Automated Detection of Calcified Plaques - A Human vs. Machine Inter-Observer Study

The Problem:

Cardiovascular disease is still the most common cause of death in the industrialized world. At present tools for the detection, diagnosis and risk estimation are too time and cost consuming, leaving room for new and improved methods.

Our Solution:

- Automated detection of lumbar aortic calcifications (well established predictors of cardiac diseases)
- Risk assessment on the basis of the automated detection and segmentation

The Images:





An x-ray in its pure and its annotated form. Trained, blinded radiologists annotated the digitized images on a Sectra radiological reading unit with annotation software implemented in MatLab.

