

Resource Summary Report

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Automatic Analysis

RRID:SCR_003560

Type: Tool

Proper Citation

Automatic Analysis (RRID:SCR_003560)

Resource Information

URL: <https://github.com/automaticanalysis/automaticanalysis>

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Description: Integration framework for major open source packages in neuroimaging including SPM, FSL, FreeSurfer, EEGLAB, and Fieldtrip. Efficient neuroimaging workflows and parallel processing using Matlab and XML. Addresses challenges of processing multimodal datasets, like combining anatomy, functional MRI, diffusion, and EEG, to yield integrated views of brain. Allows to design, execute, and share pipelines utilizing multiple open source packages. Supports parallelized execution to address challenges of large cohort studies and provides quality control offering group statistics and reporting facilities to help identify outlier subjects and erroneous processing steps.

Abbreviations: aa

Synonyms: automaticanalysis, AutomaticAnalysis

Resource Type: software toolkit, workflow software, software resource, image processing software, data processing software, time-series analysis software, software application, data analysis software, image analysis software

Defining Citation: [PMID:25642185](#)

Keywords: Neuroimaging workflows, processing multimodal datasets, brain integrated views, fmri, eeg, meg, dwi, morphometry, parallel-processing, scripting, record-keeping,

Funding: NSERC Discovery and the Canada Excellence Research Chair (CERC) in Cognitive Neuroimaging ;
NSERC/CIHR CHRP ;
NIA R01 AG038490;
NIDCD R01 DC013063

Resource Name: Automatic Analysis

Resource ID: SCR_003560

Alternate IDs: nlx_157695

License: MIT License

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Ratings and Alerts

No rating or validation information has been found for Automatic Analysis.

No alerts have been found for Automatic Analysis.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 8 mentions in open access literature.

Listed below are recent publications. The full list is available at [PRECISE-TBI](#) .

Rogers CS, et al. (2023) Real-time feedback reduces participant motion during task-based fMRI. bioRxiv : the preprint server for biology.

Jones MS, et al. (2022) A Multi-Dataset Evaluation of Frame Censoring for Motion Correction in Task-Based fMRI. Aperture neuro, 2, 1.

Peelle JE, et al. (2022) Increased Connectivity among Sensory and Motor Regions during Visual and Audiovisual Speech Perception. The Journal of neuroscience : the official journal of the Society for Neuroscience, 42(3), 435.

Tsvetanov KA, et al. (2021) The effects of age on resting-state BOLD signal variability is explained by cardiovascular and cerebrovascular factors. Psychophysiology, 58(7), e13714.

Rogers CS, et al. (2020) Age-Related Differences in Auditory Cortex Activity During Spoken Word Recognition. Neurobiology of language (Cambridge, Mass.), 1(4), 452.

Nau M, et al. (2020) Behavior-dependent directional tuning in the human visual-navigation network. Nature communications, 11(1), 3247.

Backus AR, et al. (2016) Mnemonic convergence in the human hippocampus. Nature communications, 7, 11991.

Weijer C, et al. (2014) Ethics of neuroimaging after serious brain injury. BMC medical ethics, 15, 41.