



Contribution ID: 350

Type: **Poster**

Knowledge sharing on deep learning in physics research using VISPA

Thursday 7 November 2019 16:15 (15 minutes)

The VISPA (VISual Physics Analysis) project provides a streamlined work environment for physics analyses and hands-on teaching experiences with a focus on deep learning.

VISPA has already been successfully used in HEP analyses and teaching and is now being further developed into an interactive deep learning platform.

One specific example is to meet knowledge sharing needs in deep learning by combining paper, code and data at a central place.

Additionally the possibility to run it directly from the web browser is a key feature of this development.

Any SSH reachable resource can be accessed via the VISPA web interface.

This enables a flexible and experiment agnostic computing experience.

The user interface is based on JupyterLab and is extended with analysis specific tools, such as a parametric file browser and TensorBoard.

Our VISPA instance is backed by extensive GPU resources and a rich software environment.

We present the current status of the VISPA project and its upcoming new features.

Consider for promotion

No

Authors: Mr TEMME, Alexander (RWTH Aachen University); FISCHER, Benjamin (RWTH Aachen University (DE)); NOLL, Dennis (RWTH Aachen University (DE)); Mrs HAFNER, Katharina (RWTH Aachen University); FACKELDEY, Manfred Peter (Rheinisch Westfaelische Tech. Hoch. (DE)); RIEGER, Marcel (CERN); ERDMANN, Martin (Rheinisch Westfaelische Tech. Hoch. (DE)); URBAN, Martin (RWTH Aachen University); Mr BEER, Max (RWTH Aachen University); Mr VIEWEG, Max (RWTH Aachen University); Mr EICH, Niclas (RWTH Aachen University); RATH, Yannik Alexander (RWTH Aachen University (DE))

Presenter: FACKELDEY, Manfred Peter (Rheinisch Westfaelische Tech. Hoch. (DE))

Session Classification: Posters

Track Classification: Track 5 –Software Development