



Contribution ID: 40

Type: Poster

Image Annotation at European XFEL

Tuesday, September 20, 2022 5:50 PM (2 minutes)

Cameras and imaging tools in diagnostic systems are valuable sources of information at photon sources, and instrument scientists rely on their information to perform their experiments.

Defining the reference position of the beam during alignment of the instrument setup, monitoring and tuning the beam stability or aligning the position of the target with respect to the beam are examples of tasks performed with imaging cameras.

However, at the European XFEL, existing tools do not allow to extract the information in a computer-readable form and thus make tracking the events observed during the different phases of the experiment or, even across experiments, difficult. As part of the AMORE (Automated Metadata annotation Reconstruction Environment) project, the European XFEL Control group has developed a set of tools that allows instrument scientists to extract and integrate metadata from/to existing imaging tools integrated into the control system, as well as to process and store them. This contribution summarizes the tools under development and their applications.

Email address of presenting author

ana.garcia-tabares@xfel.eu

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Primary author: GARCÍA-TABARÉS, Ana (European XFEL)

Co-authors: GÖRIES, Dennis (European XFEL); KARPICS, Ivars (European XFEL); Dr GELISIO, Luca (European XFEL); HAUF, Steffen (European XFEL GmbH)

Presenter: GARCÍA-TABARÉS, Ana (European XFEL)

Track Classification: NOBUGS 2022