# 2IMV20 Visualization: Report Assignment 1

Lois Nijland (0860184), Joost Pieterse (0848231)

**Ray casting**

**MIP and compositing ray functions**

*Implementation*

*Pros and cons*

*Results*

**Tri-linear interpolation**

*Implementation*

*Results*

**Responsiveness**

**2-D Transfer functions**

**Gradient-based opacity weighting**

*Implementation*

*Results*

**Extended triangle widget**

*Implementation*

*Results*

**Illumination model**

*Implementation*

*Results*

**Comparison of techniques**

Compare the results obtained from various data sets of the different approaches

The comparisons should clearly demonstrate the strengths and weaknesses of each of the techniques.

For “results”: the techniques should be applied to several data sets, interesting details in the data should be reported by showing a good set of transfer functions. The exploration process should involve extensive experimentation with the parameters of the various approaches.