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Exascale Computing for NWP and Climate Science

Tuesday, 21 September 2021 17:00 (20 minutes)

The Exascale era will bring a variety of challenges and opportunities to the weather and climate communities. As we reach the limits of what can be done using traditional technologies and methodologies, we see an explosion not just in processor diversity but also in the methods used to do science and to produce actionable weather and climate information. These changes will demand agility –from the applications and from the scientists who develop and use them.

This talk will explore the changing landscape of computing in the exascale era and introduce the SmartSim library, which enables physical models to interface with the rapidly growing ecosystem of data science and machine learning.

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