

## Special Issue

# Forest Inventory: The Monitoring of Biomass and Carbon Stocks

### Message from the Guest Editors

Forests act as carbon sinks, absorbing carbon dioxide from the atmosphere and storing it in biomass and soil. Therefore, the monitoring biomass and carbon stocks is crucial for our understanding of the capacity of forests to mitigate climate change, our ability to assess the health of forests, and their ability to sustain biodiversity, as well as being crucial in terms of helping governments and international organizations to formulate policies for forest conservation, sustainable land use, and climate change mitigation. Potential topics include, but are not limited to:

- Modeling approaches for forest carbon stock estimation;
- The integration of field and remote sensing data in monitoring biomass and carbon stocks;
- Predictions of forest carbon stocks and climate change mitigation potential;
- Methodologies and standards for accounting for forest carbon stocks and changes;
- Temporal and spatial dynamic variation characteristics and research methods of forest ecosystem carbon storage;
- Future trends of forest carbon storage under different scenarios;
- Identification of challenges and gaps in current monitoring and assessment practices.

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### Guest Editors

Prof. Dr. Tianxiang Yue

Dr. Zhe Xu

Dr. Zong Wang

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### Deadline for manuscript submissions

25 October 2025



## Forests

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### 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.

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### Editor-in-Chief

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