



8th Workshop in Computer Vision in Plant Phenotyping and Agriculture

as part of ICCV 2023

Paper submission deadline: July 21, 2023

Paris, France. October 02, 2023

Workshop information

<https://cvppa2023.github.io>

Conference information

<https://iccv2023.thecvf.com>

Workshop organizers

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Further dates

Author notification

August 11, 2023

Camera-ready submission

August 21, 2023

Challenge deadline

August 31, 2023

Aims and scope

CVPPA, held in conjunction with ICCV 2023, aims to advance computer vision for plant and crop applications. Plant phenotyping, which involves studying the effects of genetic and environmental factors on plant structure and function, is crucial for sustainable agriculture. Traditionally, phenotypic traits were manually collected, but now sensor-based methods are preferred for non-invasive phenotyping. However, the analysis of these observations requires automated and accurate computer vision approaches to overcome bottlenecks that hinder our understanding of plant biology and limit our ability to ensure a sustainable food supply for a growing population in an unpredictable environment.

Researchers are welcome to submit papers in the following areas or related topics:

- advances in segmentation, tracking, detection, reconstruction, and identification methods that address unsolved plant phenotyping and agricultural scenarios;
- open source implementations, comparison and discussion of existing methods and annotation tools;
- image data sets defining plant phenotyping or agricultural tasks, complete with annotations if appropriate, accompanied with benchmark methods if possible, and suitable evaluation methods; and
- challenge contributions:
 - Hierarchical Panoptic Segmentation of Crops and Weeds Challenge 2023,
 - DND-Diko-WWWR: Classification of Nutrient Deficiency Challenge 2023.

Submission guidelines

We encourage submission of full-length peer-reviewed papers, and short peer-reviewed abstracts. Only papers will appear in the ICCV 2023 proceedings. The best papers will be given opportunities for oral presentation. Further information about the workshop and the challenges is available at the workshop website.