Resource Summary Report

Generated by NIF on May 25, 2025

SPIKECOR: fMRI tool for automated correction of head motion spikes

RRID:SCR_014169
Type: Tool

Proper Citation

SPIKECOR: fMRI tool for automated correction of head motion spikes (RRID:SCR_014169)

Resource Information

URL: http://www.nitrc.org/projects/spikecor_fmri/

Proper Citation: SPIKECOR: fMRI tool for automated correction of head motion spikes (RRID:SCR_014169)

Description: This algorithm corrects for spikes in fMRI data, typically caused by abrupt head motion during scanning. It identifies outliers using Principal Component Analysis (PCA) in a sliding time-window; it is sensitive to global motion artifact, and stable against non-stationary signal changes.

Funding:

Resource Name: SPIKECOR: fMRI tool for automated correction of head motion spikes

Resource ID: SCR_014169

License: GNU Lesser General Public License

Record Creation Time: 20220129T080319+0000

Record Last Update: 20250525T031336+0000

Ratings and Alerts

No rating or validation information has been found for SPIKECOR: fMRI tool for automated correction of head motion spikes.

No alerts have been found for SPIKECOR: fMRI tool for automated correction of head

motion spikes.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 2 mentions in open access literature.

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

Hassel S, et al. (2020) Reliability of a functional magnetic resonance imaging task of emotional conflict in healthy participants. Human brain mapping, 41(6), 1400.

Churchill NW, et al. (2017) Optimizing fMRI preprocessing pipelines for block-design tasks as a function of age. NeuroImage, 154, 240.