ISOS Course:
Scientific Image Analysis with ImageJ
06 – 09 March 2012 | 09:00 – 12:00

Dr. Marcel Austenfeld, eLK Medien, CAU Kiel

In disciplines as diverse as Biology, Geography, Medicine and Astronomy image analysis plays a fundamental part in accessing spatial and spectral information from two- or multi-dimensional data. Often these disciplines work on different scales (e.g. Microscopy and Astronomy) but employ the same algorithms for a profound analysis.

In this seminar some popular image analysis methods are presented. In addition to the automatic and non-automatic measurement of geometrical features and color space of the images, the analysis of 3-dimensional data (stacks) and time based image data (videos) will be trained.

For the practical part the free and open source image analysis software ImageJ will be used. ImageJ is a platform-independent image analysis software written in Java which offers many specialized image algorithms and can be extended with a huge amount of free plug-ins. In addition, an easy-to-use macro language is available to create self-written image methods or to record and execute image analysis tasks.

The goal of this seminar is to enable participants to use a range of image analysis methods and in addition have an Image analysis tool at hand which is able to perform complex tasks.

Venue: terminal room, Leibnizstraße 1 (R205)

Please register online at
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