

# Resource Summary Report

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

RRID:SCR\_014127

Type: Tool

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### Proper Citation

Intrinsic Unscented Kalman Filter (IUKF) Tractography Software v1.0  
(RRID:SCR\_014127)

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### Resource Information

**URL:** [http://www.nitrc.org/projects/iukf\\_2013/](http://www.nitrc.org/projects/iukf_2013/)

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**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:** 3d visualization software, software resource, software application, data visualization software, data processing software

**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:** 20260808T190006+0000

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## 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.

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## Data and Source Information

**Source:** [SciCrunch Registry](#)

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## Usage and Citation Metrics

We have not found any literature mentions for this resource.