

Resource Summary Report

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PS-Plant Framework

RRID:SCR_017032

Type: Tool

Proper Citation

PS-Plant Framework (RRID:SCR_017032)

Resource Information

URL: <https://github.com/g2-bernotas/PS-Plant-Framework>

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Description: Software tool as end to end software for data acquisition, processing, and result extraction of Arabidopsis thaliana growth. Framework uses photometric stereo based 3D imaging system with computer vision and deep learning for tracking and quantifying both plant growth and movement parameters.

Abbreviations: PS-Plant

Resource Type: software application, workflow software, data analysis software, 3d time-series analysis software, data or information resource, code testing framework, software resource, data processing software, time-series analysis software, data visualization software, 2d spatial image, software development tool, segmentation software, 3d visualization software, image, image analysis software

Keywords: photometric, 3D, imaging, tracking, plant, growth, arabidopsis, thaliana, leaf, angle, segmentation, machine, learning, near-infrared, (NIR), LED, photomorphogenesis, thermomorphogenesis, bio.tools

Funding: BBSRC BB/N02334X/1;
BBSRC BB/M025551/1;
BBSRC BB/N005147/1

Availability: Free, Available for download, Freely available

Resource Name: PS-Plant Framework

Resource ID: SCR_017032

Alternate IDs: biotools:PS-Plant

Alternate URLs: <https://bio.tools/PS-Plant>

License: GNU GPL v3

Record Creation Time: 20220129T080333+0000

Record Last Update: 20260729T044430+0000

Ratings and Alerts

No rating or validation information has been found for PS-Plant Framework.

No alerts have been found for PS-Plant Framework.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 1 mentions in open access literature.

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

Bernotas G, et al. (2019) A photometric stereo-based 3D imaging system using computer vision and deep learning for tracking plant growth. GigaScience, 8(5).