Resource Summary Report

Brede Toolbox

RRID:SCR_006204
Type: Tool

Proper Citation

Brede Toolbox (RRID:SCR_006204)

Resource Information

URL: http://neuro.imm.dtu.dk/software/brede/

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Description: A package for neuroinformatics and neuroimaging analysis mostly programmed in Matlab with a few additional programs in Python and Perl. It allows coordinate-based meta-analysis and visualization, neuroimaging analysis of voxel or regional data - not the original data but rather the summary images (e.g., statistical parametric images) and location data in stereotactic space. Among the algorithms implemented are kernel density estimation (for coordinate-based meta-analysis), independent component analysis, non-negative matrix factorization, k-means clustering, singular value decomposition, partial correlation analysis with permutation testing and partial canonical correlation analysis. Visualization of coordinate, surfaces and volumes are possible in 2D and 3D. Generation of HTML for results are possible and algorithms can be accessed from the command line or via a flexible graphical interface. With the Brede Toolbox comes the Brede Database with a small coordinate database from published neuroimaging studies, and ontologies for, e.g., brain function and brain regions.

Abbreviations: Brede Toolbox

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

Keywords: ontology, database application, independent component analysis, principal component analysis, regression, neuroinformatics, neuroimaging, analysis, matlab, python, perl, coordinate, kernel density estimation, brain function, brain region, visualization, voxel, region

Funding:

Availability: Free for academic use, Acknowledgement requested

Resource Name: Brede Toolbox

Resource ID: SCR_006204

Alternate IDs: nif-0000-00275

Record Creation Time: 20220129T080234+0000

Record Last Update: 20250411T055054+0000

Ratings and Alerts

No rating or validation information has been found for Brede Toolbox.

No alerts have been found for Brede Toolbox.

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 RRID.

Frokjaer VG, et al. (2010) Endogenous plasma estradiol in healthy men is positively correlated with cerebral cortical serotonin 2A receptor binding. Psychoneuroendocrinology, 35(9), 1311.