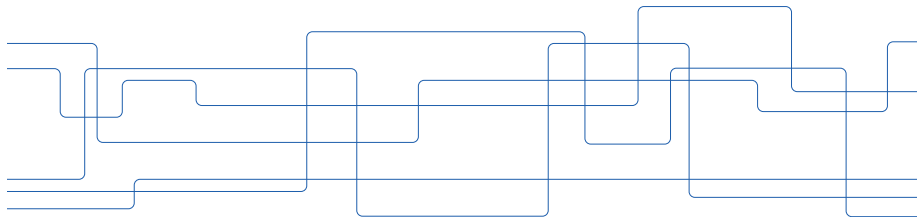# AQTIVATE Training Workshop Welcome

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CST | EECS | KTH

November 2023

Goals

- ▶ Learn about computer architectures and understand their performance
  - ▶ HPC computer architectures
  - ▶ Performance analysis and modelling
- ▶ Learn how to parallelise and get practical experience with key parallel programming models
  - ▶ Parallel algorithms
  - ▶ Parallel programming using MPI
  - ▶ GPU programming
- ▶ Learn about modern algorithms
  - ▶ Iterative solvers
  - ▶ Algebraic multigrid methods
  - ▶ Monte-Carlo methods

Logistics

- ▶ Slack communication channel
  - ▶ Invitation link: `https://shorturl.at/ekHW1`
  - ▶ All announcements in writing will happen via this channel
- ▶ Lectures
  - ▶ Copy of the slides will become available at: `https://shorturl.at/aiN49`
- ▶ Labs
  - ▶ Material will be provided at the beginning of each set of lab sessions
- ▶ Fee payments