



## Workshop

Tackling Global challenges  
with HPC, HPDA and simulations

Wednesday, 7<sup>th</sup> July,  
Thursday, 8<sup>th</sup> July and  
Friday, 9<sup>th</sup> July 2021

Online

Joined workshop of  
HiDALGO and ESiWACE

## Invitation

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The EU-funded projects HiDALGO and ESIWACE kindly invite for a joined online workshop on “Tackling Global challenges with HPC, HPDA and simulations” (Wednesday, 7<sup>th</sup> till Friday, 9<sup>th</sup> July 2021).

The three-days workshop will bring together researchers and industry from the HPC area to exchange views and to learn more about how high performance computing HPC supports to deal with issues of today’s world, e.g. climate change, energy, migration, air pollution, social media. All sessions are designed as practical presentations, training, hands-on experience, demonstrations and plenary sessions.

Register here:

**<https://bscw.hlr.de/pub/bscw.cgi/415760>**

Further information, please contact

**Ludger Benighaus ([lbenighaus@dialogik-expert.de](mailto:lbenighaus@dialogik-expert.de)).**

Participation is free of charge, but registration is mandatory. Please find an outline of the agenda here.

| Day 1, Wed. 7 <sup>th</sup> July    |                                                                                                                                                                                                |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9.00 am – 12.00 am<br>CEST (Berlin) | High Performance Computing and Data Analytics in the HiDALGO project – introduction and specific implementations<br>Instructors: Marcin Lawenda, Zoltán Horváth, Dimitrios Tsoumakos, Yani Xue |
| 2.00 pm – 3.30 pm<br>CEST (Berlin)  | Simulation of forced migration – case studies from Sudan and Syria (HiDALGO)<br>Instructor: Alireza Jahani                                                                                     |

| Day 2, Thur. 8 <sup>th</sup> July   |                                                                                                                 |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| 9.00 am – 12.00 am<br>CEST (Berlin) | A Short Introduction to Quantitative Network Analysis<br>Instructor: Bernhard Geiger, Know-Center Graz, Austria |

| Day 3, Fri. 9 <sup>th</sup> July |                                                                                                                                                                  |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9.00 – 10.30 am<br>CEST (Berlin) | Opportunities and challenges for HPC and HPDA in Earth System modelling<br>ESIWACE<br>Instructors: Peter Dueben, Joachim Bierkamp, Julian Kunkel, Florian Ziemen |

**HiDALGO** (<https://hidalgo-project.eu/>) – HPC and Big Data Technologies for Global Systems – is a European project funded by the Horizon 2020 Framework Programme of the European Union. The project is carried out by 13 institutions from seven countries.