

Resource Summary Report

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Neural Systems and Graphics Computing Laboratory: Micro3D Software

RRID:SCR_001811

Type: Tool

Proper Citation

Neural Systems and Graphics Computing Laboratory: Micro3D Software
(RRID:SCR_001811)

Resource Information

URL: <http://www.nesys.uio.no/Micro3D/>

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Description: The Micro3D 2004 is a software for 3-D reconstruction, visualization, and analysis of neuronal populations and brain regions. Micro3D generates geometric models from line and point coded data sets, representing labeled objects such as cell bodies or axonal plexuses, and boundaries of brain regions in serial sections. Data are typically imported from image-combining computerized microscopy systems, such as Neurolucida (MicroBrightField, Colchester, VT). The models may be rotated and zoomed in real-time. Surfaces are re-synthesized on the basis of stacks of contour lines. Clipping is used for defining section-independent subdivisions of the model. Flattening of sheets of points in curved layers (e.g., neurons in a cortical lamina) facilitates inspection of complicated distribution patterns. Micro3D computes color-coded density maps, and allows production of mpeg videos. Micro3D 2004 runs on LINUX PCs equipped with Open Inventor. It performs operations similar to the Silicon Graphics based version that has been used in more than 25 investigations and in various species, ranging from insects to monkeys, at the LM- and EM-level. Sponsors: Micro 3D was developed with support from The Research Council of Norway and The Oslo Research Park / FORNY.

Synonyms: NeSys Micro3D

Resource Type: software application, data analysis software, software resource, data processing software, data visualization software

Defining Citation: [PMID:16596747](#)

Keywords: 3-d reconstruction, analysis, axonal plexus, brain, cell body, computerized, contour line, density map, geometric, insect, microscopy, model, monkey, neuronal,

object, population, region, serial section, software, specie, visualization, image

Availability: Free, Available for download, Freely available

Resource Name: Neural Systems and Graphics Computing Laboratory: Micro3D Software

Resource ID: SCR_001811

Alternate IDs: nif-0000-10375

Record Creation Time: 20220129T080209+0000

Record Last Update: 20260729T044016+0000

Ratings and Alerts

No rating or validation information has been found for Neural Systems and Graphics Computing Laboratory: Micro3D Software.

No alerts have been found for Neural Systems and Graphics Computing Laboratory: Micro3D Software.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.