MMM SEMINAR SERIES

Digital Twins of the Earth System and the European Destination Earth Activity

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Digital twins of our planet aim to deliver a view of the changing Earth with unprecedented detail and accuracy allowing to monitor and predict climate change and its impacts on society. They are intended to support policy-makers in taking appropriate measures to better prepare for extreme events, the mitigation of their impacts and help devise adaptation strategies for important aspects of society.

Earth digital twins require substantial investments in digital technology as they are based on high-resolution simulations, ingest vast amounts of diverse observations and translate between the physical and the human system. High-performance computing and extreme-scale data handling are necessary ingredients, and machine learning promises to be a major contributor to addressing the computing and data challenges so that digital twins will become affordable. This talk will provide an overview of both challenges and presently drafted solutions in the context of the European Destination Earth initiative.

Thursday, 9 February 2023, 2:00 PM

Join Zoom Meeting

Seminar will also be live webcast
https://operations.ucar.edu/live-mmm