

HPC Industrial Session

Tomas Kozubek

IT4Innovations National Supercomputing Center, VSB-TUO, Czech Republic

tomas.kozubek@vsb.cz

Tomas Karasek

IT4Innovations National Supercomputing Center, VSB-TUO, Czech Republic

tomas.karasek@vsb.cz

Abstract

Technologies utilizing high-performance computing (HPC) such as numerical simulations, data analytics, visualization, and artificial intelligence (AI) provide valuable knowledge for industry and society in designing better products, processes, and making data-driven decisions. Nowadays, Big Data arises in many different areas such as smart cities, environment, medicine, social media, businesses, cyber security, etc. Big Data are aggregated and analyzed quite often using AI techniques and HPC is crucial ingredient in many Big Data storage, retrieval, and processing applications.

The HPC Industrial Session will focus on convergence among the HPC, Cloud, Big Data, and AI technologies towards exascale era. An overview of currently available technologies that fit with this concept will be presented together with examples of their actual use in scientific and industrial applications by the leading HPC technology suppliers such as HPE, ATOS, and NVIDIA (MComputers).

A part of the session will be also presentation of EuroHPC ecosystem and EuroCC (National Competence Centres in the framework of EuroHPC) activities and services offered to the academy and industry.

T. Kozubek, T. Karasek

IT4Innovations National Supercomputing Center, VSB-TUO, Czech Republic

tomas.kozubek@vsb.cz, tomas.karasek@vsb.cz

Company representative

Hewlett Packard Enterprise (HPE)

Company representative

ATOS

Company representative

Mcomputers

