

Resource Summary Report

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GNU Octave

RRID:SCR_014398

Type: Tool

Proper Citation

GNU Octave (RRID:SCR_014398)

Resource Information

URL: <https://www.gnu.org/software/octave/>

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Description: A high-level language, primarily intended for numerical computations. It provides a convenient command line interface for solving linear and nonlinear problems numerically, and for performing other numerical experiments. It may also be used as a batch-oriented language. Octave has extensive tools for solving common numerical linear algebra problems, finding the roots of nonlinear equations, functions written in the Octave language, or by using dynamically loaded modules written in C, C++, Fortran, or other languages.

Synonyms: Octave

Resource Type: programming language, software resource

Defining Citation: [DOI:10.1016/j.jprocont.2012.04.006](https://doi.org/10.1016/j.jprocont.2012.04.006)

Keywords: command-line, free software, array programming, programming language, mathematics, reproducible research,

Funding:

Availability: Free

Resource Name: GNU Octave

Resource ID: SCR_014398

Alternate URLs: <https://directory.fsf.org/wiki/Octave>, <https://sources.debian.org/src/octave/>

License: GNU General Public License

Record Creation Time: 20220129T080320+0000

Record Last Update: 20250426T060400+0000

Ratings and Alerts

No rating or validation information has been found for GNU Octave.

No alerts have been found for GNU Octave.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 53 mentions in open access literature.

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

Spitschak A, et al. (2024) E2F1-induced autocrine IL-6 inflammatory loop mediates cancer-immune crosstalk that predicts T cell phenotype switching and therapeutic responsiveness. *Frontiers in immunology*, 15, 1470368.

Zhang Y, et al. (2024) Penetrating the ultra-tough yeast cell wall with finite element analysis model-aided design of microtools. *iScience*, 27(4), 109503.

Gomez MA, et al. (2024) How to construct liquid-crystal spectacles to control vision of real-world objects and environments. *Behavior research methods*, 56(2), 563.

Eastham K, et al. (2024) Photochemistry of Ru(II) Triazole Complexes with 6-Membered Chelate Ligands: Detection and Reactivity of Ligand-Loss Intermediates. *Inorganic chemistry*, 63(20), 9084.

de Malmazet D, et al. (2024) Retinal origin of orientation but not direction selective maps in the superior colliculus. *Current biology : CB*, 34(6), 1222.

Fringuello AR, et al. (2024) Rapid volume pulsations of the extracellular space accompany epileptiform activity in trauma-injured neocortex and depend on the sodium-bicarbonate cotransporter NBCe1. *Epilepsy research*, 201, 107337.

Gandolfo M, et al. (2024) Converging evidence that left extrastriate body area supports visual sensitivity to social interactions. *Current biology : CB*, 34(2), 343.

Yuvaraj M, et al. (2023) A systematic investigation of detectors for low signal-to-noise ratio EMG signals. *F1000Research*, 12, 429.

Eastham K, et al. (2022) Not All 3MC States Are the Same: The Role of 3MC_{cis} States in the Photochemical N₂N Ligand Release from [Ru(bpy)₂(N₂N)]²⁺ Complexes. *Inorganic chemistry*, 61(49), 19907.

Forster MK, et al. (2022) Discrimination of *Tilletia controversa* from the *T. caries*/*T. laevis* complex by MALDI-TOF MS analysis of teliospores. *Applied microbiology and biotechnology*, 106(3), 1257.

Kornilov A, et al. (2022) A Review of Watershed Implementations for Segmentation of Volumetric Images. *Journal of imaging*, 8(5).

Esfahani P, et al. (2022) Patterning ECM microstructure to investigate 3D cellular dynamics under multiplexed mechanochemical guidance. *F1000Research*, 11, 1071.

Yang L, et al. (2021) High-Throughput Methods in the Discovery and Study of Biomaterials and Materiobiology. *Chemical reviews*, 121(8), 4561.

Lukacs P, et al. (2021) An Advanced Automated Patch Clamp Protocol Design to Investigate Drug-Ion Channel Binding Dynamics. *Frontiers in pharmacology*, 12, 738260.

Dey T, et al. (2021) Identification and computational analysis of mutations in SARS-CoV-2. *Computers in biology and medicine*, 129, 104166.

Desjardins JA, et al. (2021) EEG Integrated Platform Lossless (EEG-IP-L) pre-processing pipeline for objective signal quality assessment incorporating data annotation and blind source separation. *Journal of neuroscience methods*, 347, 108961.

Kawada T, et al. (2021) Closed-Loop Identification of Baroreflex Properties in the Frequency Domain. *Frontiers in neuroscience*, 15, 694512.

Piasecki T, et al. (2021) On limits of contact tracing in epidemic control. *PloS one*, 16(8), e0256180.

Galan-Vasquez E, et al. (2021) A landscape for drug-target interactions based on network analysis. *PloS one*, 16(3), e0247018.

Jensen EL, et al. (2021) Structural Contour Map of the Iota Carbonic Anhydrase from the Diatom *Thalassiosira pseudonana* Using a Multiprong Approach. *International journal of molecular sciences*, 22(16).