

Resource Summary Report

Generated by PRECISE-TBI on Sep 7, 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: 20260905T132545+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 [PRECISE-TBI](#) .

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

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.

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

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*.

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.

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.

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.

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

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.

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.

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).

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.

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).

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.

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