Resource Summary Report

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Functional Image Processing software Computational Olio

RRID:SCR_001689
Type: Tool

Proper Citation

Functional Image Processing software Computational Olio (RRID:SCR_001689)

Resource Information

URL: http://www.stat.cmu.edu/~fiasco/

Proper Citation: Functional Image Processing software Computational Olio (RRID:SCR_001689)

Description: Collection of software designed to analyze fMRI data using a series of processing steps. The input is the raw data, and the outputs are statistical brain maps showing regions of neural activation. Corrections for different systematic variations in the k-space (raw) data obtained from an fMRI session (head motion, ghosting, etc) are performed first. The image is then reconstructed (using the Fast Fourier Transform) and statistical analyses run. The user has a great deal of flexibility in choosing which corrections and statistics are executed. FIASCO emphasizes correct statistical models, for example for group comparisons.

Abbreviations: FIASCO

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

Defining Citation: PMID:22348882

Keywords: fmri, brain, neural activation, neuroimaging, function

Funding:

Resource Name: Functional Image Processing software Computational Olio

Resource ID: SCR_001689

Alternate IDs: nif-0000-00298

Record Creation Time: 20220129T080209+0000

Record Last Update: 20250426T055454+0000

Ratings and Alerts

No rating or validation information has been found for Functional Image Processing software Computational Olio.

No alerts have been found for Functional Image Processing software Computational Olio.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 5 mentions in open access literature.

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

Koshino H, et al. (2005) Functional connectivity in an fMRI working memory task in high-functioning autism. NeuroImage, 24(3), 810.

Just MA, et al. (2004) Imagery in sentence comprehension: an fMRI study. NeuroImage, 21(1), 112.

Vaillancourt DE, et al. (2004) Subthalamic nucleus and internal globus pallidus scale with the rate of change of force production in humans. NeuroImage, 23(1), 175.

Merriam EP, et al. (2003) Spatial updating in human parietal cortex. Neuron, 39(2), 361.

Newman SD, et al. (2003) Frontal and parietal participation in problem solving in the Tower of London: fMRI and computational modeling of planning and high-level perception. Neuropsychologia, 41(12), 1668.