Session Program

14 October 2024

A3D3 All-hands meeting

Poster Session / Reception

Convergence Center @ Purdue University, Innovation Room
101 Foundry Dr, West Lafayette, IN 47906

Sunday 13 October

17:15

Poster Session / Reception

Session | **Location:** Marriot Hall @ Purdue University, Main hall, 900 Mitch Daniels Blvd., West Lafayette, IN 47907

17:15–17:20

Decoding multi-limb trajectories of naturalistic running from calcium imaging using deep learning

Speaker
Seungbin Park

17:20–17:25

Noise or Astrophysical: Developing Machine Learning Classifiers for Characterizing Gravitational Wave Events

Speaker
Seiya Tsukamoto

17:25–17:30

Detecting the Invisible: Electron Hit Localization in High-Resolution TEM Images Using Deep Learning on FPGAs

Speaker
Derrick Appiah Osei

17:30–17:35

Estimating the Hubble Constant by combining posteriors from Multi-Messenger Kilonovae Observations

Speaker
Megan Averill

17:35–17:40

Real-time compression of CMS detector data with machine learning

Speaker
Mariel Peczak

17:40–17:45

Multi-messenger Astronomy Observations Via Alert Stream Filtering

Speaker
Kira Nolan

17:45–17:50

Improving Sensitivity to Neutron Star Gravitational Wave Events using the Qp Transform

Speaker
Emma de Bruin

17:50–17:55

Model Logging for FPGA Deployment

Speaker
Julian Goddy

17:55–18:00

Accelerating Subglacial Bed Topography Prediction in Greenland: A Performance Evaluation of Spark-Optimized Machine Learning Models

Speaker
Mostafa Cham

18:00–18:05 **Early-time Classification of Astronomical Transients**

Speaker
Alexandra Junell Brown

18:05–18:10 **Finding Binary Black Hole Mergers**

Speaker
Steven Henderson

18:10–18:15
Online track reconstruction with graph neural networks on FPGAs for the ATLAS experiment

Speaker
Jared Burleson

18:15–18:28
Smart Pixels: A Machine Learning Approach Towards Data Reduction in Next-Generation Particle Detectors

Speaker
David Jiang

18:28–18:41 **Foundation Model for Real-Time Model Selection and Fitting**

Speaker
Cymberly Tsai

19:42