (e.g., sensors, remote sensing) to predict and analyze ecohydrological dynamics. This Special Issue explores cutting-edge ML applications in forest hydrology, including:

- Advanced hydrological predictions
- Process representation and modeling
- Explainable AI and physics-informed learning
- Ecohydrological feedbacks and sustainable management

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### Guest Editors

Dr. André Ferreira Rodrigues

Department of Hydraulics and Water Resources, School of Engineering, Federal University of Minas Gerais (UFMG), Belo Horizonte, Brazil

Dr. Carlos Rogério Mello

Water Resources Department, Engineering School, Federal University of Lavras, Lavras 37200-000, MG, Brazil

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### Deadline for manuscript submissions

18 June 2026



## Forests

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Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[forests@mdpi.com](mailto:forests@mdpi.com)

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## About the Journal

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*Forests* (ISSN 1999-4907) is an international and cross-disciplinary, scholarly forestry journal. The distinguished editorial board and refereeing process ensures the highest degree of scientific rigor and review of all published articles. Original research articles and timely reviews are released online, with unlimited free access. Our goal is to have *Forests* be recognized as one of the foremost publication outlets for high quality, leading edge research in this broad and diverse field. We therefore invite you to be one of our authors, and in doing so share your important research findings with the global forestry community.

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### Editor-in-Chief

Prof. Dr. Giacomo Alessandro Gerosa

Department of Mathematics and Physics, Catholic University of Brescia,  
I-25121 Brescia, Italy

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