

A Convolutional Neural Network for Weather Front Detection

James Biard (North Carolina State University, Asheville, NC)

A 2D convolutional neural network has been developed that is able to detect cold, warm, stationary, and occluded surface weather front boundaries using temperature, pressure, humidity, and wind data from weather models. This talk describes the network, its training, and its use with data from the MERRA-2 dataset.