

Resource Summary Report

Generated by PRECISE-TBI on Jul 31, 2026

Intrinsic Unscented Kalman Filter (IUKF) Tractography Software v1.0

RRID:SCR_014127

Type: Tool

Proper Citation

Intrinsic Unscented Kalman Filter (IUKF) Tractography Software v1.0
(RRID:SCR_014127)

Resource Information

URL: http://www.nitrc.org/projects/iukf_2013/

Proper Citation: Intrinsic Unscented Kalman Filter (IUKF) Tractography Software v1.0
(RRID:SCR_014127)

Description: A tractography algorithm for HARDI which provides a relatively accurate and efficient fiber tracking mechanism by reconstructing a bi-tensor model for underlying signals and exploiting intrinsic operations on the space of diffusion tensors. Given HARDI data sets, IUKF is capable of tracking in the presence of complex local geometries, such as crossing and kissing fibers. Reconstruction is only performed at the voxels along estimated fibers.

Synonyms: IUKF Tractography Software v1.0, IUKF Tractography Software, Intrinsic Unscented Kalman Filter Tractography Software, Intrinsic Unscented Kalman Filter Tractography Software v1.0

Resource Type: data processing software, 3d visualization software, data visualization software, software resource, software application

Keywords: filter, data visualization software, 3d visualization, tractography, algorithm, fiber tracking, HARDI

Funding: NINDS NS066340

Availability: Available for download

Resource Name: Intrinsic Unscented Kalman Filter (IUKF) Tractography Software v1.0

Resource ID: SCR_014127

Alternate URLs: <http://www.cise.ufl.edu/~salehian/Softwares.html>

License: Non-Commercial Software License Agreement

Record Creation Time: 20220129T080319+0000

Record Last Update: 20260731T042904+0000

Ratings and Alerts

No rating or validation information has been found for Intrinsic Unscented Kalman Filter (IUKF) Tractography Software v1.0.

No alerts have been found for Intrinsic Unscented Kalman Filter (IUKF) Tractography Software v1.0.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.