

Resource Summary Report

Generated by SPARC SAWG on Sep 14, 2026

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/>

Proper Citation: HI-SPEED Software Packets (RRID:SCR_009585)

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: data processing software, software application, software resource

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

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: 20260912T200059+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 [SPARC SAWG](#) .

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