

## Special Issue

# New IoT Technologies for Monitoring Forests and Their Ecosystem Services

### Message from the Guest Editors

In the era of Industry 4.0, artificial intelligence and wireless technologies are increasingly being implemented in many different sectors of society, mainly to optimize production processes and automation.

However, a few applications are still addressing environmental challenges, in particular forest monitoring and ecosystem services. The scale of forest services is continuously growing, from new materials production to carbon sequestration, air quality, health, biodiversity, land protection, and hydrologic cycle regulation. Urban trees and their services are also becoming a prominent need of the new urban life. The proposed Special Issue will accept papers that contribute to develop new sensors and technologies for monitoring forest ecosystems components and services, including trees, wildlife, soil, and atmosphere. Papers that integrate individual monitoring components with large-scale Earth observation technologies and/or artificial intelligence/big data analysis are also encouraged.

### Guest Editors

Prof. Dr. Riccardo Valentini

Department for Innovation in Biological, Agrifood and Forestry Systems,  
Tuscia University, Viterbo, Italy

Prof. Dr. Thomas Nauss

Environmental Informatics, Department of Geography, Philipp  
University of Marburg, 35037 Marburg, Germany

### Deadline for manuscript submissions

closed (12 December 2021)



## Forests

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 4.6



[mdpi.com/si/82829](https://mdpi.com/si/82829)

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

[mdpi.com/journal/  
forests](https://mdpi.com/journal/forests)





# Forests

---

an Open Access Journal  
by MDPI

---

**Impact Factor 2.5**  
**CiteScore 4.6**



[mdpi.com/journal/  
forests](https://mdpi.com/journal/forests)



## About the Journal

### Message from the Editor-in-Chief

*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.

---

### Editor-in-Chief

Prof. Dr. Giacomo Alessandro Gerosa

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

---

### Author Benefits

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, GEOBASE, PubAg, AGRIS, PaperChem, and other databases.

#### Journal Rank:

JCR - Q2 (Forestry) / CiteScore - Q1 (Forestry)

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.1 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).