Resource Summary Report

Generated by NIF on May 23, 2025

Optseq

RRID:SCR_014363
Type: Tool

Proper Citation

Optseq (RRID:SCR_014363)

Resource Information

URL: http://surfer.nmr.mgh.harvard.edu/optseq/

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Description: Software tool for automatically scheduling events for rapid-presentation event-related (RPER) fMRI experiments (the schedule is the order and timing of events). Events in RPER are presented closely enough in time that their hemodynamic responses will overlap. This requires that the onset times of the events be jittered in order to remove the overlap from the estimate of the hemodynamic response. RPER is highly resistant to habituation, expectation, and set because the subject does not know when the next stimulus will appear or which stimulus type it will be.

Synonyms: Optseq2, Optseq - fMRI Event Scheduler

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

Keywords: fmri, scheduling event, event, rper, hemodynamic response, stimulus, stochastic design

Funding:

Availability: Available for download

Resource Name: Optseq

Resource ID: SCR_014363

Alternate IDs: SCR_005976, nlx_151349

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

Record Creation Time: 20220129T080320+0000

Record Last Update: 20250523T055025+0000

Ratings and Alerts

No rating or validation information has been found for Optseq.

No alerts have been found for Optseq.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 324 mentions in open access literature.

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

Dumitrescu AM, et al. (2025) Investigating the Spatio-Temporal Signatures of Language Control-Related Brain Synchronization Processes. Human brain mapping, 46(2), e70109.

Cho E, et al. (2024) Neural processing of prototypicality and simplicity of product design in forming design preferences. PloS one, 19(1), e0297148.

Toenders YJ, et al. (2024) Developing body estimation in adolescence is associated with neural regions that support self-concept. Social cognitive and affective neuroscience, 19(1).

Park H, et al. (2024) Involvement of the anterior insula and frontal operculum during wh-question comprehension of wh-in-situ Korean language. PloS one, 19(4), e0298740.

Martín-Signes M, et al. (2024) Integrating brain function and structure in the study of the human attentional networks: a functionnectome study. Brain structure & function, 229(7), 1665.

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

Chai XJ, et al. (2024) From vision to memory: How scene-sensitive regions support episodic memory formation during child development. Developmental cognitive neuroscience, 65, 101340.

van der Cruijsen R, et al. (2024) The role of autism and alexithymia traits in behavioral and

neural indicators of self-concept and self-esteem in adolescence. Autism : the international journal of research and practice, 28(9), 2346.

Gong Z, et al. (2023) A large-scale fMRI dataset for the visual processing of naturalistic scenes. Scientific data, 10(1), 559.

van de Groep S, et al. (2023) Temporal discounting for self and friends in adolescence: A fMRI study. Developmental cognitive neuroscience, 60, 101204.

Zhou M, et al. (2023) A large-scale fMRI dataset for human action recognition. Scientific data, 10(1), 415.

van der Cruijsen R, et al. (2023) Longitudinal self-concept development in adolescence. Social cognitive and affective neuroscience, 18(1).

Folvik L, et al. (2023) Sustained upregulation of widespread hippocampal-neocortical coupling following memory encoding. Cerebral cortex (New York, N.Y. : 1991), 33(8), 4844.

Branzi FM, et al. (2023) Semantic-specific and domain-general mechanisms for integration and update of contextual information. Human brain mapping, 44(17), 5547.

Rae CL, et al. (2023) Elevated representational similarity of voluntary action and inhibition in Tourette syndrome. Brain communications, 5(5), fcad224.

Du J, et al. (2023) Within-Individual Organization of the Human Cerebral Cortex: Networks, Global Topography, and Function. bioRxiv : the preprint server for biology.

Peters A, et al. (2023) Visual perceptual load and processing of somatosensory stimuli in primary and secondary somatosensory cortices. Scientific reports, 13(1), 7005.

Gore KR, et al. (2022) Direct Neural Evidence for the Contrastive Roles of the Complementary Learning Systems in Adult Acquisition of Native Vocabulary. Cerebral cortex (New York, N.Y. : 1991), 32(16), 3392.

Hwang TJ, et al. (2022) Hemispheric lateralization of semantic processing before and after aripiprazole treatment in first-episode psychosis or ultra-high risk state. Schizophrenia (Heidelberg, Germany), 8(1), 108.

Yang H, et al. (2022) From words to phrases: neural basis of social event semantic composition. Brain structure & function, 227(5), 1683.