

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: 2d spatial image, 3d time-series analysis software, 3d visualization software, code testing framework, data analysis software, data or information resource, data processing software, data visualization software, image, image analysis software, segmentation software, software application, software development tool, software resource, time-series analysis software, workflow 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/M025551/1;
BBSRC BB/N005147/1;
BBSRC BB/N02334X/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

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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 [Kravitz](#) .

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).