New approach for validating the segmentation of 3D data applied to individual fibre extraction - DTU Orbit (17/03/2019)

**New approach for validating the segmentation of 3D data applied to individual fibre extraction**

We present two approaches for validating the segmentation of 3D data. The first approach consists on comparing the amount of estimated material to a value provided by the manufacturer. The second approach consists on comparing the segmented results to those obtained from imaging modalities that provide a better resolution and therefore a more accurate segmentation. The imaging modalities used for comparison are scanning electron microscopy, optical microscopy and synchrotron CT. The validation methods are applied to the assess the segmentation of individual fibres from X-ray microtomograms.

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