

Big Data Science in Astroparticle Research - Workshop

Tuesday, February 18, 2020

Deep Learning (10:00 AM - 10:40 AM)

time	[id] title	presenter
10:00 AM	[39] Applying Dynamic Graph CNN to reconstruct the direction of electrons in JUNO	Mr SCHMIDT, Hauke
10:20 AM	[40] Identification of Cosmic Rays from Sources using Dynamic Graph Convolutional Neural Networks	Mr LANGNER, Niklas

Deep Learning (11:10 AM - 1:00 PM)

time	[id] title	presenter
11:10 AM	[43] FPGA Belle II Trigger	Mr BÄHR, Steffen
11:50 AM	[52] FPGA Trigger of SuperCDMS	Dr MEYER ZU THEENHAUSEN, Hanno
12:10 PM	[47] Xmax Reconstruction with AugerPrime using Deep Learning	SCHRÖDER, Sonja
12:30 PM	[42] 1) Lowering the threshold of Tunka-Rex with autoencoder; 2) Toward Tunka-Rex Virtual Observatory	KOSTUNIN, Dmitriy

Deep Learning (2:30 PM - 3:50 PM)

time	[id] title	presenter
2:30 PM	[35] Bayesian Networks (exact title & title tbc)	Prof. PLEHN, Tilman
3:10 PM	[50] Exploitation of Symmetries and prior Knowledge in Deep Learning Architectures for IceCube	HUENNEFELD, Mirco
3:30 PM	[44] Addressing domain adaptation issues with CRNNs and VERITAS data	Mr SPENCER, Samuel

Wednesday, February 19, 2020

Deep Learning (9:00 AM - 9:40 AM)

time	[id] title	presenter
9:00 AM	[45] Simulation of Extensive Air Showers with Deep Neural Networks	KÖPKE, Marcel
9:20 AM	[46] Physics motivated GAN for generating fourmomenta	Mr EICH, Niclas