

Reconstruction, Trigger, and Machine Learning for the HL-LHC

Report of Contributions

Contribution ID: 1

Type: **not specified**

Co processor acceleration

Thursday 26 April 2018 10:40 (40 minutes)

Presenter: FAERBER, Christian (CERN)

Session Classification: Accelerated Processing

Contribution ID: 2

Type: **not specified**

HLS4ML

Thursday 26 April 2018 11:20 (40 minutes)

Presenter: KREIS, Ben (Fermi National Accelerator Lab. (US))

Session Classification: Accelerated Processing

Contribution ID: 3

Type: **not specified**

Muon Trigger

Thursday 26 April 2018 10:10 (30 minutes)

Presenters: MARTINEZ OUTSCHOORN, Verena Ingrid (University of Massachusetts (US)); MARTINEZ OUTSCHOORN, Verena Ingrid (Fermi National Accelerator Lab. (US))

Session Classification: Accelerated Processing

Contribution ID: 4

Type: **not specified**

Network Pruning

Friday 27 April 2018 14:00 (30 minutes)

Presenter: DUARTE, Javier Mauricio (Fermi National Accelerator Lab. (US))

Session Classification: Machine Learning in Data Compression

Contribution ID: 5

Type: **not specified**

CMS HGCAL reconstruction

Friday 27 April 2018 11:00 (30 minutes)

Presenter: MARINI, Andrea Carlo (Massachusetts Inst. of Technology (US))

Session Classification: ML in Clustering

Contribution ID: 6

Type: **not specified**

Introduction

Thursday 26 April 2018 14:00 (30 minutes)

Presenter: WILLIAMS, J Michael (Massachusetts Inst. of Technology (US))

Session Classification: Machine Learning in Tracking

Contribution ID: 7

Type: **not specified**

Overview of ML tracking approaches

Thursday 26 April 2018 14:30 (45 minutes)

Presenter: Dr VLIMANT, Jean-Roch (California Institute of Technology (US))

Session Classification: Machine Learning in Tracking

Contribution ID: 8

Type: **not specified**

Compression with Auto-encoders

Friday 27 April 2018 14:30 (30 minutes)

Presenter: Mr WEISSER, Constantin Niko (Massachusetts Inst. of Technology (US))

Session Classification: Machine Learning in Data Compression

Contribution ID: 9

Type: **not specified**

Informational basis of Energy Flow

Friday 27 April 2018 15:00 (30 minutes)

Presenter: THALER, Jesse (MIT)

Session Classification: Machine Learning in Data Compression

Contribution ID: **10**

Type: **not specified**

ML in Tracking

Thursday 26 April 2018 15:15 (30 minutes)

Presenter: FARRELL, Steven (Lawrence Berkeley National Lab (US))

Session Classification: Machine Learning in Tracking

Contribution ID: **11**

Type: **not specified**

ML in Jets

Friday 27 April 2018 10:30 (30 minutes)

Presenter: KAGAN, Michael Aaron (SLAC National Accelerator Laboratory (US))

Session Classification: ML in Clustering

Contribution ID: 12

Type: **not specified**

CMS trigger upgrade

Friday 27 April 2018 11:30 (30 minutes)

Presenter: WU, Zhenbin (University of Illinois at Chicago (US))

Session Classification: ML in Clustering

Contribution ID: 13

Type: **not specified**

ML in Neutrinos

Friday 27 April 2018 10:00 (30 minutes)

Presenter: RADOVIC, Alexander (College of William and Mary)

Session Classification: ML in Clustering

Contribution ID: 14

Type: **not specified**

Optical Artificial Neural Networks

Thursday 26 April 2018 12:00 (30 minutes)

Presenter: SHEN, Yichen (MIT)

Session Classification: Accelerated Processing

Contribution ID: 15

Type: **not specified**

Song Han

Thursday 26 April 2018 17:00 (10 minutes)

Session Classification: CS Lightning Talks and Discussion

Contribution ID: **16**

Type: **not specified**

Welcome/Overview

Thursday 26 April 2018 10:00 (10 minutes)

Presenter: WILLIAMS, J Michael (Massachusetts Inst. of Technology (US))

Session Classification: Accelerated Processing

Contribution ID: 17

Type: **not specified**

Broderick

Thursday 26 April 2018 17:10 (20 minutes)

Session Classification: CS Lightning Talks and Discussion

Contribution ID: **18**

Type: **not specified**

Andrey

Thursday 26 April 2018 17:30 (20 minutes)

Session Classification: CS Lightning Talks and Discussion

Contribution ID: **19**

Type: **not specified**

Gowtham

Thursday 26 April 2018 17:50 (20 minutes)

Session Classification: CS Lightning Talks and Discussion

Contribution ID: 20

Type: **not specified**

Parting Thoughts

Friday 27 April 2018 15:30 (30 minutes)

Presenter: WILLIAMS, J Michael (Massachusetts Inst. of Technology (US))

Session Classification: Machine Learning in Data Compression