

Preserve-to-reuse: Building REANA reproducible data analysis platform

Tuesday 17 September 2024 09:30 (45 minutes)

In this talk we present the story of building REANA, the free and open source platform for reusable and reproducible computational data analyses. REANA allows researchers to structure information about input data, analysis code, containerised environments and computational workflows so that the analyses can be instantiated and executed on remote compute clouds. REANA supports several declarative workflow systems (CWL, Snakemake, Yadage), container technologies (Apptainer, Docker) and compute backends (HTCondor, Kubernetes, Slurm). We describe the REANA platform, the typical use cases from experimental particle physics, exchange observations on sociological and technological challenges inherent in facilitating reusable computational research, as well as discuss the future plans for the evolution of the platform.

Presenter: Dr SIMKO, Tibor (CERN)

Session Classification: Invited Talks