Resource Summary Report

Generated by NIF on May 23, 2025

CLEAVE

RRID:SCR_007113
Type: Tool

Proper Citation

CLEAVE (RRID:SCR_007113)

Resource Information

URL: http://www.ebire.org/hcnlab/software/cleave.html

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Description: A UNIX-style command-line program which quickly computes multifactorial ANOVAs for very large data sets with minimal memory use (without loading all of the data into memory). It has been used for fMRI analysis, e.g. CLEAVE adds the following to the standard ANOVA analyses: # Unlimited numbers of factors can be analyzed. # Factor Correlation and Unequal Variance Corrections # Treatment Magnitudes: omega^2, partial eta^2, and R^2 # A convenient Ranking of Factors based upon treatment magnitudes and significance levels. # Post-Hoc Significance Tests # Post-Hoc Power Table to gauge how many subjects will be needed to achieve significance. # Allows the use of Random Factors. # A Configuration File to make the program more tunable # A Histogram and Cell Line Diagrams: which help the user to detect outliers. # Associated MATLAB functions: port CLEAVE-style data sets in or out of MATLAB.

Abbreviations: CLEAVE

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

Keywords: c, console (text based), macos, microsoft, magnetic resonance, posix/unix-like, statistical operation

Funding:

Availability: Creative Commons Attribution License

Resource Name: CLEAVE

Resource ID: SCR_007113

Alternate IDs: nlx_155530

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

Record Creation Time: 20220129T080239+0000

Record Last Update: 20250522T060353+0000

Ratings and Alerts

No rating or validation information has been found for CLEAVE.

No alerts have been found for CLEAVE.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 15 mentions in open access literature.

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

Ganji R, et al. (2023) The p97-UBXD8 complex regulates ER-Mitochondria contact sites by altering membrane lipid saturation and composition. Nature communications, 14(1), 638.

Hládek ?, et al. (2023) Speech Intelligibility in Reverberation is Reduced During Self-Rotation. Trends in hearing, 27, 23312165231188619.

Monaghan TI, et al. (2022) Deletion of glyceraldehyde-3-phosphate dehydrogenase (gapN) in Clostridium saccharoperbutylacetonicum N1-4(HMT) using CLEAVE™ increases the ATP pool and accelerates solvent production. Microbial biotechnology, 15(5), 1574.

Ivanova MV, et al. (2021) An empirical comparison of univariate versus multivariate methods for the analysis of brain-behavior mapping. Human brain mapping, 42(4), 1070.

Wang X, et al. (2020) Protective effect of Aster tataricus extract on NLRP3-mediated pyroptosis of bladder urothelial cells. Journal of cellular and molecular medicine, 24(22), 13336.

Kopco N, et al. (2020) Cortical auditory distance representation based on direct-to-reverberant energy ratio. NeuroImage, 208, 116436.

Hládek ?, et al. (2019) On the Interaction of Head and Gaze Control With Acoustic Beam Width of a Simulated Beamformer in a Two-Talker Scenario. Trends in hearing, 23, 2331216519876795.

Woods DL, et al. (2018) The Dyad-Adaptive Paced Auditory Serial Addition Test (DA-PASAT): Normative data and the effects of repeated testing, simulated malingering, and traumatic brain injury. PloS one, 13(4), e0178148.

Woods DL, et al. (2016) Computerized Analysis of Verbal Fluency: Normative Data and the Effects of Repeated Testing, Simulated Malingering, and Traumatic Brain Injury. PloS one, 11(12), e0166439.

Woods DL, et al. (2016) A Computerized Test of Design Fluency. PloS one, 11(5), e0153952.

Woods DL, et al. (2015) The Effects of Repeated Testing, Simulated Malingering, and Traumatic Brain Injury on Visual Choice Reaction Time. Frontiers in human neuroscience, 9, 595.

Chadick JZ, et al. (2014) Structural and functional differences in medial prefrontal cortex underlie distractibility and suppression deficits in ageing. Nature communications, 5, 4223.

Ihlefeld A, et al. (2012) Interaural level differences do not suffice for restoring spatial release from masking in simulated cochlear implant listening. PloS one, 7(9), e45296.

Herron TJ, et al. (2012) Automated measurement of the human corpus callosum using MRI. Frontiers in neuroinformatics, 6, 25.

Woods DL, et al. (2010) Functional properties of human auditory cortical fields. Frontiers in systems neuroscience, 4, 155.