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Towards an automatized data analysis of large 3d volumetric data (12 min talk + 3 min discussion)

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Recent developments in bio-imaging technologies have allowed researchers to collect larger and larger tomographic datasets which contain an immense amount of details. To achieve a quantitative understanding, however, these datasets need to be cleaned-up and segmented. These two tasks are tedious, very time consuming, and still performed mostly manually. In our work we aim to develop a full workflow from 3D image pre-processing to DL-based 3D segmentation and analysis of large volumetric datasets. Here we present the pre-processing pipeline, including handling of metadata, the plan for the implementation of the segmentation tools and an example of large volumetric data analysis.

Poster title

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