



# BMVC 2015 Workshop on Computer Vision Problems in Plant Phenotyping (CVPPP 2015) September 10, 2015, Swansea, UK Call For Papers

The goal of this second workshop, following on from the first successful CVPPP at ECCV 2014, is to continue to showcase the challenges raised by and extend the state of the art in computer vision for plant phenotyping. Plant phenotyping is the identification of effects on plant structure and function (the phenotype) resulting from genotypic differences (i.e., differences in the genetic code) and the environmental conditions a plant has been exposed to. Knowledge of plant phenotypes is a key ingredient of the knowledge-based bioeconomy, which not only literally helps to feed the world, but is also essential for feed, fibre and fuel production. We want to identify key but unsolved problems, expose the current state-of-the-art, and broaden the field and the community.

**Specific topics of interest include, but are not limited to, the following:**

- **advances** in segmentation, tracking, detection, reconstruction and identification methods that address unsolved plant phenotyping scenarios
- open source implementation, comparison and discussion of existing **methods and annotation tools**
- image **data sets** defining plant phenotyping challenges, complete with annotations if appropriate, accompanied with benchmark methods if possible, and suitable evaluation methods

Associated with the workshop are **two computer vision challenges**: a) the 2<sup>nd</sup> "Plant Leaf Segmentation Challenge" and b) the Leaf Counting Challenge: <http://www.plant-phenotyping.org/CVPPP2015-challenge>  
We are looking forward to inspiring solutions for automated plant phenotyping applications!

<b>Submission due:</b>	June 24 (Wednesday)
<b>Notification of acceptance:</b>	July 24 (Friday)
<b>Camera-ready:</b>	Aug 3 (Monday)
<b>Workshop date:</b>	September 10

Further information is available at: <http://www.plant-phenotyping.org/CVPPP2015>

## Invited Talk:

Tim Cootes: Image Segmentation using Statistical Shape and Appearance Models

## Workshop Organizers:

- Sotirios A. Tsafaris (IMT Lucca, Italy and Northwestern University, USA), [S.Tsafaris@imtlucca.it](mailto:S.Tsafaris@imtlucca.it)
- Hanno Scharf (Forschungszentrum Jülich, Germany), [H.Scharf@fz-juelich.de](mailto:H.Scharf@fz-juelich.de)
- Tony Pridmore (University of Nottingham, UK), [Tony.Pridmore@nottingham.ac.uk](mailto:Tony.Pridmore@nottingham.ac.uk)

## Program Committee:

Andrew French, University of Nottingham, UK  
Arijit Biswas, Xerox Research Center India  
Christian Klukas, LemnaTec, Germany  
Tim Brown, Australian National University, Australia  
Babette Dellen, Hochschule Koblenz, Germany  
Guillermo Desouza, University of Missouri-Columbia  
Jurgen Fripp, CSIRO, Australia  
Pablo M. Granitto, CIFASIS, Argentina  
Markus Hoferlin, Robert Bosch Start-up, Germany  
Gustavo Pereyra Irujo, CONICET, Argentina  
Toni Kajic, University of Missouri, USA  
Gert Kootstra, Wageningen, The Netherlands

Xiaoming Liu, University of Missouri, USA  
Guillaume Lobet, Université de Liège, Belgium  
B. S. Manjunath, UCSB, Santa Barbara, USA  
Vasileios Mezaris, CERTH, Thessaloniki, Greece  
Massimo Minervini, IMT Lucca, Italy  
Marie Neal, Aberystwyth University, UK  
Gerrit Polder, Wageningen, The Netherlands  
David Rousseau, Univ. of Lyon, France  
Kyle Simek, University of Arizona, USA  
Concetto Spampinato, University of Catania, Italy  
Junsong Yuan, NTU, Singapore  
Rick van de Zedde, Wageningen, The Netherlands