

Resource Summary Report

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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: image processing software, software toolkit, software application, data processing software, image analysis software, software resource

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: 20260804T043259+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 204 mentions in open access literature.

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

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.

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.

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).

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.

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).

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.

Cushnie AK, et al. (2025) Insula under the influence: Alcohol-induced changes in resting state functional connectivity. *Alcohol, clinical & experimental research*, 49(6), 1221.

Luppi AI, et al. (2025) General anaesthesia decreases the uniqueness of brain functional connectivity across individuals and species. *Nature human behaviour*, 9(5), 987.

Song J, et al. (2025) Impaired insight in schizophrenia is associated with higher frontoparietal cerebral blood flow: an arterial spin labeling study. *Schizophrenia (Heidelberg, Germany)*, 11(1), 2.

Pauligk S, et al. (2025) Overcontrol in anorexia nervosa: Elevated prefrontal activity and amygdala connectivity in a working memory task with food distractors. *International journal of clinical and health psychology : IJCHP*, 25(1), 100544.

Campbell I, et al. (2025) Regional activity within the human amygdala varies with season, mood and illuminance. *Nature communications*, 16(1), 11559.

Wei JM, et al. (2025) Brain Activation Features in Response to the Expectation of Receiving Rewards Through Aggression. *Brain sciences*, 15(12).

von Schröder C, et al. (2025) Dissociative experiences alter resting state functional connectivity after childhood abuse. *Scientific reports*, 15(1), 4095.

Papantoni A, et al. (2025) Connectome-wide brain signature during fast-food advertisement exposure predicts BMI at 2 years. *Social cognitive and affective neuroscience*, 20(1).

Yang Y, et al. (2025) Potential locations for non-invasive brain stimulation in treating ADHD: Results from a cross-dataset validation of functional connectivity analysis. *Translational psychiatry*, 15(1), 81.

King JA, et al. (2025) Exaggerated frontoparietal control over cognitive effort-based decision-making in young women with anorexia nervosa. *Molecular psychiatry*, 30(3), 861.