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Machine learning, high performance computing and numerical weather prediction

Friday, 24 September 2021 13:20 (20 minutes)

This talk will present an overview on the use of machine learning at ECMWF. It will outline ECMWF's Machine Learning Roadmap for the next 5-10 years as well as the MAELSTROM EuroHPC project that will realise a co-design cycle for machine learning applications in weather and climate science. The talk will present challenges for machine learning in Earth system modelling and outline opportunities. It will discuss how machine learning can be introduced into the operational numerical weather prediction workflow, and the potential impact on computational efficiency and portability.

Primary author: DUEBEN, Peter (ECMWF)

Presenter: DUEBEN, Peter (ECMWF)

Session Classification: Session 10

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