

Session Program

27-29 Oct 2025



Artificial Intelligence for the Electron Ion Collider (AI4EIC) 2025

AI/ML for Calibration, Monitoring, and Experimental Control with Data Streams

Monday 27 October

14:30

AI/ML for Calibration, Monitoring, and Experimental Control with Data Streams

Session

14:30–14:55

Tree-distilled autoencoders on FPGA for anomaly detection and data compression

Speakers

Tae Min Hong, Tae Min Hong

14:55–15:20

Compression by Importance and More

Speaker

Yi Huang

15:20–15:45

AI-Enabled Data Quality Monitoring with Hydra

Speaker

Thomas Britton

15:45–16:00

Coffee break

16:00–16:25

SMOCS - JLab's Streaming Monitoring Optimization Control System

Speaker

Armen Kasparian

16:25–16:50

Real-time AI-based dead hot map in the ePIC detector: a self-adaptive alternative to traditional big data calibration pipelines

Speaker

Balazs Ujvari

16:50–17:15

Optimal Control of Polarized Sources and Targets

Speaker

Patrick Moran

17:15–17:30

Discussion

17:30