

Resource Summary Report

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SpiSOP

RRID:SCR_015673

Type: Tool

Proper Citation

SpiSOP (RRID:SCR_015673)

Resource Information

URL: <http://www.spisop.org>

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Description: Software for detection and reporting of spindle or slow oscillation events, simple automatic EMG artifacts, and their co-occurrence or respective matching non-events. SpiSOP was designed to process large data quanta at once and multiple datasets in parallel.

Synonyms: Spindles Slow Oscillation and Power-spectral-density

Resource Type: data processing resource, source code, software resource, software toolkit

Keywords: spindle, slow oscillation, frequency band, sleep, eeg, meg, emg artifact detection, matlab, sleep scoring, file conversion

Funding:

Availability: Open Source, Available for download, Runs on Windows, Runs on Mac OS, Runs on Linux

Resource Name: SpiSOP

Resource ID: SCR_015673

Alternate URLs: <https://github.com/Frederik-D-Weber/spisop>

License: GPLv2+

Record Creation Time: 20220129T080327+0000

Ratings and Alerts

No rating or validation information has been found for SpiSOP.

No alerts have been found for SpiSOP.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 30 mentions in open access literature.

Listed below are recent publications. The full list is available at [FDI Lab - SciCrunch.org](#).

Lutz ND, et al. (2024) Sleep shapes the associative structure underlying pattern completion in multielement event memory. *Proceedings of the National Academy of Sciences of the United States of America*, 121(9), e2314423121.

Boon ME, et al. (2024) The daily reciprocal associations between electroencephalography measured sleep and affect. *Journal of sleep research*, e14258.

Rehel S, et al. (2024) Sleep oscillations related to memory consolidation during aromatases inhibitors for breast cancer. *Sleep medicine*, 121, 210.

Elia C, et al. (2023) Effects of sleep disturbances and circadian rhythms modifications on cognition in breast cancer women before and after adjuvant chemotherapy: the ICANSLEEP-1 protocol. *BMC cancer*, 23(1), 1178.

Bastian L, et al. (2022) Spindle-slow oscillation coupling correlates with memory performance and connectivity changes in a hippocampal network after sleep. *Human brain mapping*, 43(13), 3923.

Beck J, et al. (2022) Stress dynamically reduces sleep depth: temporal proximity to the stressor is crucial. *Cerebral cortex (New York, N.Y. : 1991)*, 33(1), 96.

Roebber JK, et al. (2022) Effects of Anti-Seizure Medication on Sleep Spindles and Slow Waves in Drug-Resistant Epilepsy. *Brain sciences*, 12(10).

Bovy L, et al. (2022) Non-REM sleep in major depressive disorder. *NeuroImage. Clinical*, 36, 103275.

Samanta A, et al. (2021) Sleep Leads to Brain-Wide Neural Changes Independent of

Allocentric and Egocentric Spatial Training in Humans and Rats. *Cerebral cortex* (New York, N.Y. : 1991), 31(11), 4970.

Weber FD, et al. (2021) Coupling of gamma band activity to sleep spindle oscillations - a combined EEG/MEG study. *NeuroImage*, 224, 117452.

Lutz ND, et al. (2021) Occipital sleep spindles predict sequence learning in a visuo-motor task. *Sleep*, 44(8).

Kurz EM, et al. (2021) How do children with autism spectrum disorder form gist memory during sleep? A study of slow oscillation-spindle coupling. *Sleep*, 44(6).

Carbone J, et al. (2021) The effect of zolpidem on targeted memory reactivation during sleep. *Learning & memory* (Cold Spring Harbor, N.Y.), 28(9), 307.

Beck J, et al. (2021) Hypnotic Suggestions Increase Slow-Wave Parameters but Decrease Slow-Wave Spindle Coupling. *Nature and science of sleep*, 13, 1383.

Gott J, et al. (2021) Virtual reality training of lucid dreaming. *Philosophical transactions of the Royal Society of London. Series B, Biological sciences*, 376(1817), 20190697.

Forcato C, et al. (2020) Reactivation during sleep with incomplete reminder cues rather than complete ones stabilizes long-term memory in humans. *Communications biology*, 3(1), 733.

Spanò G, et al. (2020) Sleeping with Hippocampal Damage. *Current biology : CB*, 30(3), 523.

Cha KS, et al. (2020) Impaired slow oscillation, sleep spindle, and slow oscillation-spindle coordination in patients with idiopathic restless legs syndrome. *Sleep medicine*, 66, 139.

Cross ZR, et al. (2020) Individual alpha frequency modulates sleep-related emotional memory consolidation. *Neuropsychologia*, 148, 107660.

Bolinger E, et al. (2019) Sleep's benefits to emotional processing emerge in the long term. *Cortex; a journal devoted to the study of the nervous system and behavior*, 120, 457.