ROBEX
RRID:SCR_002534
Type: Tool

Proper Citation

ROBEX (RRID:SCR_002534)

Resource Information

URL: http://www.jeiglesias.com

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Description: An automatic whole-brain extraction tool for T1-weighted MRI data (commonly known as skull stripping). Whole-brain segmentation is often the first component in neuroimage pipelines and therefore, its robustness is critical for the overall performance of the system. Many methods have been proposed in the literature, but they often: * work well on certain datasets but fail on others. * require case-specific parameter tuning ROBEX aims for robust skull-stripping across datasets with no parameter settings. It fits a triangular mesh, constrained by a shape model, to the probabilistic output of a supervised brain boundary classifier. Because the shape model cannot perfectly accommodate unseen cases, a small free deformation is subsequently allowed. The deformation is optimized using graph cuts.

Abbreviations: ROBEX

Synonyms: Robust Brain Extraction (ROBEX), Robust Brain Extraction

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

Defining Citation: PMID:21880566

Keywords: magnetic resonance, mri, skull stripping, classification, segmentation, brain, skull

Availability: GNU Lesser General Public License, GNU General Public License, BSD License

Resource Name: ROBEX
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Alternate URLs: http://www.nitrc.org/projects/robex

Ratings and Alerts

- 4.5 / 5 (2 votes) Rated at NITRC http://www.nitrc.org/projects/robex

No alerts have been found for ROBEX.

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 FDI Lab - SciCrunch.org.