Special Issue

Application of Laser Scanning Technology in Forestry

Message from the Guest Editors

Recent advances in laser scanning technologies provide accurate and direct 3D in situ information on plant community structures. The spatially explicit digitization of forests has revolutionized how we monitor and quantify ecosystem attributes and functions. Early applications of laser scanning in forestry aimed to derive traditional forest inventory attributes, then evolved to biophysical variables, and currently also included ecosystem processes and modelling. This Special Issue aims to collect new applications and innovative data processing methods that use laser scanning technologies for forest science and management. The scope of the Special Issue covers but is not limited to the following aspects:

- Fusion of forest point clouds from different platforms;
- Innovative data processing methodologies in satellite, airborne, UAV, mobile and terrestrial laser scanning;
- Forest inventory using laser scanning;
- Deriving forest biophysical parameters;
- 3D modeling of forest structures;
- Forest change detection;
- Susceptibility to disturbances.

Guest Editors

Dr. Wenxia Dai

Dr. Ningning Zhu

Dr. Weishu Gong

Dr. Di Wang

Prof. Dr. Zhen Dong

Deadline for manuscript submissions

closed (31 May 2024)

Forests

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 4.6

mdpi.com/si/163539

Forests
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
forests@mdpi.com

mdpi.com/journal/forests

Forests

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 4.6

mdpi.com/journal/forests

MDPI

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).