

Special Issue

Cutting-Edge Solutions in Advanced Forestry: Integrating Sensors, AI, IoT, Robotics, and Connectivity

Message from the Guest Editors

This Special Issue aims to showcase the latest technological innovations reshaping forestry management and conservation. It will focus on the integration of advanced technologies such as sensors, artificial intelligence, the Internet of Things, robotics, and connectivity solutions, highlighting their applications in enhancing forest sustainability, efficiency, and data-driven management practices. Submissions of various formats are invited, including original research and review articles, case studies, and brief reports. These contributions should offer new insights into the development and application of these technologies, evaluate their impact on forestry practices, and discuss their potential implications for policy and future technological integration. Potential topics include, but are not limited to, the following:

- Precision forestry techniques;
- AI-driven predictive models;
- IoT networks for environmental monitoring and forest machine connectivity;
- Robotic automation in forestry operations and applications in the forestry sector;
- Advancements in connectivity that improve real-time data transmission and technological coordination in challenging forest environments.

Guest Editors

Dr. Heesung Woo

Department of Forest Engineering, Resources & Management, College of Forestry, Oregon State University, Corvallis, OR 97331-5704, USA

Dr. Jay Kim

Environmental and Occupational Health Program, College of Public Health and Human Sciences, Oregon State University, Corvallis, OR 97331, USA

Deadline for manuscript submissions

30 October 2025



Forests

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 4.6



mdpi.com/si/209964

Forests
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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).