



Contribution ID: 54

Type: **Oral presentation**

# Rainfall nowcasting using deep learning method in southeast of Brazil

*Wednesday, October 7, 2020 11:40 AM (20 minutes)*

Around the world, such as in southeastern Brazil, extreme rainfall events cause several socioeconomic damages. Due to some of its characteristics, as the high space-time variability, these events are difficult to predict. Methods based on deep learning can be one of the solutions for this type of issue. These methods have a high capacity to learning through historical events. This research aims to develop a model able to generate rainfall nowcasting based on neural networks using radar data. For study case, fifteen rainfall events were selected in the region of Campinas (state of São Paulo-Brazil). The results show that the approach can be a possible solution for nowcasting of extreme rainfall events.

**Author:** CASERI, Angelica

**Co-author:** B. L. SANTOS, Leonardo (Cemaden)

**Presenter:** CASERI, Angelica

**Session Classification:** Flash Flood Prediction