

**Special Issue on Application of Innovative Sensing Techniques  
for Monitoring and Assessing Forest Carbon Mitigation Effect  
to Promote Carbon Neutrality**

**Call for Papers**

Forest ecosystems play a vital role in global climate change mitigation and adaptation through carbon sequestration from the atmosphere. However, we still have large uncertainties in estimating the carbon stock and sequestration when using forest ecosystems as a tool for carbon neutrality. In recent years, smart sensing technologies for monitoring forest growth and assessing forest volume associated with forest carbon sequestration have been rapidly developing in fields related to forest carbon management. Among the potential data sources available for precisely investigating forest inventory, LiDAR and external sensor data may be the most accurate and can be acquired with a reasonable cost. The purpose of this Special Issue is to highlight the significance and contribution of innovative sensing technologies in monitoring and assessing forest structures and carbon sequestration potentials. It will focus on theoretical and experimental studies including sensor technologies that enable more efficient management and planning to promote carbon neutrality.

**Scope:**

- Forest inventory assessment
- Estimating forest carbon using sensor techniques
- Precision forestry
- Forest soil carbon
- LiDAR
- 3D point clouds
- Remote sensing
- Robotics in forestry
- Carbon sequestration
- Unmanned aerial vehicles (UAVs) in forestry

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