## **Resource Summary Report**

Generated by <u>NIF</u> on May 23, 2025

# **HI-SPEED Software Packets**

RRID:SCR\_009585 Type: Tool

#### **Proper Citation**

HI-SPEED Software Packets (RRID:SCR\_009585)

### **Resource Information**

URL: https://sites.google.com/site/hispeedpackets/

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**Description:** HI-SPEED Software Packets contain # unconstrained and constrained nonlinear least squares diffusion tensor estimation techniques, # 2-dimensional and 3-dimensional analytical (Shepp-Logan) magnetic resonance imaging phantoms in both the Fourier and image domains, # techniques for reporting the underlying signal-to-noise ratio in magnetic resonance (MR) images, # Probabilistic Identification and EStimation of NOise (PIESNO)---a technique for identifying noise-only pixels and estimating the underlying noise standard deviation in MR images, and # a signal-transformational technique for breaking the noise floor in MR images. Many more computational tools will be shared with users and developers as they become available.

Abbreviations: HI-SPEED Software Packets

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

**Keywords:** reusable library, image reconstruction, java, modeling, magnetic resonance, os independent, statistical operation, tensor metric, mri, diffusion tensor mri

#### Funding:

Availability: HI-SPEED Software Packets License

Resource Name: HI-SPEED Software Packets

Resource ID: SCR\_009585

Alternate IDs: nlx\_155771

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

**Record Creation Time:** 20220129T080253+0000

Record Last Update: 20250522T060609+0000

#### **Ratings and Alerts**

No rating or validation information has been found for HI-SPEED Software Packets.

No alerts have been found for HI-SPEED Software Packets.

Data and Source Information

Source: SciCrunch Registry

### **Usage and Citation Metrics**

We found 1 mentions in open access literature.

Listed below are recent publications. The full list is available at <u>NIF</u>.

Amarreh I, et al. (2014) Individual classification of children with epilepsy using support vector machine with multiple indices of diffusion tensor imaging. NeuroImage. Clinical, 4, 757.