



Virtual Workshop on AI and HPC convergence

organized by

EXDCI-2 (European eXtreme Data and Computing Initiative - Phase 2)

November 26th, 2020

Agenda November 26th, 2020

14:30	Welcome and brief introduction	
14:30-16:00	Session 1 – AI and HPC Convergence	Chair: Mathis Bode
14:30-14:45	HPDA for Biomolecular Research: The BioExcel Case	Rosa Badia (BSC)
14:45-15:00	Towards the next level of use of HPC in Engineering	Amgad Dessoky (HLRS)
15:00-15:15	Efficient CNN for space data classification on EuroEXA multi-FPGA platform	Iakovos Mavroidis (ICS-FORTH)
15:15-15:30	An HPC-enabled Data Science and Learning Environment for Climate Change Experiments at Scale	Donatello Elia (CMCC/ESiWACE)
15:30-15:45	Elastic Ensemble Run Data Processing with Melissa	Bruno Raffin (INRIA)
15:45-16:00	Towards the use of HPC for HEP workflows	Maria Girone (CERN OpenLab)

16:00-16:30	<i>Coffee break</i>	
16:30-18:00	Session 2 – AI and HPC Convergence	Chair: Giovanni Aloisio
16:30-16:45	Maestro: Orchestrating Data for HPC (and AI) Applications	Dirk Pleiter (Jülich Superc. Centre)
16:45-17:00	The Combination of Real-Time Data, HPC, and Interactive Visualization in the VESTEC project	Max Kontak (DLR)
17:00-17:15	ASPIDE: A data-oriented programming model for AI/HPC Convergence	Jesus Carretero (UC3M)
17:15-17:30	SAGE - Object Storage Platform for HPC & AI	Sai Narasimhamurthy (Seagate Technology, LLC)
17:30-17:45	Subgrid Modeling of Turbulent Reactive Multiphase Flows Using Physics-Informed Enhance Super-Resolution Generative Adversarial Networks	Mathis Bode (RWTH Aachen Univ.)
17:45-18:00	The New HPC: Accelerating AI, HPC and Visualisation	Tim Lanfear (NVIDIA)
18:00	Wrap up and closing session	Stephane Requena

Program Committee

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Stephane Requena (GENCI)

Mathis Bode (RWTH Aachen University)

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