Resource Summary Report

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Cython C-Extensions for Python

RRID:SCR_008466
Type: Tool

Proper Citation

Cython C-Extensions for Python (RRID:SCR_008466)

Resource Information

URL: http://cython.org/

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Description: Cython is a language that makes writing C extensions for the Python language as easy as Python itself. Cython is based on the well-known Pyrex, but supports more cutting edge functionality and optimizations. The Cython language is very close to the Python language, but Cython additionally supports calling C functions and declaring C types on variables and class attributes. This allows the compiler to generate very efficient C code from Cython code. This makes Cython the ideal language for wrapping external C libraries, and for fast C modules that speed up the execution of Python code. Sponsor. Google and Enthought funded Dag Seljebotn to greatly improve Cython integration with NumPy. Kurt Smith and Danilo Freitas were funded through the Google Summer of Code program to work on improved Fortran and C support respectively.

Synonyms: Cython

Resource Type: software resource

Funding:

Resource Name: Cython C-Extensions for Python

Resource ID: SCR_008466

Alternate IDs: nif-0000-30401

Record Creation Time: 20220129T080247+0000

Record Last Update: 20250420T014424+0000

Ratings and Alerts

No rating or validation information has been found for Cython C-Extensions for Python.

No alerts have been found for Cython C-Extensions for Python.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 125 mentions in open access literature.

Listed below are recent publications. The full list is available at dkNET.

Pazzaglia A, et al. (2025) Balancing central control and sensory feedback produces adaptable and robust locomotor patterns in a spiking, neuromechanical model of the salamander spinal cord. PLoS computational biology, 21(1), e1012101.

Meisner J, et al. (2025) Leveraging haplotype information in heritability estimation and polygenic prediction. Nature communications, 16(1), 126.

Mirabello C, et al. (2024) DockQ v2: improved automatic quality measure for protein multimers, nucleic acids, and small molecules. Bioinformatics (Oxford, England), 40(10).

Guan D, et al. (2024) Low-cost quantum mechanical descriptors for data efficient skin sensitization QSAR models. Current research in toxicology, 7, 100183.

López-Cortegano E, et al. (2024) Variation in the Spectrum of New Mutations among Inbred Strains of Mice. Molecular biology and evolution, 41(8).

von Wegner F, et al. (2024) Complexity Measures for EEG Microstate Sequences: Concepts and Algorithms. Brain topography, 37(2), 296.

Yang H, et al. (2024) Kssdtree: an interactive Python package for phylogenetic analysis based on sketching technique. Bioinformatics (Oxford, England), 40(10).

Zhang Y, et al. (2024) ReHoGCNES-MDA: prediction of miRNA-disease associations using homogenous graph convolutional networks based on regular graph with random edge sampler. Briefings in bioinformatics, 25(2).

Ringbauer H, et al. (2024) Accurate detection of identity-by-descent segments in human ancient DNA. Nature genetics, 56(1), 143.

Fisco-Compte P, et al. (2024) Empirical modeling and prediction of neuronal dynamics. Biological cybernetics, 118(1-2), 83.

Angrick M, et al. (2024) Online speech synthesis using a chronically implanted brain-computer interface in an individual with ALS. Scientific reports, 14(1), 9617.

Chen X, et al. (2024) Fast and exact fixed-radius neighbor search based on sorting. PeerJ. Computer science, 10, e1929.

Ali YH, et al. (2024) BRAND: a platform for closed-loop experiments with deep network models. Journal of neural engineering, 21(2).

Yeh CW, et al. (2024) Altered assembly paths mitigate interference among paralogous complexes. Nature communications, 15(1), 7169.

Mate-Kole EM, et al. (2024) Mathematical complexities in radionuclide metabolic modelling: a review of ordinary differential equation kinetics solvers in biokinetic modelling. Journal of radiological protection : official journal of the Society for Radiological Protection, 44(2).

Sha CM, et al. (2024) Quantifying network behavior in the rat prefrontal cortex. Frontiers in computational neuroscience, 18, 1293279.

Gašparovi? B, et al. (2023) Comparing Direct Measurements and Three-Dimensional (3D) Scans for Evaluating Facial Soft Tissue. Sensors (Basel, Switzerland), 23(5).

Sha CM, et al. (2023) Quantifying network behavior in the rat prefrontal cortex: a reproducibility crisis. bioRxiv : the preprint server for biology.

Samarakoon H, et al. (2023) Accelerated nanopore basecalling with SLOW5 data format. Bioinformatics (Oxford, England), 39(6).

Greenbaum S, et al. (2023) A spatially resolved timeline of the human maternal-fetal interface. Nature, 619(7970), 595.