Student projects on Medical Imaging

The Quantitative Imaging Group (Department Imaging Science and Technology) closely collaborates with the Departments of Radiology and Medical Physics (AMC Amsterdam) in a number of research projects on medical imaging. We are looking for students that are eager to contribute to this collaboration as part of their bachelor’s or master’s research projects. In the sections below you will find a global description of the current projects.

For more information, please contact dr. F.M. Vos (C201) or prof.dr.ir. L.J. van Vliet (F234) (f.m.vos@tudelft.nl, l.j.vanvliet@qi.tnw.tudelft.nl).

Dynamic Contrast Enhanced (DCE) MRI: automatic classification

Dynamic Contrast Enhanced MRI visualizes the dynamic response of tissue to the inflow of blood. Typically, a marked increase in signal intensity is observed in inflammatory tissue due to enhanced perfusion and vascular permeability. This project aims to automatically identify inflammatory tissue in patients suffering from Crohn’s disease in order to quantify disease activity.