Contribution ID: **10**   Type: **not specified**

The Green IT aspects of Supercomputing

Wednesday, 26 May 2021 10:40 (20 minutes)

Update on supercomputer CSCS in Lugano Switzerland and their policies for lowering computing costs and a lighter carbon footprint. A potential European strategy for lowering cost and carbon footprint will also be proposed.

CSCS provides the supercomputers and expertise that help keep Swiss science at the forefront of development worldwide. Supercomputers are the tools of today's inventors. With them, researchers can demonstrate science that was never possible with theory and experimentation alone.

The centre operates the very latest supercomputers and works with the world's leading computing centers and hardware manufacturers. This enables the centre to be the driving force behind innovation in computational research in Switzerland: the very latest computer architecture helps to ensure that users'codes run quickly so they can focus more on their scientific results.

CSCS houses a diverse pool of supercomputers and these are dedicated to national and custom services. The supercomputers are in the machine room, which measures 2000 square meters with no single supporting pillar or any partitioning; this all to minimize restrictions to the installation and operation of supercomputers in the future.

Presenter: SCHULTHESS, Thomas (CSCS, Switzerland)

Session Classification: Session 2 - Addressing climate change - the digital aspects