Resource Summary Report

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CoSMoMVPA

RRID:SCR_014519
Type: Tool

Proper Citation

CoSMoMVPA (RRID:SCR_014519)

Resource Information

URL: http://cosmomvpa.org

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Description: A multi-modal multivariate pattern analysis of neuroimaging data in Matlab / GNU Octave. Links to examples, exercises, and information for developers are available on the main page.

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

Defining Citation: DOI:10.1101/047118

Keywords: functional magnetic resonance imaging, magnetoencephalography, multivariate pattern analysis, neuroscience, weill cornell, software toolkit, data analysis software

Funding: Autonomous Province of Trento ;
Call Grandi Progetti 2012 ;
project Characterizing and improving brain mechanisms of attention - ATTEND

Availability: Available for download

Resource Name: CoSMoMVPA

Resource ID: SCR_014519

Alternate URLs: https://github.com/CoSMoMVPA/CoSMoMVPA

License: Expat (MIT) free, Open source software license

License URLs: http://cosmomvpa.org/copyright.html

Record Creation Time: 20220129T080320+0000

Record Last Update: 20250424T065319+0000

Ratings and Alerts

No rating or validation information has been found for CoSMoMVPA.

No alerts have been found for CoSMoMVPA.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 150 mentions in open access literature.

Listed below are recent publications. The full list is available at FDI Lab - SciCrunch.org.

Zheng Y, et al. (2025) Neural representation of sensorimotor features in language-motor areas during auditory and visual perception. Communications biology, 8(1), 41.

Feng YJ, et al. (2025) Decoding dynamic faces and scenes without awareness under dis-continuous flash suppression. Communications biology, 8(1), 151.

Lee Masson H, et al. (2024) Multidimensional neural representations of social features during movie viewing. Social cognitive and affective neuroscience, 19(1).

Chen L, et al. (2024) Coherent categorical information triggers integration-related alpha dynamics. Journal of neurophysiology, 131(4), 619.

Viganò S, et al. (2024) Spontaneous eye movements reflect the representational geometries of conceptual spaces. Proceedings of the National Academy of Sciences of the United States of America, 121(17), e2403858121.

Nara S, et al. (2024) Integrative processing in artificial and biological vision predicts the perceived beauty of natural images. Science advances, 10(9), eadi9294.

Pillet I, et al. (2024) A 7T fMRI investigation of hand and tool areas in the lateral and ventral occipitotemporal cortex. PloS one, 19(11), e0308565.

Amaral L, et al. (2024) Longitudinal stability of individual brain plasticity patterns in blindness. Proceedings of the National Academy of Sciences of the United States of America, 121(32),

e2320251121.

Graves WW, et al. (2024) An inclusive multivariate approach to neural localization of language components. Brain structure & function, 229(5), 1243.

Yan X, et al. (2024) Reading disability is characterized by reduced print-speech convergence. Child development, 95(6), 1982.

Thibault S, et al. (2024) Activity in Occipito-Temporal Cortex Is Involved in Tool-Use Planning and Contributes to Tool-Related Semantic Neural Representations. Neurobiology of language (Cambridge, Mass.), 5(4), 1008.

Czajko S, et al. (2024) Human brain representations of internally generated outcomes of approximate calculation revealed by ultra-high-field brain imaging. Nature communications, 15(1), 572.

Zhang Y, et al. (2024) Representation of event and object concepts in ventral anterior temporal lobe and angular gyrus. Cerebral cortex (New York, N.Y. : 1991), 34(2).

Raij T, et al. (2024) Onset timing of letter processing in auditory and visual sensory cortices. Frontiers in integrative neuroscience, 18, 1427149.

Lee KM, et al. (2024) More than labels: neural representations of emotion words are widely distributed across the brain. Social cognitive and affective neuroscience, 19(1).

Cong P, et al. (2024) Elucidating the underlying components of metacognitive systematic bias in the human dorsolateral prefrontal cortex and inferior parietal cortex. Scientific reports, 14(1), 11380.

Liu S, et al. (2024) Dissociating goal from outcome during action observation. Cerebral cortex (New York, N.Y. : 1991), 34(12).

Iriye H, et al. (2024) Sense of own body shapes neural processes of memory encoding and reinstatement. Cerebral cortex (New York, N.Y. : 1991), 34(1).

Zhu H, et al. (2024) Natural scenes reveal diverse representations of 2D and 3D body pose in the human brain. Proceedings of the National Academy of Sciences of the United States of America, 121(24), e2317707121.

Stecher R, et al. (2024) Representations of imaginary scenes and their properties in cortical alpha activity. Scientific reports, 14(1), 12796.