Resource Summary Report

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ObjectFinder

RRID:SCR_023319
Type: Tool

Proper Citation

ObjectFinder (RRID:SCR_023319)

Resource Information

URL: https://github.com/lucadellasantina/ObjectFinder

Proper Citation: ObjectFinder (RRID:SCR_023319)

Description: Software image analysis package for 3D object recognition in volumetric images developed for neuroscience research purposes. MATLAB application to recognize small structures in large volumetric image, plot their statistics and perform quantitative analysis such as nearest neighbor and colocalization analysis. Used to detect fluorescently labeled synapses in neuronal image stacks acquired using confocal or super resolution microscopes.

Resource Type: data or information resource, image analysis software, data visualization software, software resource, 2d spatial image, image, 3d spatial image, software application, data processing software, 3d visualization software

Keywords: 3D object recognition, volumetric images, neuroscience, recognize small structures in large volumetric images, detect fluorescently labeled synapses, neuronal image stacks,

Funding:

Resource Name: ObjectFinder

Resource ID: SCR_023319

Alternate URLs: https://lucadellasantina.github.io/ObjectFinder/

License: GNU GPL v3

Record Creation Time: 20230307T050214+0000

Record Last Update: 20250521T061921+0000

Ratings and Alerts

No rating or validation information has been found for ObjectFinder.

No alerts have been found for ObjectFinder.

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 FDI Lab - SciCrunch.org.

Soliño M, et al. (2023) Large-scale survey of excitatory synapses reveals sublamina-specific and asymmetric synapse disassembly in a neurodegenerative circuit. iScience, 26(8), 107262.

Harris SC, et al. (2023) Asymmetric retinal direction tuning predicts optokinetic eye movements across stimulus conditions. eLife, 12.

Maddox JW, et al. (2020) A dual role for Cav1.4 Ca2+ channels in the molecular and structural organization of the rod photoreceptor synapse. eLife, 9.