FocusCoE: Webinar with Industries

Opportunities and Challenges for Industrial Applications

4 February, 2020

10:00-12:00 (CET)

Online

FOCUS CoE

European Excellence in HPC Applications

High Performance Computing (HPC) is at the core of significant advances in scientific discoveries and innovation in industrial design and society needs, and is therefore a strategic resource for Europe's future. In recent years, the European Union (EU) has considerably increased its investments in the HPC ecosystem, making available resources to set up large facilities capable of reaching the exascale rate of computation and data centers with many exa-bytes of secondary storage, as well as to support the development of a European technology and pursue excellence in application developments. Regarding this last objective, the Horizon 2020 program has supported the creation of 14 **Centers of Excellence (CoEs**) for computing applications, in areas such as environmental science, renewable energies, new materials, bioscience, etc., whose scientific challenges motivate the need for exascale-class computing resources.

This webinar aims to cover some of the most critical research areas of the system of CoEs, highlighting topics such as physical-mathematical modelling, numerical algorithms and scientific libraries, and giving a few exmples of how CoEs activities and applications result in tangible benefits to address scientific and industrial challenges.

The webinar is supported by the EU project **FocusCoE**, an initiative funded to promote the CoEs technologies and services to stakeholders from science and industry, with particular focus on small and medium-sized enterprises (SMEs), and thereby reinforce the positive impact of HPC in all of the areas covered by the CoEs.

WEBINAR AGENDA, 04 February 2021
Guest Speakers from Various HPC Centers of Excellence (CoEs)

Guest Speakers from Various HPC Centers	
10:00 – 10:15	Introduction
10:15 – 10:35	EoCoE: the European Energy oriented Centre of Excellence in HPC Presenter: Massimo Celino (Enea, Italy)
10:35 – 10:55	Parallel block low-rank sparse direct solvers with applications Presenter: Alfredo Buttari (CNRS, France)
10:55 – 11:15	POP –Performance Analysis as a Service Presenter: Jose Gracia (HLRS, Uni Stuttgart, Germany)

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11:15 – 11:35	Working with SME on the design of new energy materials Presenter: Alison Walker (University of Bath)
11:35 – 11:55	Discussion & Lessons Learned
11:55 – 12:00	Conclusion