Nipype

RRID:SCR_002502
Type: Tool

Proper Citation

Nipype (RRID:SCR_002502)

Resource Information

URL: http://nipy.org/nipype/

Description: A package for writing fMRI analysis pipelines and interfacing with external analysis packages (SPM, FSL, AFNI). Current neuroimaging software offer users an incredible opportunity to analyze their data in different ways, with different underlying assumptions. However, this has resulted in a heterogeneous collection of specialized applications without transparent interoperability or a uniform operating interface. Nipype, an open-source, community-developed initiative under the umbrella of Nipy, is a Python project that solves these issues by providing a uniform interface to existing neuroimaging software and by facilitating interaction between these packages within a single workflow. Nipype provides an environment that encourages interactive exploration of algorithms from different packages (e.g., SPM, FSL), eases the design of workflows within and between packages, and reduces the learning curve necessary to use different packages. Nipype is creating a collaborative platform for neuroimaging software development in a high-level language and addressing limitations of existing pipeline systems.

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Resource Type: Resource, software resource, software application

Keywords: magnetic resonance, python, workflow, analysis, pipeline, interface, data processing, neuroimaging

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Parent Organization: Neuroimaging in Python
Ratings and Alerts

No rating or validation information has been found for Nipype.

No alerts have been found for Nipype.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 70 mentions in open access literature.

Listed below are recent publications. The full list is available at scicrunch.


