



Contribution ID: 48

Type: Poster

Synchronization of commercial camera data at the European XFEL

Tuesday, September 20, 2022 5:42 PM (2 minutes)

Commercial cameras are extensively used at the European XFEL, by the scientific instruments and for beam diagnostics. In order to correlate the data coming from different sources, the train ID is used as a primary key; the train ID counts the number of X-Ray trains supplied since the beginning of the facility operation, is monotonically increasing with a period of 100 ms, and is uniquely defined for the entire facility. Unfortunately, the train ID information coming from the XFEL timing system can generally not be injected into the timing information provided by the commercial cameras in use at the facility.

In this contribution, a reliable and reproducible solution to tag images received from Ethernet cameras with the correct train ID is described.

Email address of presenting author

andrea.parenti@xfel.eu

I agree to recordings of my presentation being made at NOBUGS 2022

Primary author: PARENTI, Andrea (European XFEL GmbH)

Co-authors: GIOVANETTI, Gabriele (European XFEL); Dr FABBRI, Riccardo (European XFEL GmbH); HAUF, Steffen (European XFEL GmbH); BONDAR, Valerii (European XFEL)

Presenter: PARENTI, Andrea (European XFEL GmbH)

Track Classification: NOBUGS 2022