



**CRIS LUENGO**

*From Sweden to France*



Project: **Image analysis, computer vision and machine learning**

Research topic: **Informatics**

Swedish Institution: **Uppsala University / Swedish University of Agriculture SLU**

French Institution: **University of Southern Brittany**

Dates of mobility: **16/06/2014 to 26/06/2014**

Program: **SFVE-A (ex-FRÖ)**



## PRESENTATION

[Cris Luengo](#) is Data Scientist at [Deepcell Inc.](#) Previously, he was the Director of Image Analysis at [Flagship Biosciences Inc.](#) During the SFVE-A mobility, he was Assc. Prof. at the [Centre for Image Analysis](#) under the [Department of Information Technology](#) at [Uppsala University](#) and the Swedish University of Agricultural Sciences ([SLU](#)). He obtained his PhD in Image Analysis from [Delft University of Technology](#) in 2003. He is interested in Image Processing and Quantitative Image Analysis.

## ACTIVITIES IN FRANCE

Luengo travelled to the [OBELIX](#) team (part of the French Laboratory for Research and Innovation in Digital Science and Technology [IRISA](#) and the [University of Southern Brittany](#)) in at the [Vannes Institute of Technology](#), which works on the processing of complex images for environmental purposes. He was hosted by the team leader [Prof. Sébastien Lefèvre](#). They discussed the applications of image analysis, computer vision and machine learning for remote sensing. Luengo was interested in learning how his techniques could be used for satellite images, and exchanged views with [Luc Courtrai](#) on this matter, who is working on the extraction of roads in satellite images using path openings. They also tabled the possibility to use a technique called 'differential morphological profile'. Luengo also discussed extensively with [Prof. Jacques Froment](#) from the [Faculty of Sciences and Engineering Sciences](#).

He also held a seminar entitled "Image-Based Measurement with Mathematical Morphology". Many collaborations were envisaged, i.a. on measuring the width of rivers consistently and automatically, on Erasmus+ exchanges between the universities and on future bilateral visiting professorships.