

Prediktions- och Scenariobaserad Trafikledning (POST)

Overview

Supply Real-time Demand (Network, road works, (OD, boundary flows) Traffic modeling incidents, control) Observations ssimilat **Traffic State** Offline processing Estimation **Automatic Traffic** Control Clustering (RM, VSL) fusion Traffic State Prediction Offline Pattern Incident Traffic modeling classification detection Action ranking **Traffic Management** Archiving Knowledge, actions Information, incentives Supply Scenario Demand Management Assessment Management

Scenario evaluation

First use case scenario evaluation:

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The aim of the project is to build a framework that enables efficient real-time scenario evaluation for traffic management decisions.

Existing components:

Supply modeling

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- Estimation/fusion
- Real-time macroscopic traffic model
- Short-term prediction _

Components in development:

- Clustering
- **Demand estimation**
- Type-of-day classification -
- Route set generation



Pattern 1

- Major incident on highway
- Classify/predict type of day
- Evaluate queue situation for different scenarios
- Input on how to inform travelers
- Evaluate how demand/route choice was affected

Route choice



Clustering



Effects of the spatio-temporal clustering





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