Resource Summary Report

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Automatic Segmentation Tool Adapter

RRID:SCR_002481
Type: Tool

Proper Citation

Automatic Segmentation Tool Adapter (RRID:SCR_002481)

Resource Information

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

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Description: An open source learning-based software that automatically learns how to transfer the output of a host segmentation tool closer to the user's manual segmentation using the image data and manual segmentation provided by the user. The motivation of this project is to bridge the gap between the segmentation tool developer and the tool users such that the existing segmentation tools can more effectively serve the community. More and more automatic segmentation tools are publicly available to today's researchers. However, when applied by their end-users, these segmentation tools usually can not achieve the performance that the tool developer reported. Discrepancies between the tool developer and its users in manual segmentation protocols and imaging modalities are the main reasons for such inconsistency.

Abbreviations: Automatic Segmentation Tool Adapter

Resource Type: software resource, software application

Keywords: algorithm, analyze, c, console (text based), magnetic resonance, nifti, posix/unix-like, segmentation

Funding:

Availability: GNU General Public License

Resource Name: Automatic Segmentation Tool Adapter

Resource ID: SCR_002481

Alternate IDs: nlx_155871

Record Creation Time: 20220129T080213+0000

Record Last Update: 20250404T060138+0000

Ratings and Alerts

No rating or validation information has been found for Automatic Segmentation Tool Adapter.

No alerts have been found for Automatic Segmentation Tool Adapter.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 5 mentions in open access literature.

Listed below are recent publications. The full list is available at FDI Lab - SciCrunch.org.

Zandifar A, et al. (2017) A comparison of accurate automatic hippocampal segmentation methods. NeuroImage, 155, 383.

Wang JY, et al. (2017) Abnormal trajectories in cerebellum and brainstem volumes in carriers of the fragile X premutation. Neurobiology of aging, 55, 11.

Wang JY, et al. (2016) Robust Machine Learning-Based Correction on Automatic Segmentation of the Cerebellum and Brainstem. PloS one, 11(5), e0156123.

Lee JK, et al. (2015) Assessing hippocampal development and language in early childhood: Evidence from a new application of the Automatic Segmentation Adapter Tool. Human brain mapping, 36(11), 4483.

Hunsaker MR, et al. (2014) A semi-automated pipeline for the segmentation of rhesus macaque hippocampus: validation across a wide age range. PloS one, 9(2), e89456.