

Resource Summary Report

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BrainMask Volume Processing Tool

RRID:SCR_009538

Type: Tool

Proper Citation

BrainMask Volume Processing Tool (RRID:SCR_009538)

Resource Information

URL: <http://www.nitrc.org/projects/brainmask/>

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Description: Segmentation of the brain from three-dimensional MR images is a crucial pre-processing step in morphological and volumetric brain studies. BrainMask implements a fully automatic brain segmentation algorithm that uses advanced thresholding with morphology and 3D edge detection algorithms. BrainMask demonstrates high segmentation accuracy. For a representative 26 datasets, the segmentation error averaged 3.4% ?????? 1.3% (Mikheev A et al. J Magn Reson Imag 27(6):1235-41;2008). BrainMask includes NNN - a tool based on the algorithm developed by John Sled for correcting the intensity non-uniformity in MR data (Sled JG et al. IEEE Trans Med Imag 17(1):87-97;1998). BrainMask also includes a versatile DICOM viewer and allows to selectively load and organize DICOM images into 3D and 4D datasets.

Abbreviations: BrainMask

Resource Type: data processing software, data visualization software, image analysis software, segmentation software, software application, software resource

Keywords: analyze, application, bshort/bfloat, c++, constrained region growing, dicom, image display, microsoft, magnetic resonance, region of interest, segmentation, visualization, volume measurement, volumetric analysis, win32 (ms windows), windows, windows xp

Availability: NYUMC FireVoxel-BrainMask Software License Agreement

Resource Name: BrainMask Volume Processing Tool

Resource ID: SCR_009538

Alternate IDs: nlx_155715

Record Creation Time: 20220129T080253+0000

Record Last Update: 20260821T193903+0000

Ratings and Alerts

No rating or validation information has been found for BrainMask Volume Processing Tool.

No alerts have been found for BrainMask Volume Processing Tool.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.