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XNAT pipelines repository

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# xnat-pipelines

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## Intro

XNAT Pipeline-engine is a Java-based workflow framework nicely integrated (that's basically its inception purpose) in XNAT. Pipeline-engine uses XML-based workflow definitions for processing data hosted in XNAT by linking sequential activities or steps.

## Main features

- Provides mechanisms for [batch-mode triggering](#) pipeline instances (via REST API).
- Enables submission of jobs to a Distributed Resource Management (DRM) system supporting the Distributed Resource Management Application API (DRMAA) specification, e.g. [SGE](#).

## Content list

XNAT pipelines repository, see the [wishlist](#) for incoming apps.

- [ExamCard extractor](#) :: Extracts Philips ExamCard objects embedded in DICOM object files
- [FreeSurfer](#) :: FreeSurfer recon-all pipeline with XNAT assessor output with stats metrics
- [mricron](#) :: DICOM and PARREC flavoured pipelines for imaging data conversion to NIFTI format (using dcm2nii)
- [Quality Assessment Protocol](#) :: QA analysis on functional/structural MRI data
- [mricrogl](#) :: New generation of DICOM-to-NIFTI format conversion pipeline (using dcm2niix)
- [DTI-preprocessing](#) :: Compute preprocessing corrections on MRI DTI scans
- [MRI bias field correction](#) :: correcting intensity non-uniformity (i.e. bias fields)
- [MRI anatomical defacer](#) :: Automated facial traits removal (defacing) of anatomical scan data.
- [qMRI](#) :: Calculate quantitative anatomical MRI (qMRI) mapping. qMRI provides MRI measures that are comparable across sites and time points. More background [here](#).

## Contributors

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### Releases

No releases published

### Packages

No packages published

### Deployments 4

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