

# Resource Summary Report

Generated by [NIF](#) on Aug 1, 2026

## 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/](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.

**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:** 20260725T190758+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.