Objective 1 [15%]

7/10

Load RadCTTACEomics_DDDD CT and segmentation

Both images are loaded with PyDicom, and their corresponding headers have been studied.

The slices of the CT image contain only a single acquisition.

The segmentation image is resliced according to the dicom headers.

The four regions of interest appear on a segmentation (i.e. label image).

Rotating MIP

At least one Maximum Intensity Projection has been created.

The image and the regions are both clearly identifiable: colormaps have been correctly used, alpha fusion is used.

An interactive animation with at least 16 projections has been showed.

Objective 2 [15%]

6/10

Segmentation

The centroid and bounding box have been calculated.

A segmentation algorithm has been implemented, and it uses either the centroid or the bounding box.

The segmentation algorithm works in volumetric 3D images, rather than on single slices.

☐ The segmentation algorithm extracts the tumoral region up to its borders.

Assessment

Both the CT image and automatically segmented mask have been visualized together.

Both the provided and automatically segmented masks have been visualized together, and can be easily compared.

Numerical values have been implemented to measure the correctness of the automatic segmentation.

Objective 3 [15%]	- /10
Image coregistration	
 □ A rigid motion has been implemented. □ The initial parameters are adequate. □ A loss function has been implemented. □ An optimizer has been successfully used to find the optimal parametrion. □ The correctness of the coregistration has been verified with visual 	_
Mask and assessment	
 □ The mask has been transformed into the input space. □ The inverse transformation has been explicitly found. □ Both the input CT image and the transformed liver mask have be together. □ Numerical values have been implemented to measure the correct coregistration process. 	
Submission [20%]	6 /10
Document	
 ✓ Written expression is correct and accurate. ✓ Covers all the objectives. ✓ Shows figures of images/ROIs when necessary. ☐ Includes discussions on why certain approaches were preferred on the images and shortcomings of the findings and shortcomings of the findings and shortcomings of the images. 	
Code	