

Where to Learn About AI for Climate Science

NVIDIA GTC highlights Earth-2 digital twin simulations, AI weather models enabling breakthroughs to mitigate climate change.

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The climate is changing. This makes predicting the path of extreme-weather events, among other challenges, all the more difficult.

AI powered by NVIDIA technology can help tackle such challenges in climate science and increase the accuracy of weather prediction.

Dive deeper into AI for climate science at NVIDIA GTC , a global conference for the era of AI and the metaverse.

Running March 20-23, the virtual conference brings together the brightest leaders, researchers and developers in climate science, high performance computing and AI to discuss how GPU-accelerated, AI-enabled digital twins of the Earth and other technology breakthroughs can help predict extreme weather across the globe.

Attendees can network with NVIDIA and industry experts, and hear the latest in accelerated computing by watching NVIDIA founder and CEO Jensen Huang's GTC keynote on Tuesday, March 21, at 8 a.m. PT.

Several GTC sessions will cover how accelerated computing can help predict, detect and mitigate climate-related issues.

Can't-miss speakers include:

Peter Bauer, director of Destination Earth at the European Centre for Medium-Range Weather Forecasts , will discuss working with NVIDIA to address the need for HPC and extreme-scale data handling to develop affordable digital twins of Earth with unprecedented detail and accuracy.

Francisco Reyes, director of the Earth sciences department at the Barcelona Supercomputing Center , will showcase recent developments aimed at producing future climate information that allows for a balanced, efficient relationship between users and modelers.

Dale Durran, professor in the atmospheric sciences department at the University of Washington , will discuss how a deep learning weather-prediction model allows forecasts to approach state-of-the-art numerical weather prediction.

Shell's Pandu Devarakota and Detlef Hohl and NVIDIA's Anima Anandkumar, Farah Hariri and Kamyar Azizzadenesheli will showcase how the NVIDIA Earth-2 digital twin initiative uses the NVIDIA Modulus and Omniverse platforms to achieve unprecedented speed, resolution and interactivity — using GPU acceleration, AI and networking to mitigate climate change and its impact.

Gene Pache, founder, president and CEO of TempoQuest, and Amirezza Rastegari, senior program manager at Microsoft, will showcase the power of using GPUs for accurate weather modeling, so companies can properly forecast renewable energy production and plan for natural disasters.

Sameh Abdulah and Hatem Ltaief, research scientists at KAUST , will explain non-Gaussian geostatistical modeling and prediction on modern GPUs for climate and weather research.

Register for free to attend GTC and discover how groundbreaking technologies are shaping the world. Add sessions focused on climate change and Earth-2 to your conference agenda.

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