

HAP Workshop | Big Data Science in Astroparticle Physics

Tuesday 21 February 2017

Deep Learning (09:00-10:45)

| time | [id] title | presenter |
|-------|---|-------------------------|
| 09:00 | [3] Organisational Matter | Prof. ERDMANN, Martin |
| 09:15 | [4] Deep Learning for neutrino telescopes | Dr. GEIBELSÖDER, Stefan |
| 09:40 | [5] Deep Learning in Astroparticle Physics exemplified by the Reconstruction of Muon Neutrino Events in IceCube | Mr. HÜNNEFELD, Mirco |
| 10:05 | [6] Recognizing patterns in the arrival directions of ultra-high energy cosmic rays using deep neural networks | Mr. WIRTZ, Marcus |
| 10:30 | [7] Message of the Vice-Rector for Research and Structure of the RWTH Aachen University | Prof. MATHAR, Rudolf |

Deep Learning (11:15-12:45)

| time | [id] title | presenter |
|-------|--|------------------------|
| 11:15 | [8] Convolutional Networks in Computer Vision | Prof. LEIBE, Bastian |
| 12:05 | [9] Machine Learning in gamma-ray astronomy: More than just Background Suppression | Mr. NOETHE, Maximilian |
| 12:25 | [10] Pattern recognition in KM3NeT: A multi-dimensional challenge | Dr. COELHO, Joao |

Deep Learning (14:30-16:15)

| time | [id] title | presenter |
|-------|---|-------------------------|
| 14:30 | [11] Spatiotemporal Integration in Recurrent Deep Neural Networks | Prof. BEHNKE, Sven |
| 15:15 | [12] Exploring deep network architectures to reconstruct cosmic ray induced air showers | Mr. GLOMBITZA, Jonas |
| 15:35 | [13] Using neural nets to predict SUSY yields at the LHC | Prof. TATTERSALL, Jamie |
| 15:55 | [14] Event reconstruction and classification in proton-proton collisions using deep neural networks | Mr. RATH, Yannik |

Deep Learning: Deep Learning (16:45-17:20)

| time | [id] title | presenter |
|-------|--|----------------------|
| 16:45 | [15] Biological neuronal networks - from structure to activity | Prof. HELIAS, Moritz |