# Resource Summary Report

Generated by T1D on Sep 5, 2026

## Artifact Detection Tools

RRID:SCR_005994
Type: Tool

### Proper Citation

Artifact Detection Tools (RRID:SCR_005994)

### Resource Information

**URL:** http://web.mit.edu/swg/software.htm

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**Description:** Toolbox for post-processing fMRI data. Includes software for comprehensive analysis of sources of artifacts in timeseries data including spiking and motion. Most compatible with SPM processing, but adaptable for FSL as well. * Operating System: MacOS, Windows, Linux * Programming Language: MATLAB * Supported Data Format: ANALYZE

**Abbreviations:** ART

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

**Keywords:** artifact removal, quality metrics, registration, motion analysis, neuroimaging, fmri, spike, motion, artifact, timeseries, matlab

**Availability:** Free, Available for download

**Resource Name:** Artifact Detection Tools

**Resource ID:** SCR_005994

**Alternate IDs:** nlx_151369

**Alternate URLs:** http://www.nitrc.org/projects/artifact_detect

**Record Creation Time:** 20220129T080233+0000

**Record Last Update:** 20260903T234824+0000

### Ratings and Alerts

No rating or validation information has been found for Artifact Detection Tools.

No alerts have been found for Artifact Detection Tools.

## Data and Source Information

**Source:** SciCrunch Registry

## Usage and Citation Metrics

We found 244 mentions in open access literature.

**Listed below are recent publications.** The full list is available at T1D .


Dudley J, et al. (2026) Gestational PBDE concentrations and functional connectivity in adolescents: The HOME Study. International journal of hygiene and environmental health, 272, 114745.

Sacheli LM, et al. (2026) An evolutionary conserved neural mechanism for interpersonal coordination in primates. Science advances, 12(16), eaea1927.

Baran B, et al. (2026) Sleep and wake markers of thalamocortical functioning in early-course psychosis and first-degree relatives. Schizophrenia (Heidelberg, Germany), 12(1).

Aizpurua FB, et al. (2026) In vivo modulation of locus coeruleus activity by light. bioRxiv : the preprint server for biology.

Luo X, et al. (2026) rTMS Suppresses Tobacco Craving via Enhanced Prefronto-Striato-Thalamic Connectivity. Addiction biology, 31(5), e70167.

Lau KJ, et al. (2026) Parsing Reward Processing Substages With Multimodal EEG-fMRI. Human brain mapping, 47(3), e70466.

Burgess AN, et al. (2026) Phrase-level emotional salience modulates neural substrates of situation model building in developing readers. Developmental cognitive neuroscience, 79, 101707.

Scarratt RJ, et al. (2026) Individual differences in the effects of musical familiarity and musical features on brain activity during relaxation. Cognitive, affective & behavioral neuroscience, 26(1), 155.

Yuksel E, et al. (2026) Replicability of representational similarity and its role in successful memory retrieval. Imaging neuroscience (Cambridge, Mass.), 4.

Delplanque J, et al. (2026) The good, the bad, and the in-between: an exploratory study of how different groups may be represented in the brain. Frontiers in behavioral neuroscience, 20, 1773300.

Shibata M, et al. (2025) Alterations of the default mode network, salience network, and frontoparietal network in non-problematic Internet use and their association with mood

regulation: from an internet literacy perspective. Frontiers in neuroscience, 19, 1599987.

Bush NJ, et al. (2025) The Two Sides of Placebo Analgesia: Differential Functional Connectivity Reveals Mechanisms of Placebo Analgesic Response. Journal of pain research, 18, 189.

Van Maldegem M, et al. (2025) Connectome harmonic decomposition tracks the presence of disconnected consciousness during ketamine-induced unresponsiveness. British journal of anaesthesia, 134(4), 1088.

Haihambo N, et al. (2025) Crus control: effective cerebello-cerebral connectivity during social action prediction using dynamic causal modelling. Social cognitive and affective neuroscience, 20(1).

Sato SD, et al. (2025) Resting state brain network segregation is associated with walking speed and working memory in older adults. NeuroImage, 310, 121155.

Cai DC, et al. (2025) Altered angular gyrus activation during the digit symbol substitution test in people living with HIV: beyond information processing speed deficits. Scientific reports, 15(1), 5808.

Kim SY, et al. (2025) Reduced prefrontal activation during cognitive control under emotional interference in chronic insomnia disorder. Journal of sleep research, 34(3), e14383.

Benson DE, et al. (2025) What's the harm? Examining police contact and amygdala reactivity among black adolescents. Social cognitive and affective neuroscience, 20(1).

Ayyildiz B, et al. (2025) Exploring connectivity and volume alterations in the Pulvinar's subnuclei: insights into the neuropathological role in obsessive-compulsive disorder (OCD). Psychological medicine, 55, e206.

Catoira B, et al. (2025) Exploring the Effects of Cerebellar tDCS on Brain Connectivity Using Resting-State fMRI. Brain and behavior, 15(2), e70302.