Physics Applications of AI Day

Wednesday 03 November 2021

<u>**Poster & Deluxe Sandwich Session**</u> **(16:00-18:00)**

time	[id] title	presenter
16:00	[20] ML in ATLAS	GUTH, Manuel RAINE, Johnny
16:01	[30] Generation of data on discontinuous manifolds via continuous stochastic non-invertible networks	DROZDOVA, Mariia
16:02	[27] Transformers and Graph Neural Networks	PALIOTTA, Daniele
16:03	[14] Deep learning applied to X-ray tomography as a new tool to analyse internal properties of superconductive wires	BAGNI, Tommaso
16:04	[22] Variable object classification for the third Gaia Data Release (DR3)	HOLL, Berry
16:05	[10] Neural networks for electron identification with DAMPE	DROZ, David
16:06	[28] Solving ttbar Combinatorics Using Graph Neural Networks	EHRKE, Lukas
16:07	[21] Jet Flavour tagging	SCHRÖER, Tomke MOULIN, Dimitri
16:08	[24] Novel functionalities at twin domain crossings	CORDERO-EDWARDS, Kumara
16:09	[15] Hystorian: A Processing Tool for Scanning Probe Microscopy and Other n-Dimensional Datasets	MUSY, Loïc BULANADI, Ralph
16:10	[26] Finding gravitational wave signals from binary black hole collisions with convolutional neural networks	BAVERA, Simone
16:11	[12] Full LST-1 data reconstruction with the use of convolutional neural networks	JURYSEK, Jakub LYARD, Etienne
16:12	[31] AI-based downy and powdery mildew detection in microscopy and holography in vines	Mrs BASSO, Tessa TRAN, Michael
16:13	[17] Priming PCA with EigenGame	MÁTÉ, Bálint
16:14	[18] Local and correlated studies of humidity-mediated ferroelectric thin film surface charge dynamics	GAPONENKO, Iaroslav
16:15	[11] Machine learning applied to Gamma Ray Astronomy	HELLER, Matthieu
16:16	[29] Faster Calorimeter Simulation	SINHA, Atul Kumar
16:17	[23] Draw the CURTAINs, Funnel, DREAM	KLEIN, Samuel
16:18	[32] Autoencoding star formation from cosmological parameters	Mr HERTZSCH, Benjamin
16:19	[33] Estimating physical properties of galaxies using deep learning	BAIT, Omkar
16:20	[13] ML Roulette for Track Overlay in ATLAS	SENGUPTA, Debajyoti
16:21	[19] Graph Network Autoencoder for Jets	LEIGH, Matthew
16:22	[25] Information-theoretic stochastic contrastive conditional GAN for physical data generation	KINAKH, Vitaliy
16:23	[16] Turbo-Sim: a generalised generative model with a physical latent space	QUÉTANT, Guillaume

16:24	[34] Preprocessing solar spectra with a variational autoencoder to obtain the optimal dataset for solar flare prediction	ZBINDEN, Jonas
16:25	[35] Gaia the 2 billion-star mission	HOLL, Berry