Resource Summary Report

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Sumatra

RRID:SCR_001381
Type: Tool

Proper Citation

Sumatra (RRID:SCR_001381)

Resource Information

URL: http://neuralensemble.org/sumatra/

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Description: A software tool for managing and tracking projects based on numerical simulation or analysis to support reproducible research. It can be thought of as an automated electronic lab notebook for simulation/analysis projects. Sumatra consists of: a command-line interface, smt, for launching simulations/analyses with automatic recording of information about the context, annotating these records, linking to data files, etc.; a web interface with a built-in web-server, smtweb, for browsing and annotating simulation/analysis results; a LaTeX package and Sphinx extension for including Sumatra-tracked figures and links to provenance information in papers and other documents; and a Python API, on which smt and smtweb are based, that can be used in personalized scripts in place of using smt.

Synonyms: Sumatra: automated tracking of scientific computations

Resource Type: software application, software resource, electronic laboratory notebook

Keywords: simulation, analysis, python, numerical simulation, manage, track

Funding:

Availability: Public

Resource Name: Sumatra

Resource ID: SCR_001381

Alternate IDs: nlx_152549

License: CeCILL license, (GPL-equivalent), Considering changing to a less restrictive licence (e.g. BSD-like).

Record Creation Time: 20220129T080207+0000

Record Last Update: 20250412T054620+0000

Ratings and Alerts

No rating or validation information has been found for Sumatra.

No alerts have been found for Sumatra.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 26 mentions in open access literature.

Listed below are recent publications. The full list is available at FDI Lab - SciCrunch.org.

Zhang L, et al. (2024) Weakened western Indian Ocean dominance on Antarctic sea ice variability in a changing climate. Nature communications, 15(1), 3261.

Lawton R, et al. (2023) Exposure to the Indian Ocean Tsunami shapes the HPA-axis resulting in HPA "burnout" 14 years later. Proceedings of the National Academy of Sciences of the United States of America, 120(44), e2306497120.

Yeager SE, et al. (2022) Roast level and brew temperature significantly affect the color of brewed coffee. Journal of food science, 87(4), 1837.

Wirawan GBS, et al. (2021) Correlation of Demographics, Healthcare Availability, and COVID-19 Outcome: Indonesian Ecological Study. Frontiers in public health, 9, 605290.

Bank S, et al. (2021) A tree of leaves: Phylogeny and historical biogeography of the leaf insects (Phasmatodea: Phylliidae). Communications biology, 4(1), 932.

Khan S, et al. (2021) Stock delineation of striped snakehead, Channa striata using multivariate generalised linear models with otolith shape and chemistry data. Scientific reports, 11(1), 8158.

Schwallier R, et al. (2020) Ontogeny and Anatomy of the Dimorphic Pitchers of Nepenthes rafflesiana Jack. Plants (Basel, Switzerland), 9(11).

Camacho-Sanchez M, et al. (2020) Mitogenomes Reveal Multiple Colonization of Mountains by Rattus in Sundaland. The Journal of heredity, 111(4), 392.

Poor EE, et al. (2019) The road to deforestation: Edge effects in an endemic ecosystem in Sumatra, Indonesia. PloS one, 14(7), e0217540.

Beaulieu F, et al. (2019) Review of the mite genus Ololaelaps (Acari, Laelapidae) and redescription of O.formidabilis Berlese. ZooKeys, 853, 1.

Paterson RRM, et al. (2019) Ganoderma boninense Disease of Oil Palm to Significantly Reduce Production After 2050 in Sumatra if Projected Climate Change Occurs. Microorganisms, 7(1).

Jaouen G, et al. (2019) Fungi of French Guiana gathered in a taxonomic, environmental and molecular dataset. Scientific data, 6(1), 206.

Ma YF, et al. (2019) Population Genomics Analysis Revealed Origin and High-altitude Adaptation of Tibetan Pigs. Scientific reports, 9(1), 11463.

Manis PB, et al. (2018) A biophysical modelling platform of the cochlear nucleus and other auditory circuits: From channels to networks. Hearing research, 360, 76.

Roy J, et al. (2018) Differences in the fungal communities nursed by two genetic groups of the alpine cushion plant, Silene acaulis. Ecology and evolution, 8(23), 11568.

Haidir IA, et al. (2018) Assessing the spatiotemporal interactions of mesopredators in Sumatra's tropical rainforest. PloS one, 13(9), e0202876.

Teyssier A, et al. (2018) Dynamics of Gut Microbiota Diversity During the Early Development of an Avian Host: Evidence From a Cross-Foster Experiment. Frontiers in microbiology, 9, 1524.

Dresser GK, et al. (2017) Coffee inhibition of CYP3A4 in vitro was not translated to a grapefruit-like pharmacokinetic interaction clinically. Pharmacology research & perspectives, 5(5).

Jaramillo E, et al. (2017) Calibrating coseismic coastal land-level changes during the 2014 Iquique (Mw=8.2) earthquake (northern Chile) with leveling, GPS and intertidal biota. PloS one, 12(3), e0174348.

Adámková A, et al. (2017) Nutritional Potential of Selected Insect Species Reared on the Island of Sumatra. International journal of environmental research and public health, 14(5).