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Co-design and federation of computing services for AI and simulation

This presentation will focus on the collaborative, quantitative co-design approach to the deployment of large-scale computing services adopted by the STFC DiRAC HPC Facility in the UK (www.dirac.ac.uk). Over the past 15 years, successive generations of DiRAC services have demonstrated how workflow-centred co-design can maximise the scientific impact of computing investments. The co-design of DiRAC services has ranged from silicon-level to system-level, alongside extensive software development effort, and has delivered significantly increased system capabilities.

I will also discuss how federation can deliver additional research capabilities and optimise service exploitation, while lowering the bar for access to large-scale computing for new users.

Looking to the future, I will explore how co-design can be used to develop cost-effective and energy-efficient heterogeneous computing ecosystems for AI and simulation.

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Student or Postdoc?

No. Not a student nor Postdoc.

Institute

STFC DiRAC HPC Facility / University of Leicester

Registered for the conference?

No

CHPC User

No

CHPC Research Programme

Workshop Duration

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