Contribution ID : **50** Type : **Lightning Talk**

Camera calibration plugin for areaDetector

Thursday, 15 November 2018 16:40 (5)

Sample visualization and alignment for ESS experimental setups requires knowledge of the pixel size of the imaged sample. Two cameras placed at 90 degrees to each other are used to obtain three dimensional position information of the sample and sample features. A calibration target with features of known dimensions is placed at the sample position and images captured on the two cameras. Using image processing routines from the OpenCV library in an areaDetector plugin, the features are identified in the image, the image corrected for any rotation of the calibration target, and the pixel location of the feature corners calculated.

Primary author(s) : LEWIS, Wayne (OspreyDCS)

Presenter(s) : LEWIS, Wayne (OspreyDCS)

Session Classification : Lightning Talks

Track Classification : Experiment Control