Session Program

7 October 2022

A3D3 Annual meeting

Lightening talks

Southern Methodist University

Thursday 6 October

12:35

Lightening talks
Session | **Location:** Southern Methodist University | **Convener:** Maria Dadarlat

12:35–12:38
Electromagnetic Counterpart Identification of Gravitational-wave candidates using deep-learning

Speaker
Dr Deep Chatterjee

12:38–12:41
Deep Learning Development and Deployment for Low-Latency Gravitational-Wave Astronomy

Speaker
Will Benoit

12:41–12:44   Interaction Network Autoencoder in the Level-1 Trigger

Speaker
Sukanya Krishna

12:44–12:47
Neural encoding of proprioception of the limbs in the mouse primary somatosensory and motor cortices

Speaker
Megan Hope Lipton

12:47–12:50   Semi-supervised Graph Neural Networks for Pileup Noise Removal

Speaker
Shikun Liu

12:50–12:53   Sleep Spindle as a Driver of Low Latency, Low Power ML in HLS4ML

Speaker
Xiaohan Liu

12:53–12:56
Contrastive learning for correction of data/monte-carlo disagreements

Speaker
Simon Rothman

12:56–12:59   Deep Learning for the High Granularity Calorimeter L1Trigger

Speaker
Rohan Shenoy

12:59–13:02
Interaction Network Autoencoders vs Deep Neural Network Autoencoders for Anomaly Detection at the CMS Level One Trigger

Speaker
Andrew Skivington

13:02–13:05

ScaleFlow: Scalable High-Level Synthesis for Large Dataflow Applications

Speaker

Hanchen Ye

13:05–13:08

PyLog: An Algorithm-Centric Python-Based FPGA Programming and Synthesis Flow

Speaker

Jialiang Zhang

13:08–13:11   **Transformer in HLS4ML**

Speakers

Zhixing "Ethan" Jiang, Elham E Khoda

13:11