Resource Summary Report

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ArtRepair for robust fMRI

RRID:SCR_005990
Type: Tool

Proper Citation

ArtRepair for robust fMRI (RRID:SCR_005990)

Resource Information

URL: http://cibsr.stanford.edu/tools/human-brain-project/artrepair-software.html

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Description: A toolbox for SPM to improve fMRI analysis of high motion pediatric and clinical subjects. The toolbox includes special algorithms for motion adjustment, data repair, and noise filtering, and methods to find outlier subjects in group studies. Visualization tools are included for quality checking the data, including a movie format for viewing all data and all contrast estimates on every voxel of every subject. Methods are included to quantify results into percent signal change. * Operating System: OS Independent * Programming Language: MATLAB * Supported Data Format: ANALYZE, NIfTI-1 * execution requires: SPM

Abbreviations: ArtRepair

Synonyms: Art Repair, ArtRepair Software

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

Keywords: algorithm or reusable library, artifact removal, quality metrics, motion analysis, image display, fmri, motion adjustment, data repair, noise filtering, high motion, pediatric, spm, matlab, clinical. pediatric, child

Funding:

Availability: Acknowledgement required, Non-commercial

Resource Name: ArtRepair for robust fMRI

Resource ID: SCR_005990

Alternate IDs: nlx_151367

Alternate URLs: http://www.nitrc.org/projects/art_repair

Record Creation Time: 20220129T080233+0000

Record Last Update: 20250517T055730+0000

Ratings and Alerts

No rating or validation information has been found for ArtRepair for robust fMRI.

No alerts have been found for ArtRepair for robust fMRI.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 114 mentions in open access literature.

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

Ontivero-Ortega M, et al. (2024) Intra-V1 functional networks and classification of observed stimuli. Frontiers in neuroinformatics, 18, 1080173.

Wang J, et al. (2024) Syntactic and semantic specialization in 9- to 10-year-old children during auditory sentence processing. Scientific reports, 14(1), 26965.

Ogura Y, et al. (2023) Hyperthymic temperament predicts neural responsiveness for nonmonetary reward. PCN reports : psychiatry and clinical neurosciences, 2(3), e140.

Pini L, et al. (2022) Brain network modulation in Alzheimer's and frontotemporal dementia with transcranial electrical stimulation. Neurobiology of aging, 111, 24.

Winkelmeier L, et al. (2022) Striatal hub of dynamic and stabilized prediction coding in forebrain networks for olfactory reinforcement learning. Nature communications, 13(1), 3305.

Barouch B, et al. (2022) Neural Processing of Morphology During Reading in Children. Neuroscience, 485, 37.

Lyu D, et al. (2022) Intrinsic brain dynamics in the Default Mode Network predict involuntary fluctuations of visual awareness. Nature communications, 13(1), 6923.

Hyatt CJ, et al. (2022) Atypical Dynamic Functional Network Connectivity State Engagement during Social-Emotional Processing in Schizophrenia and Autism. Cerebral cortex (New York, N.Y. : 1991), 32(16), 3406.

Di Tella S, et al. (2021) How Do We Motorically Resonate in Aging? A Compensatory Role of Prefrontal Cortex. Frontiers in aging neuroscience, 13, 694676.

van Rooij SJH, et al. (2021) Hippocampal activation during contextual fear inhibition related to resilience in the early aftermath of trauma. Behavioural brain research, 408, 113282.

Davies KA, et al. (2021) Interferon and anti-TNF therapies differentially modulate amygdala reactivity which predicts associated bidirectional changes in depressive symptoms. Molecular psychiatry, 26(9), 5150.

Wang J, et al. (2021) Reciprocal relations between reading skill and the neural basis of phonological awareness in 7- to 9-year-old children. NeuroImage, 236, 118083.

Bell S, et al. (2021) Associations Between Smoking Abstinence, Inhibitory Control, and Smoking Behavior: An fMRI Study. Frontiers in psychiatry, 12, 592443.

Vaidya AR, et al. (2021) Neural representation of abstract task structure during generalization. eLife, 10.

Lohoff FW, et al. (2021) Epigenome-wide association study and multi-tissue replication of individuals with alcohol use disorder: evidence for abnormal glucocorticoid signaling pathway gene regulation. Molecular psychiatry, 26(6), 2224.

Grady CL, et al. (2021) Influence of sample size and analytic approach on stability and interpretation of brain-behavior correlations in task-related fMRI data. Human brain mapping, 42(1), 204.

Workman CI, et al. (2021) Morality is in the eye of the beholder: the neurocognitive basis of the "anomalous-is-bad" stereotype. Annals of the New York Academy of Sciences, 1494(1), 3.

Fish S, et al. (2021) Interaction of schizophrenia and chronic cannabis use on reward anticipation sensitivity. NPJ schizophrenia, 7(1), 33.

Wagley N, et al. (2021) Neuro-cognitive development of semantic and syntactic bootstrapping in 6- to 7.5-year-old children. NeuroImage, 241, 118416.

Wang J, et al. (2021) Semantic and syntactic specialization during auditory sentence processing in 7-8-year-old children. Cortex; a journal devoted to the study of the nervous system and behavior, 145, 169.