BrainVISA / Anatomist
RRID:SCR_007354
Type: Tool

Proper Citation

BrainVISA / Anatomist (RRID:SCR_007354)

Resource Information

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

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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

Synonyms: BrainVISA, BrainVISA/Anatomist

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

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

Availability: CeCILL license v2

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Alternate IDs: nif-0000-00264


Ratings and Alerts

- 3 / 5 (1 votes) Rated at NITRC http://www.nitrc.org/projects/brainvisa

No alerts have been found for BrainVISA / Anatomist.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 222 mentions in open access literature.

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

Xicota L, et al. (2023) Modifications of the endosomal compartment in fibroblasts from sporadic Alzheimer’s disease patients are associated with cognitive impairment. Translational psychiatry, 13(1), 54.


Roell M, et al. (2021) Sulcation of the intraparietal sulcus is related to symbolic but not non-symbolic number skills. Developmental cognitive neuroscience, 51, 100998.


Burman DD, et al. (2021) Topography of hippocampal connectivity with sensorimotor cortex
revealed by optimizing smoothing kernel and voxel size. PloS one, 16(12), e0260245.