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# Challenges and Opportunities of HPC in the age of AI

*Monday, 2 December 2024 17:00 (45 minutes)*

Large scale AI applications are drivers for the design and deployment of the next generation of supercomputers. While large language model training and generative AI applications take the headlines, scientific workloads are starting to utilize AI as algorithmic extensions to their existing implementations. We will discuss how the needs between these communities differ, how system software and system middleware need to develop to support these use cases, and hopefully demonstrate how once again supercomputing turns compute-bound problems into I/O-bound problems.

**Student or Postdoc?**

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**Co-Authors**

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**CHPC Research Programme**

**Workshop Duration**

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**Session Classification:** Keynote