Resource Summary Report

Generated by FDI Lab - SciCrunch.org on Apr 13, 2025

CIGAL

RRID:SCR_002232
Type: Tool

Proper Citation

CIGAL (RRID:SCR_002232)

Resource Information

URL: http://wiki.biac.duke.edu/jvs:cigal

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Description: A software program that provides accurate real-time stimulus control, behavioral and physiological recording, and synchronization with external devices. It can also provide continuous real-time feedback of task performance and physiological responses. Task programming typically involves a simple text file specifying basic parameter settings (e.g. screen color) and a list of stimulus events, which can include images, animated movies, sound files, text stimuli, video graphics, or commands that communicate with external hardware devices. Multiple video and auditory stimuli can be presented simultaneously. Multi-channel response recording and real-time feedback features require no user programming. Advanced users can add customized stimulus events using CIGAL's real-time programming capabilities. Output files can be automatically created in a variety of output formats (e.g. FSL 3-column files, XML Events files, CSV trial tables).

Abbreviations: CIGAL

Synonyms: Compilable Imaging Graphics and Analytical Language

Resource Type: software resource

Keywords: magnetic resonance, stimulus control, behavioral recording, physiological recording

Funding:

Availability: Available for download

Resource Name: CIGAL

Resource ID: SCR_002232

Alternate IDs: nlx_155528

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

Old URLs: http://fourier.biac.duke.edu/wiki/doku.php/jvs:cigal

License: CIGAL License

Record Creation Time: 20220129T080212+0000

Record Last Update: 20250410T064840+0000

Ratings and Alerts

No rating or validation information has been found for CIGAL.

No alerts have been found for CIGAL.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 6 mentions in open access literature.

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

Heunis S, et al. (2020) Quality and denoising in real-time functional magnetic resonance imaging neurofeedback: A methods review. Human brain mapping, 41(12), 3439.

Detloff AM, et al. (2020) Neural signatures of promotion versus prevention goal priming: fMRI evidence for distinct cognitive-motivational systems. Personality neuroscience, 3, e1.

Katsumi Y, et al. (2017) Neural Correlates of Racial Ingroup Bias in Observing Computer-Animated Social Encounters. Frontiers in human neuroscience, 11, 632.

Carpenter KL, et al. (2015) Preschool anxiety disorders predict different patterns of amygdala-prefrontal connectivity at school-age. PloS one, 10(1), e0116854.

Denkova E, et al. (2013) The Effect of Retrieval Focus and Emotional Valence on the Medial Temporal Lobe Activity during Autobiographical Recollection. Frontiers in behavioral

neuroscience, 7, 109.

Hart SJ, et al. (2006) Visuospatial executive function in Turner syndrome: functional MRI and neurocognitive findings. Brain : a journal of neurology, 129(Pt 5), 1125.