Advanced Images Processing and Analysis

Objective

The objective of the course is to get deeper into some specific image analysis topics and to get insight into customized image analysis automation using ImageJ macros.

Description

This workshop will offer specific image processing and analysis topics. The course content can be partially shaped by the interest of the majority of the participants group and will be defined shortly before the workshop date based on an online questionnaire.

The following lists an excerpt of potential topics:

- Intensity based analysis and Statistical Co-localization
- 3D/4D tracking of particles/cells (including stack registration)
- 3D Reconstruction
- 3D Measurements
- 2D/3D semi-automatic tracing (of networks like neurons or vessels)
- Diverse True-Color image analysis techniques (e.g. histological sections)
- Detailed introduction into the usage of the ImageJ macro language

Methodology

The workshop makes use of the professional software Fiji, which is freely accessible. This software will be provided.

Conditions

Having participated in the basic course is mandatory, we will build up on previous knowledge.

Organizational Information

<table>
<thead>
<tr>
<th>Language</th>
<th>English</th>
</tr>
</thead>
<tbody>
<tr>
<td>Target group</td>
<td>Doctoral Candidates at all stages and Postdocs from Medical and Life Sciences</td>
</tr>
<tr>
<td>Date</td>
<td>Monday-Tuesday, 27-28 November 2017; 9:00-17:00</td>
</tr>
<tr>
<td>Registration</td>
<td><a href="#">For registration click here</a></td>
</tr>
</tbody>
</table>