ACAT 2017

Monday, August 21, 2017

Track 2: Data Analysis - Algorithms and Tools: Parallel Session - 107 (2:00 PM - 4:00 PM)

-Conveners: Sergei Gleyzer

time	[id] title	presenter
2:00 PM	[30] Background Suppression with the Belle II Neural Network Trigger	SKAMBRAKS, Sebastian
2:20 PM	[101] The ATLAS Electron and Photon Trigger	JONES, Samuel David
2:40 PM	[86] BDTs in the Level 1 Muon Endcap Trigger at CMS	CARNES, Andrew Mathew
3:00 PM	[46] Tomographic Reconstruction of LArTPC Events using Wire-cell	Dr ZHANG, Chao
3:20 PM	[26] A modern approach to HEP visualization - ATLASrift	VUKOTIC, Ilija
3:40 PM	[33] Muon reconstruction of JUNO experiment with convolutional neural networks	Dr WANG, Lu

Track 2: Data Analysis - Algorithms and Tools: Parallel Session - 107 (4:30 PM - 6:30 PM)

-Conveners: Toby Burnett

time	[id] title	presenter
4:30 PM	[16] Generative Adversarial Networks for Simulation	DE OLIVEIRA, Luke Percival
4:55 PM	[155] Modeling detector digitization and read-out with adversarial networks	USTYUZHANIN, Andrey
5:20 PM	[51] Track seeding in the Outer Tracker of CMS for HL-LHC	BRONDOLIN, Erica
5:45 PM	[67] Deep Neural Networks for Physics Analysis on low-level whole-detector data at the LHC	BHIMJI, Wahid
6:10 PM	[158] Parallelized Kalman-Filter-Based Reconstruction of Particle Tracks on Many-Core Architectures	RILEY, Daniel Sherman

Tuesday, August 22, 2017

Track 2: Data Analysis - Algorithms and Tools: Parallel Session - 107 (2:00 PM - 4:00 PM)

-Conveners: Sergei Gleyzer

time	[id] title	presenter
2:00 PM	[135] Learning to Remove Pileup at the LHC with Jet Images	METODIEV, Eric
2:20 PM	[49] Deep-learning in jet reconstruction at CMS	STOYE, Markus
2:45 PM	[58] Machine Learning Algorithms for b-jet tagging at the ATLAS experiment	PAGANINI, Michela
3:10 PM	[187] The HEP.TrkX Project: deep neural networks for HL-LHC online and offline tracking	TSARIS, Aristeidis
3:35 PM	[184] Exploring end-to-end deep learning solutions for event classification at CMS	ANDREWS, Michael

Track 2: Data Analysis - Algorithms and Tools: Parallel Session - 107 (4:45 PM - 6:45 PM)

-Conveners: Kyle Stuart Cranmer

time	[id] title	presenter
4:45 PM	[50] CMS Analysis and Data Reduction with Apache Spark	GUTSCHE, Oliver
5:05 PM	[147] GooFit 2.0	SCHREINER, Henry Fredrick
5:25 PM	[80] Building a scalable python distribution for HEP data analysis	LANGE, David
5:45 PM	[176] A Toolkit to Study Sensitivity of the Geant4 Predictions to the Variations of the Physics Model Parameters	JUN, Soon Yung
6:05 PM	[169] ROOT at the center of the future analysis ecosystem	NAUMANN, Axel
6:25 PM	[132] Novel functional and distributed approaches to data analysis available in ROOT	AMADIO, Guilherme

Thursday, August 24, 2017

Track 2: Data Analysis - Algorithms and Tools: Parallel Session - 107 (2:00 PM - 4:00 PM)

-Conveners: Sergei Gleyzer

time	[id] title	presenter
2:00 PM	[134] Speeding up prediction performance of the boosting decision trees-based learning models.	USTYUZHANIN, Andrey
2:20 PM	[113] Application of deep learning to the analysis for B -> K* Gamma in Belle II	Dr SCHRAM, Malachi
2:40 PM	[88] Convolution Neural networks in nucleon Decay Searches in Liquid Argon time projection Chambers	WIERMAN, Kevin
3:00 PM	[78] Convolutional Neural Network for Track Seed Filtering at the CMS HLT	PANTALEO, Felice
3:20 PM	[69] Machine Learning Photons Separation in the LHCb Calorimeter	RATNIKOV, Fedor
3:40 PM	[168] Automated proton track identification in MicroBooNE using gradient boosted decision trees	WOODRUFF, Katherine

Track 2: Data Analysis - Algorithms and Tools: Parallel Session - 107 (4:45 PM - 6:45 PM)

-Conveners: Axel Naumann

time	[id] title	presenter
4:45 PM	[95] The VISPA Internet-Platform in Deep Learning Applications	URBAN, Martin
5:10 PM	[140] Identification of Hadronically Decaying W Bosons and Top Quarks using Multivariate Techniques at ATLAS	NITTA, Tatsumi
5:30 PM	[130] Machine Learning for Antihydrogen Detection at ALPHA	CAPRA, Andrea
5:50 PM	[173] How easily can neural networks learn relativity?	CHITTURI, Kartik
6:10 PM	[136] Analysis Preservation and Systematic Reinterpretation within the ATLAS Experiment	HEINRICH, Lukas Alexander