Studies in Tree Species Identification

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Message from the Guest Editors

Correct identification, including the scientific name, of trees species is veryimportant for the conservation of natural resources and results in the sustainable use and final applications ofproducts 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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Special Issue

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