Recent advances in big data machine learning in Hydrology - CUAHSI Cyberseminar Series

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Recent Advances in Big Data Machine Learning in Hydrology - CUAHSI Spring Cyberseminar Series

Recently big data machine learning has led to substantial changes across many areas of study. In Hydrology, the introduction of big data and machine learning methods have substantially improved our ability to address existing challenges and encouraged novel perspectives and new applications. These advances present new opportunities methods that aid scientific discovery, data discovery, and predictive modeling. This series cover new techniques and findings that have emerged in Hydrology during the previous year, with a focus on catchment and land surface hydrology.

Host: Chaopeng Shen, Pennsylvania State University

All talks take place on Fridays at 1:00 p.m. ET.


Dates, Speakers, and Topics:

- April 5, 2019: Long Short-Term Memory (LSTM) networks for rainfall-runoff modeling | Frederik Kratzert, Johannes Kepler University
- April 12, 2019: Use deep convolutional neural nets to learn patterns of mismatch between a land surface model and GRACE satellite estimates | Alex Sun, University of Texas at Austin
- April 19, 2019: Long-term projections of soil moisture using deep learning and SMAP data with aleatoric and epistemic uncertainty estimates | Chaopeng Shen, Pennsylvania State University
- April 26, 2019: Exploring deep neural networks to retrieve rain and snow in high latitudes using multi-sensor and reanalysis data | Guoqiang Tang, Tsinghua University
- May 3, 2019: TBD | TBD
- May 10, 2019: Remote sensing precipitation using artificial neural networks and machine learning methods | Kuolin Hsu, University of California, Irvine

Join Us!

Registration is free! You must register for the series in order to attend. To register, click here.

After registering, you will receive a confirmation email containing information about joining the series.