

Swiss Road Accident Prediction

21643

Road Accidents (2017) [1]

230

Road Deaths (2017) [1]

3654

Seriously Injured (2017) [1]

Previous Work:

High classification accuracy for road accidents in Iowa for given road segments and times [0]

Our goals:

- Predict accident probability on swiss roads
 - Gain insight on factors influencing car accident probabilities
 - In particular, road layout
 - Investigate possibilities for real-time prediction

Model:

- Evaluate several models (e.g. Deep Learning, SVMs, Random Forests)
- Main datasets:
 - Swiss Road Accidents Dataset [1]
 - Weather Data (various sources)
 - Map data (OpenStreetMap)

[0] Predicting Traffic Accidents Through Heterogeneous Urban

Data: A Case Study, Yuan et al. (<http://urbcomp.ist.psu.edu/2017/papers/Predicting.pdf>)

[1] Unfalldaten der Schweiz - Bundesamt für Statistik (www.bfs.admin.ch)

Image right: [1]

