**Diffusional Kurtosis Estimator**

RRID:SCR_009563  
Type: Tool

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**Proper Citation**

Diffusional Kurtosis Estimator (RRID:SCR_009563)

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**Resource Information**

**URL:** [http://musc.edu/cbi/dki](http://musc.edu/cbi/dki)

**Proper Citation:** Diffusional Kurtosis Estimator (RRID:SCR_009563)

**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:** data processing software, software application, image processing software, software resource

**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

**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:** 20240821T053750+0000

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**Ratings and Alerts**

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

No alerts have been found for Diffusional Kurtosis Estimator.

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**Data and Source Information**

**Source:** [SciCrunch Registry](http://www.nitrc.org/projects/dke)

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**Usage and Citation Metrics**

We have not found any literature mentions for this resource.