ACTIVE
aachen center for biomedical image analysis, visualization, and exploration

4th Workshop of the Aachen CenTer for biomedical Image analysis, Visualization and Exploration

ACTIVE provides algorithmic and software support for the analysis and exploration of complex image data in the natural and life sciences. The center develops methods for automated processing of image and video data, pattern recognition, tissue classification, registration, object segmentation and tracking, as well as for data analysis and visualization.

The aim of this year's workshop is to present a selection of ongoing and completed projects at ACTIVE. In addition, it will serve as a platform for experts in the fields of biology, medicine and computer science/engineering to discuss potential future collaborations.

There is no registration fee. However, we kindly ask you to write us an email if you wish to attend.

contact: active@lfb.rwth-aachen.de

website: http://www.lfb.rwth-aachen.de/research/biological/active/

Friday, Dec. 13th, 2019, 15.00-17:00+, ICT Cubes, Kopernikusstraße 16, Aachen, room 002

Schedule:

-- 15:00: Reception with coffee & cookies --

15.15-15:35: Dr. Matthias Daub, Julius-Kühn-Institut, Federal Research Centre for Cultivated Plants:

> *"Phenotyping plant-parasitic nematodes: A novel approach to cope with morphological diversity and to search for biological characteristics"*

15.35-15:50: Long Chen, ACTIVE & Imaging and Computer Vision, RWTH Aachen University:

> *"Detecting nematodes in microscopic images of soil samples"*

15.50-16:10: Dr. Martin Strauch, ACTIVE & Imaging and Computer Vision, RWTH Aachen University:

> *"Would a rose smell as sweet in any other brain? On predicting neural correlates of odors"*

16:10-16:30: Dr. Daniel Moreno-Andrés, Molecular Cell Biology, University Hospital Aachen:

> *"Analyzing mitotic progression through live-cell imaging"*

16:30-16:50: Dennis Eschweiler, ACTIVE & Imaging and Computer Vision, RWTH Aachen University:

> "Morphological analysis of dense cell populations in 3D confocal microscopy data"

-- 16.50: Open discussion & drinks ***(you may bring your image data to look at!)*** *--*