Session Program

Nov 4 – 8, 2019

24th International Conference on Computing in High Energy & Nuclear Physics

Track X – Crossover sessions

Adelaide Convention Centre
Adelaide, Australia

Tue, November 5

2:00 PM

Track X – Crossover sessions: Optimisation and acceleration

Session | **Location:** Adelaide Convention Centre, Riverbank R4 | **Conveners:**
Teng Jian Khoo, Yu Nakahama Higuchi

14:00 – 14:15

FPGA-accelerated machine learning inference as a service for particle physics computing

Speaker
Kevin Pedro

14:15 – 14:30

GPU-based reconstruction and data compression at ALICE during LHC Run 3

Speaker
David Rohr

14:30 – 14:45

Reconstruction of track candidates at the LHC crossing rate using FPGAs

Speaker
Giulia Tuci

14:45 – 15:00

Quantum annealing algorithms for track pattern recognition

Speaker
Masahiko Saito

15:00 – 15:15

The Tracking Machine Learning Challenge

Speaker
Jean-Roch Vlimant

15:15 – 15:30

Evolving Geant4 to cope with the new HEP computing challenges

Speaker
Andrei Gheata

3:30 PM

4:30 PM

Track X – Crossover sessions: Collaborative and common software

Session | **Location:** Adelaide Convention Centre, Riverbank R4 | **Conveners:**
Steven Schramm, Paul James Laycock

16:30 – 16:45

Running synchronous detector reconstruction in ALICE using declarative workflows

Speaker
Matthias Richter

16:45 – 17:00

Let's get our hands dirty: a comprehensive evaluation of DAQDB, key-value store for petascale hot storage.

Speaker
Mr Grzegorz Jereczek

17:00 – 17:15

Big Data solutions for the online processing of trigger-less detectors data

Speaker
Marco Zanetti

17:15 – 17:30

Implementation of the ATLAS trigger within the multi-threaded AthenaMT framework

Speaker
Teng Jian Khoo

17:30 – 17:45

The ACTS project: track reconstruction software for HL-LHC and beyond

Speaker
Paul Gessinger-Befurt

17:45 – 18:00 **Towards a Turnkey Software Stack for HEP Experiments**

Speaker
Andre Sailer

6:00 PM