

# Resource Summary Report

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## SOCK

RRID:SCR\_002544

Type: Tool

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### Proper Citation

SOCK (RRID:SCR\_002544)

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### Resource Information

**URL:** <http://www.nitrc.org/projects/sock/>

**Proper Citation:** SOCK (RRID:SCR\_002544)

**Description:** A software toolbox that can automatically identify many of the artifact components that are often present in independent component analysis (ICA) of functional MRI (fMRI). The method: \* Does not require temporal information about the fMRI paradigm. \* Does not require the user to train the algorithm. \* Requires only the EPI images (additional acquisition of anatomical images is not required). \* Is able to identify a high proportion of artifact-related ICs without removing components that are likely to be of neuronal origin. \* Can be applied to resting-state fMRI. \* Is automated, requiring minimal or no human intervention.

**Abbreviations:** SOCK

**Synonyms:** Spatially Organized Component Klassifikator

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

**Defining Citation:** [PMID:23847511](#)

**Keywords:** matlab, magnetic resonance, independent component analysis, fmri, artifact, automated classification, automatic, independent component labeling, resting-state fmri

**Funding:** National Health and MRC of Australia project grant 368650;  
National Health and MRC of Australia project grant 318900;  
National Health and MRC of Australia project grant 628952;  
National Health and MRC of Australia practitioner fellowship 527800;  
Austin Hospital Medical Research Foundation ;  
State Government of Victoria Australia ;  
Operational Infrastructure Support Program

**Availability:** Free, Available for download, Freely available

**Resource Name:** SOCK

**Resource ID:** SCR\_002544

**Alternate IDs:** nlx\_155951

**License:** GNU General Public License

**Record Creation Time:** 20220129T080214+0000

**Record Last Update:** 20260821T193644+0000

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## Ratings and Alerts

No rating or validation information has been found for SOCK.

No alerts have been found for SOCK.

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## Data and Source Information

**Source:** [SciCrunch Registry](#)

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## Usage and Citation Metrics

We found 2 mentions in open access literature.

**Listed below are recent publications.** The full list is available at [NIF](#) .

Abdeen AH, et al. (2025) Parkinson-like wild-type superoxide dismutase 1 pathology induces nigral dopamine neuron degeneration in a novel murine model. Acta neuropathologica, 149(1), 22.

Bhaganagarapu K, et al. (2014) De-noising with a SOCK can improve the performance of event-related ICA. Frontiers in neuroscience, 8, 285.