



ID de Contribution: 36

Type: Non spécifié

Exploring evaluation methods for generative models in HEP

mardi 16 avril 2024 12:20 (15 minutes)

Deep generative models have emerged as a powerful paradigm for enhancing and maximising the potential for discovery at collider experiments. They can be deployed for multiple tasks, including fast simulations, data augmentation and anomaly detection. As novel methods continue to be developed, there is a pressing need to advance techniques for model selection and evaluation, particularly in high-dimensional scenarios. Such studies are crucial in a precision-driven field like high-energy physics. In this presentation, I will discuss some recent work in this direction, focusing on normalising flows, a popular class of methods for density estimation that allows both sampling and evaluation by construction.

Auteurs principaux: COCCARO, Andrea (Universita' di Genova/INFN); Dr REYES GONZALEZ, Humberto (RWTH Aachen University); LETIZIA, Marco (MaLGa Center, University of Genoa and INFN); Dr TORRE, Riccardo (INFN, Sezione di Genova)

Orateur: LETIZIA, Marco (MaLGa Center, University of Genoa and INFN)

Classification de Session: Methods and tools

Classification de thématique: Methods and tools