

Resource Summary Report

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Pipeline System for Octave and Matlab

RRID:SCR_009637

Type: Tool

Proper Citation

Pipeline System for Octave and Matlab (RRID:SCR_009637)

Resource Information

URL: <http://code.google.com/p/psom/>

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Description: A lightweight software library to manage complex multi-stage data processing. A pipeline is a collection of jobs, i.e. Matlab or Octave codes with a well identified set of options that are using files for inputs and outputs. To use PSOM, the only requirement is to generate a description of a pipeline in the form of a simple Matlab / Octave structure. PSOM then automatically offers the following services: * Run jobs in parallel using multiple CPUs or within a distributed computing environment. * Generate log files and keep track of the pipeline execution. These logs are detailed enough to fully reproduce the analysis. * Handle job failures : successful completion of jobs is checked and failed jobs can be restarted. * Handle updates of the pipeline : change options or add jobs and let PSOM figure out what to reprocess !

Abbreviations: PSOM

Resource Type: software toolkit, workflow software, software application, data processing software, software resource, software library

Defining Citation: [PMID:22493575](#)

Keywords: reusable library, linux, macos, matlab, microsoft, posix/unix-like, windows, workflow, octave, pipeline

Availability: MIT License

Resource Name: Pipeline System for Octave and Matlab

Resource ID: SCR_009637

Alternate IDs: nlx_155924

Alternate URLs: <http://www.nitrc.org/projects/psom>

Record Creation Time: 20220129T080254+0000

Record Last Update: 20260801T190403+0000

Ratings and Alerts

No rating or validation information has been found for Pipeline System for Octave and Matlab.

No alerts have been found for Pipeline System for Octave and Matlab.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 3 mentions in open access literature.

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

Jung WH, et al. (2013) Exploring the brains of Baduk (Go) experts: gray matter morphometry, resting-state functional connectivity, and graph theoretical analysis. *Frontiers in human neuroscience*, 7, 633.

Bellec P, et al. (2012) The pipeline system for Octave and Matlab (PSOM): a lightweight scripting framework and execution engine for scientific workflows. *Frontiers in neuroinformatics*, 6, 7.

Poline JB, et al. (2012) Data sharing in neuroimaging research. *Frontiers in neuroinformatics*, 6, 9.