

Big data analysis of whole-body MR-images

Magnetic Resonance (MR) imaging is an image acquisition technique that does not use ionizing radiation and is very useful in clinical use and in medical research, e.g., for analyzing the composition of the human body.

We are developing a method for large scale analysis of huge amounts of whole body-MR data, *Imiomics*. The research focuses on the connection between the composition of the human body and disease.

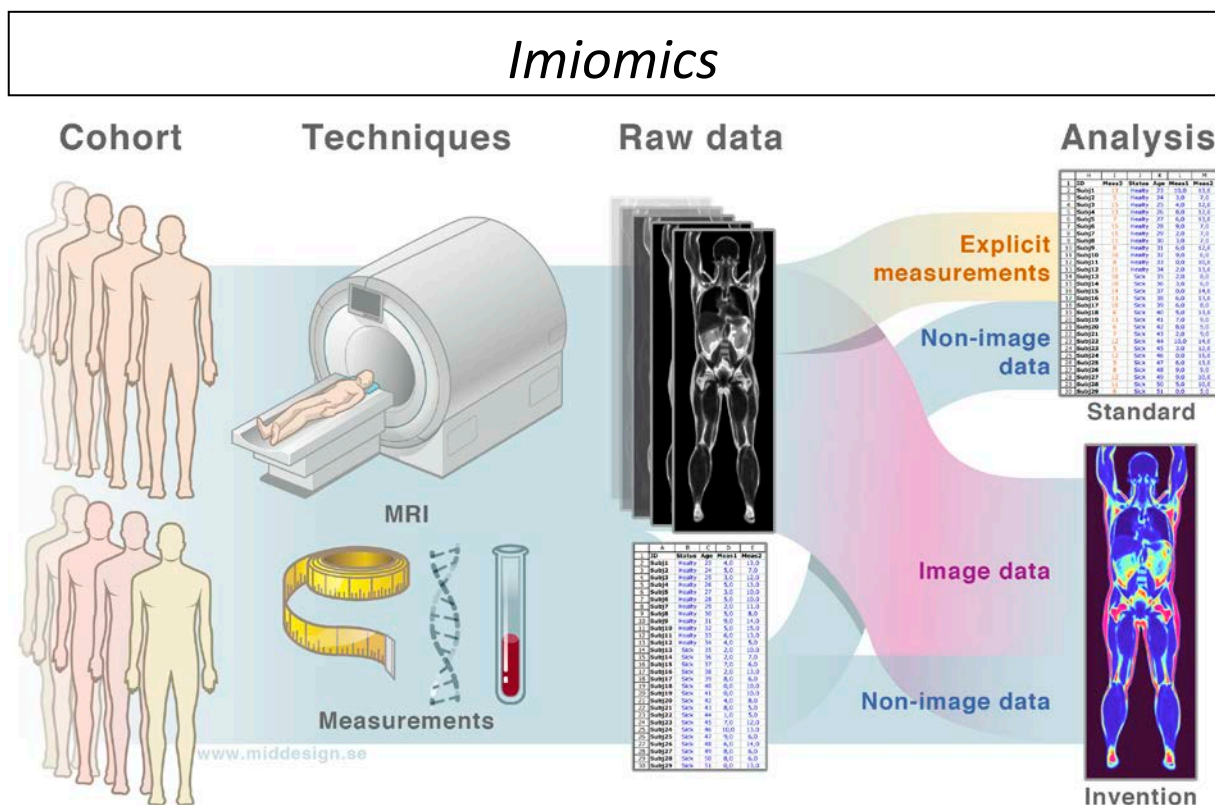
Reliable co-registration of the volume images is crucial for successful analysis, and this project will focus on further development of the image registration method.

Conditions:

The master thesis project will be carried out at Uppsala University Hospital.

Knowledge on MR, programming, image analysis and anatomy is a plus.

The extent of the Master Thesis project is 20 weeks.



“Imiomics uses all imaging information collected and allows integration of the non-imaging data in the analysis. In addition to more efficient data usage this allows both untargeted and targeted statistical analysis in the whole-body region.”

Contact:

Robin Strand, Ph.D.
 Centre for Image Analysis and Division of Radiology, Uppsala University,
 robin.strand@it.uu.se, 018-4713469