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Overview of Recent Advances on Knot Segmentation in Tomographic Wood Images and Applications with Future Projects

Abstract

From the recent advances on the knot segmentation problem in volumetric images, I will give an overview of the proposed contributions in relation to the extraction of geometric features and image analysis.

Associated to the objective of wood quality estimation, a new method to identify the knot defects on the surface of wood bark will be presented. The last part of this presentation will be dedicated to new applications and future works included in a recent project dealing with the integration of geometric features in machine learning approaches.