BrainVISA / Anatomist

RRID:SCR_007354
Type: Tool

Proper Citation

BrainVISA / Anatomist (RRID:SCR_007354)

Resource Information

URL: http://www.brainvisa.info/

Description: BrainVISA is a modular an customizable software platform built to host heterogeneous tools dedicated to neuroimaging research. Many toolboxes have already been developed for BrainVISA (T1 MRI, sulcal identification and morphometry, cortical surface analysis, diffusion imaging and tractography, fMRI, nuclear imaging, EEG and MEG, TMS, histology and autoradiography, etc.). Anatomist is a software for interactive visualization of multimodal data and for manipulation of structured 3D objects. It allows to build scenes that merge or combine images, meshes, regions of interest, fibers, textures, color palettes, referential changes, etc. A user can interact in 3D and in real time with the objects of an Anatomist scene: change point of view, select objects, add/suppress objects, change colors, draw regions of interests, do manual registration, etc. BrainVISA main features are: * Harmonization of communications between different software. For instance, BrainVISA toolboxes are using home-made software but also third-party software such as FreeSurfer, FSL, SPM, nipy, R-project, Matlab, etc. * Ontology-based data organization allowing database sharing and automation of mass of data analysis. * Fusion and interactive visualization of multimodal data (using Anatomist software). * Automatic generation of graphical user interfaces. * Workflow monitoring and data quality checking. * Full customization possible. * Runs on Linux, Mac and Windows. * Programming Language: C++, Python * Supported Data Format: ANALYZE, DICOM, GifTI, MINC, NIfTI-1, Other Format

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Resource Type: Resource, image analysis software, data processing software, software application, software development tool, software development environment, software resource, image processing software
**Keywords:** neuroimaging, database, tensor metric, morphology, quantitative shape analysis, segmentation, spatial transformation, surface analysis, diffusion mr fiber tracking, visualization, platform environment, development environment

**Resource ID:** SCR_007354

**Funding Agency:** ACI telemedecine, French Ministry of Higher Education and Research

**Related resources:** SPM, BrainVisa Morphology extensions

**Availability:** CeCILL license v2

**Website Status:** Last checked up

**Alternate IDs:** nif-0000-00264

**Alternate URLs:** http://www.nitrc.org/projects/brainvisa, http://anatomist.info

**Mentions Count:** 183

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**Ratings and Alerts**


No alerts have been found for BrainVISA / Anatomist.

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**Data and Source Information**

Source: [SciCrunch Registry](http://www.scribner.org)

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**Usage and Citation Metrics**

We found 183 mentions in open access literature.

**Listed below are recent publications.** The full list is available at [scicrunch](http://www.scripnc.org).


Levy J, et al. (2019) Tridimensional mapping of Phox2b expressing neurons in the brainstem
of adult Macaca fascicularis and identification of the retrotrapezoid nucleus. The Journal of comparative neurology, 527(17), 2875-2884.


Tissier C, et al. () Sulcal Polymorphisms of the IFC and ACC Contribute to Inhibitory Control Variability in Children and Adults. eNeuro, 5(1).


