

Meeting minutes 1

Wednesday 02/16/2011

Attending: Ben, Murat, Ceylan

Ben has showed us the MATLAB demo script he prepared (demo.m). This script performs the registration part of the pipeline. It pre-processes the training images, and uses the template surface mesh to register the training images. FANTASM and Mjolnir need to be run on the Linux server separately.

The pelvis data that Dr. Chintalapani used for the pelvis atlas is located at /home/stomach/atlas/Pelvis/Sugano_HipData/Mjolnir on the Linux server.

FANTASM takes about 0.5 hours and Mjolnir takes about 2 hours for pelvis data.

We would like to extract the 3D contours using an open source program. Ben has found code that he will be emailing us.

view3D function in MATLAB will be useful for our purposes.

To do list:

- Run the demo with pelvis data – IMPORTANT: Back-up previous Mjolnir results in order not to overwrite them
- Split the Hong Kong dataset images so that there will be separate DICOM files for left tibia, right tibia, left femur, and right femur
- Perform segmentation on these images with ITK-SNAP
- Obtain volumetric and surface meshes
- Perform fuzzy segmentation with FANTASM

Our “regular” meeting time will be Thursdays 3-5 pm @ Hackerman 319.

Next week is an exception: Meeting at 7:50 pm on Wednesday, 02/23/2011. We will be discussing the paper: F Ding, WK Leow, S Wang. “Segmentation of 3D CT Volume Images Using a Single 2D Atlas”.