



Fifth Annual Workshop on Understanding Climate Change from Data

August 4-5, 2015 | University of Minnesota Minneapolis, MN

Overview

Climate science has experienced a rapid transformation from a data-poor to a data-rich environment. In particular, climate related observations from remote sensors on satellites and weather radars, in situ measurements and sensor networks, as well as outputs of climate or Earth system models from large-scale computational platforms, provide terabytes of spatio-temporal data. These massive and information-rich datasets offer huge potential for advancing the science of climate change and assessments of climate change impacts.

This year's workshop will bring together researchers who are advancing the computational analysis methods necessary for addressing key challenges in climate science. A major focus of the workshop is on computational data science tools that can extract patterns, trends, and predictive insights from climate data that capture the complex dependencies among climate variables, including transient phenomena and extreme events.

This year's workshop follows four successful annual workshops and will report on the computational methods, algorithms and principles developed by this Expeditions project. In addition, the workshop will feature a number of talks and a panel discussion on the impacts of climate change on water resources and the nexus of food, energy, water and ecosystems.

Call for Participation

If you are interested in presenting your research at a poster session on the evening of August 4, 2015, please send a short abstract (~ 250 words) to uccdata@umn.edu with subject line "UCC15 Workshop Abstract Submission" no later than Monday, June 8. Limited travel support will be available for students and postdocs.

For details, including a list of invited speakers, participants, program and travel arrangements, please visit the workshop website, linked below.

You can also find the program for our previous two workshops here:

http://climatechange.cs.umn.edu/annual_2013.php

http://climatechange.cs.umn.edu/annual_2014.php

Topics include but not limited to:

- Climate change & impacts
- Model evaluation & combination
- Uncertainty assessments
- Climate variability & attribution
- Informing adaptation & policy
- Spatiotemporal data mining
- Extreme values & rare events
- Associations & causalities
- Predictive modeling
- Change & anomaly detection

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Workshop Website: climatechange.cs.umn.edu/annual.php