



## Studies in Tree Species Identification

Guest Editors:

**Dr. Silvana Nisgoski**

Wood Anatomy and Quality  
Laboratory, Department of Forest  
Engineering and Technology,  
Federal University of Parana,  
80210-170 Curitiba, Brazil

**Prof. Dr. Graciela Inés Bolzon  
De Muñiz**

Wood Anatomy and Quality  
Laboratory, Department of Forest  
Engineering and Technology,  
Federal University of Parana,  
80210-170 Curitiba, Brazil

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### Message from the Guest Editors

Correct identification, including the scientific name, of trees species is very important for the conservation of natural resources and results in the sustainable use and final applications of products with higher added value. Different techniques can be applied, destructive or non-destructive, using as base materials flowers, leaves, bark and wood, in solid or particulate form. Some examples are macroscopic and microscopic anatomical characterization, morphological characteristics, DNA analysis, spectroscopic techniques such as ultraviolet (UV), visible spectroscopy (VIS), infrared (IR), Raman, image analysis, etc., all with advantages and disadvantages; reaching different levels of identification, whether genus or species; some faster and cheaper; and others longer and higher cost. They are often complementary techniques and sometimes statistics and chemometrics can refine the results.

Potential topics include, but are not limited to the following:

- Wood anatomy;
- Image analysis related to tree parts (leaves, wood, bark);
- Spectroscopic techniques related to tree identification;
- Machine learning and chemometrics related to tree identification analysis.





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

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Forests Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
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