Session Program

Feb 20-22, 2017

HAP Workshop | Big Data Science in Astroparticle Physics

Deep Learning

RWTH Aachen University SuperC RWTH Aachen University Templergraben 57, 52062 Aachen phone:0241 8090801

Tue, February 21

.

9:00 AM	Deep Learning Session Location: RWTH Aachen University SuperC, RWTH Aachen University Templergraben 57, 52062 Aachen phone:0241 8090801
	09:00-09:15 Organisational Matter
	Speaker Prof. Martin Erdmann
	09:15 - 09:35 Deep Learning for neutrino telescopes
	Speaker Dr Stefan GEIßELSÖDER
	09:40 - 10:00
	Deep Learning in Astroparticle Physics exemplified by the Reconstruction of Muon-Neutrino Events in IceCube
	Speaker Mr Mirco HÜNNEFELD
	10:05-10:25 Recognizing patterns in the arrival directions of ultra-high energy cosmic rays
	Speaker Mr Marcus Wirtz
	10:30-10:45 Message of the Vice-Rector for Research and Structure of the RWTH Aachen University
10:45 AM	Prof. Rudolf Mathar
11:15 AM	Deep Learning Session Location: RWTH Aachen University SuperC, RWTH Aachen University Templergraben 57, 52062 Aachen phone:0241 8090801
	11:15-12:00 Convolutional Networks in Computer Vision
	Speaker Prof. Bastian Leibe
	12:05-12:25 Machine Learning in gamma-ray astronomy: More than just Background- Suppression
	Speaker Mr Maximilian NOETHE

12:25-12:45 Pattern recognition in KM3NeT: A multi-dimensional challenge

Deep Learning

Session

Speaker Dr Joao COELHO

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14:30 - 15:15 Spatiotemporal Integration in Recurrent Deep Neural Networks

Speaker

Prof. Sven Behnke

15:15 - 15:35

Exploring deep network architectures to reconstruct cosmic ray induced air showers

Speaker

Mr Jonas Glombitza

15:35 - 15:55 Using neural nets to predict SUSY yields at the LHC

Speaker

Prof. Jamie TATTERSALL

15:55 - 16:15

Event reconstruction and classification in proton-proton collisions using deep neural networks

Speaker

Mr Yannik Rath

4:15 PM

4:45 PM

Deep Learning: Deep Learning

Session

Speaker Prof. Moritz Helias

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16:45 - 17:20 Biological neuronal networks - from structure to activity

5:20 PM