Resource Summary Report

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Diffusional Kurtosis Estimator

RRID:SCR_009563
Type: Tool

Proper Citation

Diffusional Kurtosis Estimator (RRID:SCR_009563)

Resource Information

URL: http://musc.edu/cbi/dki

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Description: A software tool for post-processing diffusional kurtosis imaging (DKI) datasets. DKE consists of a suite of command-line programs along with a graphical user interface (GUI). DKE is currently supported on 32- and 64-bit Windows platforms. Given a set of diffusion-weighted images acquired following a valid DKI protocol, DKE generates a set of kurtosis (axial, mean, radial) parametric maps. DKE also generates diffusivity (axial, mean, radial) and fractional anisotropy maps using both DKI and diffusion tensor imaging signal models. DKE features include: DICOM and NIfTI format support, interactive (GUI) as well as batch mode (command-line) processing, and rigid-body motion correction. DKE implements the methods described in the following paper: Tabesh A, Jensen JH, Ardekani BA, and Helpern JA. Estimation of tensors and tensor-derived measures in diffusional kurtosis imaging. Mag Reson Med. 2011 Mar;65(3):823-36. http://www.ncbi.nlm.nih.gov/pubmed/21337412

Abbreviations: DKE

Resource Type: software resource, software application, data processing software, image processing software

Defining Citation: PMID:21337412

Keywords: application, c++, dicom, matlab, microsoft, modeling, magnetic resonance, nifti, quantification, super tensor, win32 (ms windows), windows, windows vista, windows xp

Funding:

Availability: DKE License

Resource Name: Diffusional Kurtosis Estimator

Resource ID: SCR_009563

Alternate IDs: nlx_155744

Alternate URLs: http://www.nitrc.org/projects/dke

Record Creation Time: 20220129T080253+0000

Record Last Update: 20250519T204325+0000

Ratings and Alerts

No rating or validation information has been found for Diffusional Kurtosis Estimator.

No alerts have been found for Diffusional Kurtosis Estimator.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We have not found any literature mentions for this resource.