Contribution ID: **804** Type: **Parallel talk**

TrackML : the roller coaster of organizing a HEP challenge on Kaggle and Codalab

Friday 12 July 2019 09:45 (15 minutes)

The HL-LHC will see ATLAS and CMS see proton bunch collisions reaching track multiplicity up to 10.000 charged tracks per event. Algorithms need to be developed to harness the increased combinatorial complexity. To engage the Computer Science community to contribute new ideas, we have organized a Tracking Machine Learning challenge (TrackML), running first on Kaggle platform, then on Codalab platform. Participants are provided events with 100k 3D points, and are asked to group the points into tracks; they are also given a 100GB training dataset including the ground truth. This talk will describe the challenges within the challenge, and the lessons drawn from this adventure to engage the machine learning community on a specific HEP problem.

Author: ROUSSEAU, David (LAL-Orsay, FR)

Presenter: ROUSSEAU, David (LAL-Orsay, FR)

Session Classification: Outreach, Education, and Diversity

Track Classification: Outreach, Education, and Diversity