Master Thesis Project: Automatic grading of knee and hip joint osteoarthritis (artros)

**Background.** Conventional X-ray imaging to answer whether the patient has osteoarthritis in the knee or hip joint is one of the most common referrals from primary care to radiology departments at hospitals. For each session, 3 images (knee joint) or 2 images (hip joint) are produced.

This MSc project aims at developing and evaluating a method for automatic grading of osteoarthritis into one of four categories (No/Mild/Moderate/Severe osteoarthritis).

**Image material:** 500-1000 retrospective examinations of each type, each graded by at least two radiologists of which at least one senior radiologist, will be made available during the project for training and validation.

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