

Resource Summary Report

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Neuroscience Information Toolbox

RRID:SCR_014501

Type: Tool

Proper Citation

Neuroscience Information Toolbox (RRID:SCR_014501)

Resource Information

URL: <http://www.neuro.uestc.edu.cn/NIT.html>

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Description: A toolkit for EEG-fMRI multimodal fusion and fMRI data preprocessing and analysis. NIT allows users to perform batch processing of fMRI data analysis and data preprocessing based on SPM8, as well as parallel computing for data preprocessing, nuisance signals removal, and FCD and FOCA calculating. Users can also use NIT to calculate functional connectivity density and four dimensional (spatio-temporal) consistency of local neural activities.

Abbreviations: NIT

Synonyms: Neuroscience Information Toolbox (NIT)

Resource Type: software application, data processing software, software resource, software toolkit

Keywords: foca, four dimensional consistency of local neural activities, software toolkit, eeg, fmri, multimodal fusion, parallel framework, fcd, functional connectivity density

Availability: Acknowledgement requested, Non-commercial use only, Freeware but not in the public domain

Resource Name: Neuroscience Information Toolbox

Resource ID: SCR_014501

Record Creation Time: 20220129T080320+0000

Record Last Update: 20260812T044250+0000

Ratings and Alerts

No rating or validation information has been found for Neuroscience Information Toolbox.

No alerts have been found for Neuroscience Information Toolbox.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 26 mentions in open access literature.

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

Liao Y, et al. (2025) Alterations in Functional Connectivity Density in Patients With Phantom Limb Pain. The Journal of comparative neurology, 533(5), e70058.

Chen J, et al. (2024) The role of the primary sensorimotor system in generalized epilepsy: Evidence from the cerebello-cerebral functional integration. Human brain mapping, 45(1), e26551.

Yang J, et al. (2024) Spatiotemporal consistency analysis of cerebral small vessel disease: an rs-fMRI study. Frontiers in neuroscience, 18, 1385960.

Yang F, et al. (2023) Altered Language-Related Effective Connectivity in Patients with Benign Childhood Epilepsy with Centrotemporal Spikes. Life (Basel, Switzerland), 13(2).

Feng L, et al. (2023) Resting-state functional connectivity of the cerebellum-cerebrum in older women with depressive symptoms. BMC psychiatry, 23(1), 732.

Jiang S, et al. (2023) Progressive trajectories of schizophrenia across symptoms, genes, and the brain. BMC medicine, 21(1), 237.

Gao W, et al. (2021) Altered spatiotemporal consistency in pediatric bipolar disorder patients with and without psychotic symptoms. BMC psychiatry, 21(1), 506.

Wang Y, et al. (2021) Identifying Internet Addiction and Evaluating the Efficacy of Treatment Based on Functional Connectivity Density: A Machine Learning Study. Frontiers in neuroscience, 15, 665578.

Dong L, et al. (2021) WeBrain: A web-based braininformatics platform of computational ecosystem for EEG big data analysis. NeuroImage, 245, 118713.

Zhang Y, et al. (2021) Functional and structural connective disturbance of the primary and default network in patients with generalized tonic-clonic seizures. Epilepsy research, 174, 106595.

Jiang S, et al. (2020) Altered Static and Dynamic Spontaneous Neural Activity in Drug-Na??ve and Drug-Receiving Benign Childhood Epilepsy With Centrotemporal Spikes. Frontiers in human neuroscience, 14, 361.

Wen X, et al. (2020) Alterations of local functional connectivity in lifespan: A resting-state fMRI study. *Brain and behavior*, 10(7), e01652.

Wang Y, et al. (2020) The Modulation of Reward and Habit Systems by Acupuncture in Adolescents with Internet Addiction. *Neural plasticity*, 2020, 7409417.

Wang D, et al. (2020) Spatiotemporal consistency analysis of attention-deficit/hyperactivity disorder children. *Neuroscience letters*, 734, 135099.

Dong L, et al. (2019) A Comparative Study of Different EEG Reference Choices for Event-Related Potentials Extracted by Independent Component Analysis. *Frontiers in neuroscience*, 13, 1068.

Wen X, et al. (2019) Detecting the Information of Functional Connectivity Networks in Normal Aging Using Deep Learning From a Big Data Perspective. *Frontiers in neuroscience*, 13, 1435.

Wang Y, et al. (2019) Abnormal Functional Connectivity in Cognitive Control Network, Default Mode Network, and Visual Attention Network in Internet Addiction: A Resting-State fMRI Study. *Frontiers in neurology*, 10, 1006.

Jiang Y, et al. (2019) Insular changes induced by electroconvulsive therapy response to symptom improvements in schizophrenia. *Progress in neuro-psychopharmacology & biological psychiatry*, 89, 254.

Gong D, et al. (2019) Electronic-Sports Experience Related to Functional Enhancement in Central Executive and Default Mode Areas. *Neural plasticity*, 2019, 1940123.

Qin Y, et al. (2019) BOLD-fMRI activity informed by network variation of scalp EEG in juvenile myoclonic epilepsy. *NeuroImage. Clinical*, 22, 101759.