WIAS Packages for Imaging

Product

The WIAS packages for imaging are a collection of open-source software tools for different aspects of image processing. Focus is on image enhancement and modeling of complex experiments.

Key Features

- Package **aws**: implementation of structural adaptive smoothing algorithms in 1D, 2D, or 3D.
- Package **adimpro**: tools for processing of 2D color images.
- Package **fmri**: analysis of functional MRI experiments.
- Package **dti**: tools for modeling and analysis of diffusion-weighted MRI data.
- Package **qmri**: methods for quantitative MRI

A common feature in all packages is efficient structure preserving noise reduction.

Key Benefits

The WIAS packages for imaging offer features and non-standard models that are not available in standard image processing or neuroscience software. They can be easily incorporated into existing analysis pipelines.

Fields of Application

- Analysis of neuroscience experiments
- Functional MRI
- Diffusion-weighted MRI
- MR relaxometry and other quantitative measurements
- Image processing

Service

- Individual user consultation
- Custom-made adjustment and optimization
- Solution of open problems in the framework of R&D contracts
- Applications beyond imaging problems
- Statistical modeling

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