WIGNER GPU LABORATORY PRESENTS GPU DAY 2020

20-21. OCTOBER

MORE INFORMATION AND REGISTRATION:

HTTPS://GPUDAY.COM/

HTTPS://INDICO.KFKI.HU/EVENT/1218/

PATRON: PÉTER DOMOKOS, PÉTER LÉVAI

THE FUTURE OF COMPUTING, GRAPHICS AND DATA ANALYSIS

EMERGING ACCELERATOR PLATFORMS

IMAGE PROCESSING, COMPUTER VISION, AND RECONSTRUCTION

INDUSTRIAL APPLICATIONS

GRAPHICS, RENDERING, AND IMAGE SYNTHESIS

COMPUTING AND VISUALIZATION IN EDUCATION

QUANTUM COMPUTING

MACHINE LEARNING, NEURAL NETWORKS, FEATURE RECOGNITION

MANY-CORE COMPUTING IN PHYSICS AND OTHER FIELDS OF SCIENCE

The Wigner GPU Laboratory

The aim of the Wigner GPU Laboratory is to provide support for any fields in science in sense of parallel computing techniques, especially for faster numerical calculations in gravitational and high-energy physics, astronomy, astrophysics, material sciences, and detector simulations. We have started with GPU technologies in 2009, but later our aim was improved to any kind of parallel computing technology. Today, many- and multi-core, GPU, FPGA, Xeon Phi technologies are all available in the laboratory. Beside the academic environment and other institutes, we have connections to industrial partners as well.

Years of Service

History

- 2005-2008 Idea of using GPU in HEP calculations
 Starting of the WLCG Grid (ALICE & CMS) Tier-2 at the Wigner
- 2009 Discussion with GGB & P. Lévai & G. Debreczeni
 2 main direction: HEP & Gravity
- 2010- 1st GPU Day & formation of the Wigner GPU Laboratory
 Students: M. F. Nagy(-Egri) & D. Berényi
- 2010- GPU Day series
- 2016- Lectures on Modern Computing in Science series
 2016- Wigner GPU Lab Fellowship

The Staff





Barnaföldi, Gergely Gábor

Kacskovics, Balázs

Szigeti, Balázs

Bíró, Gábor

Academic & Industrial Partners













































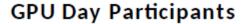






Results in numbers

- 6 Lectures on Modern Computing in Science
- 10 GPU Days

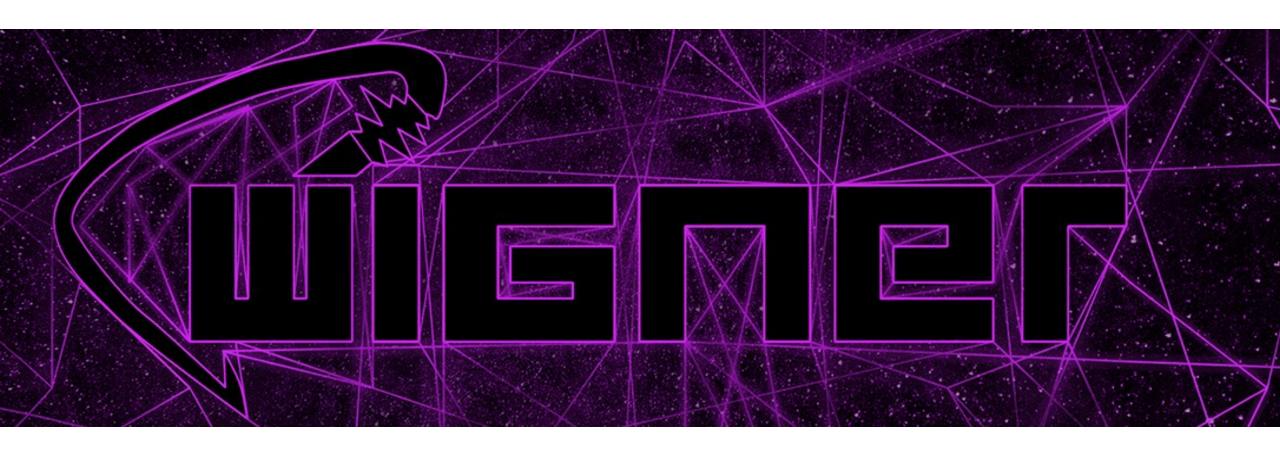




- 25 Wigner GPU Lab Fellowship
 - 14 finished fellowships
 - 11 running fellowships
- 23+ industrial & academic partners (Lombiq LTD, Ericsson, Khronos, CERN)
- 25+ scientific publications and program codes

Years of Service

Wigner GPU Day 2020 - gpuday.com





The era of mixing virtual & real...



See more at: gpu.wigner.hu