Interpolation and Extrapolation of Subsequent Weather Radar Images

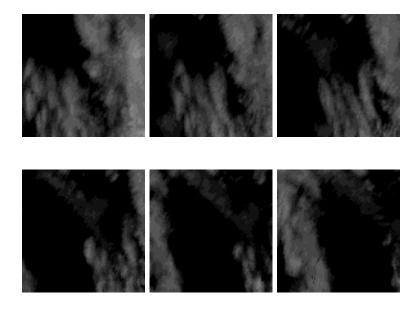
Bachelor's Thesis

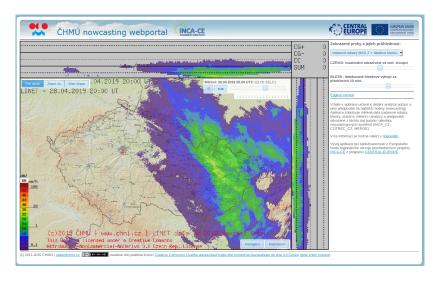
Matej Choma

Department of Applied Mathematics Supervisor: Ing. Jakub Bartel

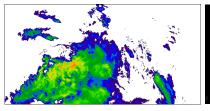
May 7, 2019

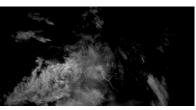
Introduction

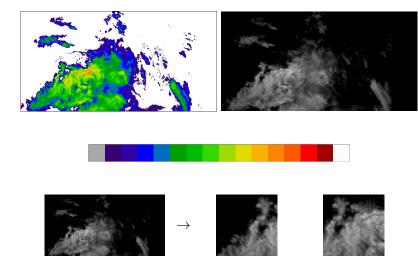


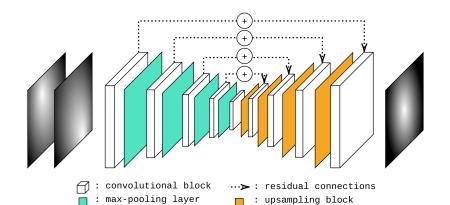


Screenshot of the CHMI radar images from the nowcasting webportal at portal.chmi.cz/files/portal/docs/meteo/rad/inca-cz/short.html

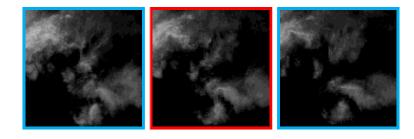


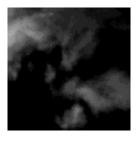




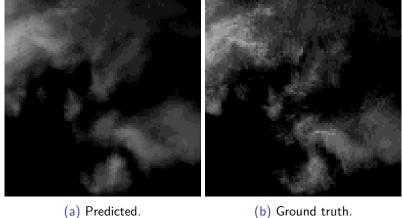


Interpolation Results



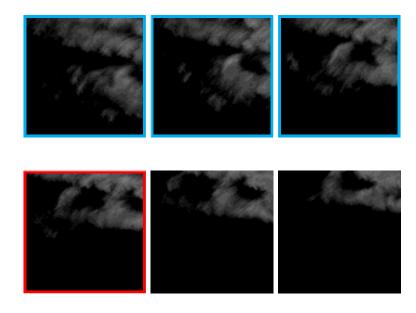


Interpolation Results

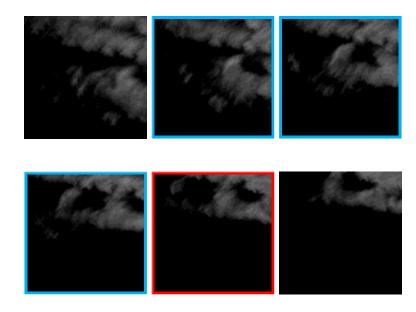


(b) Ground truth.

Extrapolation



Extrapolation



Extrapolation - Results

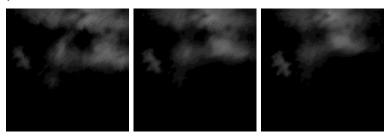


Figure 11: Predicted sequence.

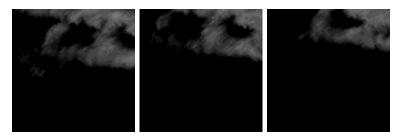
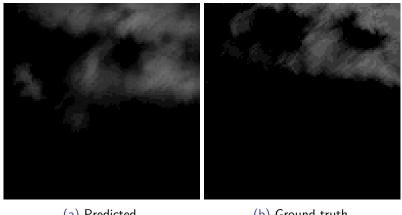


Figure 12: Ground truth sequence.

Extrapolation - Results



(a) Predicted.

(b) Ground truth.

Thank you for your attention!