



Title: Quantitative Structure Modeling (QSM) from Terrestrial Laser Scanning and Open-Source Tools

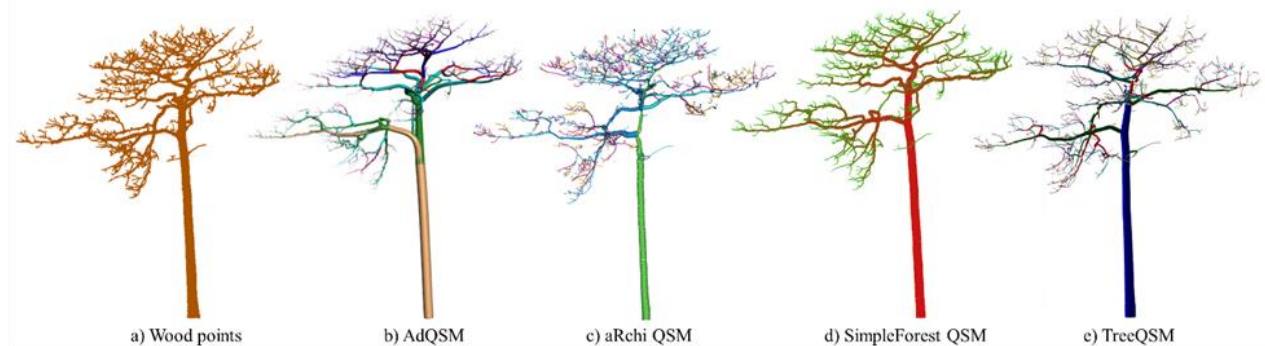
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Description: QSM is a powerful method for reconstructing 3D tree architecture and estimating structural metrics such as trunk and branch volume, diameter, and branch count. Participants will gain practical experience with four widely used and actively developed QSM tools:

- *TreeQSM* – a classical, robust modeling framework, ideal for standard workflows.
- *AdQSM* – an adaptive method with enhanced flexibility.
- *aRchi* – an R package that facilitates integration with statistical analysis pipelines.
- *SimpleForest* – a C++-based tool optimized for batch processing of large datasets.

The workshop will cover the full pipeline from QSM configuration, generation, visualization, and structural metric extraction.



Requirements: Computer with R studio installed.

Schedule: November 11, 9:00 AM – 1:00 PM (EST).

Duration: 4 hours.