"HPC and Big Data Technologies for Global Systems" Interactive Workshop and Hands-on Session

At the **HiPEAC 2020** in Bologna, Italy, 20-22 January 2020

Workshop **on 21st January 2020**, **10:00 – 13:00 h** in room Beige C

Workshop

We aim to attract and bring together different stakeholders from the HPC and Big Data arena, from researchers to end users. You will have the opportunity to **learn more about advanced HPC, HPDA and AI technologies to improve data-centric computation**.

We will introduce the EU project **HiDALGO**, its Portal and its **services**. Then we will focus on our three **global challenge case studies**.

Following one of these cases, the urban air pollution case study, in a **hands-on part** participants will create a workflow with HPC simulations, their visualizations, the corresponding blueprints, and run that from the Portal.

We are **highly interested in your opinions** and are looking forward to a **lively discussion** with you!

Please…

- Register for this workshop at https://www.hipeac.net/2020/bologna/#/registration/
- Prepare a 1 min lightning talk about your own (research) topics and interests
- Bring your laptop!

HiDALGO

HiDALGO advances HPC, HPDA and AI technologies in order to improve data-centric computation in the domain of Global Challenges.

HiDALGO is an EU-funded 3-year project involving an interdisciplinary team of 13 partners from seven countries (Dec 2018 – Nov 2021).

Website: https://hidalgo-project.eu
Twitter: @EU_HiDALGO

Migration

We apply our agent-based simulation framework to predict where displaced people will arrive. This allows decision makers and NGOs to allocate humanitarian resources accordingly.

Urban Air Pollution

We provide policy makers and society with an easy-to-use HPC computational tool that forecasts air pollution in cities with a very high resolution, 1 meter at street level.

Social Networks

We aim to understand the spread of messages in social networks, to identify false / malicious messages and to develop a highly scalable simulation framework.