

Resource Summary Report

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FastICA

RRID:SCR_013110

Type: Tool

Proper Citation

FastICA (RRID:SCR_013110)

Resource Information

URL: <http://www.cis.hut.fi/projects/ica/fastica/>

Proper Citation: FastICA (RRID:SCR_013110)

Description: General-purpose unsupervised data-analysis tool, most often used for brain imaging data.

Abbreviations: FastICA

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

Keywords: independent component analysis, magnetic resonance, statistical operatio, matlab

Availability: GNU General Public License

Resource Name: FastICA

Resource ID: SCR_013110

Alternate IDs: nlx_155758

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

Record Creation Time: 20220129T080314+0000

Record Last Update: 20260728T043420+0000

Ratings and Alerts

No rating or validation information has been found for FastICA.

No alerts have been found for FastICA.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 185 mentions in open access literature.

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

Poudel S, et al. (2025) Interpreting roles of mutations associated with the emergence of *S. aureus* USA300 strains using transcriptional regulatory network reconstruction. *eLife*, 12.

Betts JW, et al. (2025) Cryptogenic Stroke and Migraine: Using Probabilistic Independence and Machine Learning to Uncover Latent Sources of Disease from the Electronic Health Record. *ArXiv*.

Ni J, et al. (2025) Blind source separation and unmanned aerial vehicle classification using CNN with hybrid cross-channel and spatial attention module. *Scientific reports*, 15(1), 21905.

Barrantes-Cepas M, et al. (2025) Treatment effects of cladribine tablets on data-driven patterns of regional grey matter atrophy in multiple sclerosis. *Multiple sclerosis (Houndmills, Basingstoke, England)*, 31(6), 696.

Anliker AE, et al. (2025) Neural correlates of fatigue after traumatic brain injury. *Brain communications*, 7(2), fcaf082.

Lasko TA, et al. (2025) Unsupervised discovery of clinical disease signatures using probabilistic independence. *Journal of biomedical informatics*, 166, 104837.

Song X, et al. (2025) The impact of high-frequency rTMS treatment on brain activity in PSCI patients: a TMS-EEG study. *Frontiers in neurology*, 16, 1582437.

Albert L, et al. (2025) Extrastriate activity reflects sensorimotor-induced bias in estimating number of visual humans. *Cerebral cortex (New York, N.Y. : 1991)*, 35(9).

Servetnik MV, et al. (2025) Visual representations in the human brain rely on a reference frame that is in between allocentric and retinocentric coordinates. *bioRxiv : the preprint server for biology*.

Zhao Y, et al. (2025) Dual 500- μ s wide pulse neuromuscular electrical stimulation enhancing sensorimotor cortical excitability. *Frontiers in human neuroscience*, 19, 1629003.

Ota K, et al. (2025) Influence of local temperature on motor unit behavior during rapid contractions in humans. *European journal of applied physiology*, 125(9), 2581.

Geng X, et al. (2025) An improved feature extraction algorithm for EEG-based driving fatigue recognition. *Scientific reports*, 15(1), 33226.

van Velthoven CTJ, et al. (2025) Transcriptomic and spatial organization of telencephalic GABAergic neurons. *Nature*, 647(8088), 143.

Cheng Y, et al. (2025) Investigating the Amyloid-Tau-Neurodegeneration Framework in Alzheimer's Disease Using Semi-Supervised Multimodal Imaging Data Fusion. *medRxiv* : the preprint server for health sciences.

Jovanovi? V, et al. (2025) The Practical Implications of Re-Referencing in ERP Studies: The Case of N400 in the Picture-Word Verification Task. *Diagnostics (Basel, Switzerland)*, 15(2).

Tuomaala S, et al. (2025) Automated speech artefact removal from MEG data utilizing facial gestures and mutual information. *Imaging neuroscience (Cambridge, Mass.)*, 3.

Che X, et al. (2025) Physical activity simultaneously improves working memory and ripple-spindle coupling. *Communications biology*, 8(1), 1187.

Forte V, et al. (2025) Neural plasticity in early potters: Shape analysis and TMS-EEG co-registration trace the rise of a new motor skill. *PloS one*, 20(1), e0316545.

Wang Q, et al. (2025) Le Petit Prince (LPP) multi-talker: Naturalistic 7 T fMRI and EEG dataset. *Scientific data*, 12(1), 829.

Wu J, et al. (2025) Clinical Effect on Cortical Reactivity of Theta Burst Versus High-Frequency Repetitive Transcranial Magnetic Stimulation in Parkinson's Disease: A TMS-EEG Study. *CNS neuroscience & therapeutics*, 31(9), e70605.