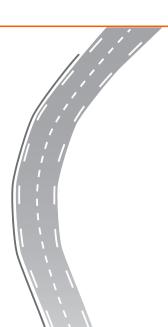
# **Course introduction**

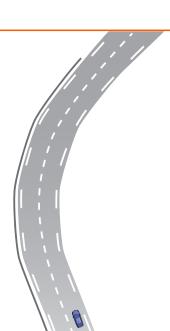
Sensor fusion & nonlinear filtering

Lars Hammarstrand

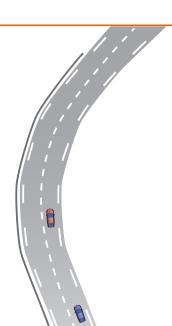
### Sensor fusion and (nonlinear) filtering



### Sensor fusion and (nonlinear) filtering



### Sensor fusion and (nonlinear) filtering



### Sensor fusion and (nonlinear) filtering

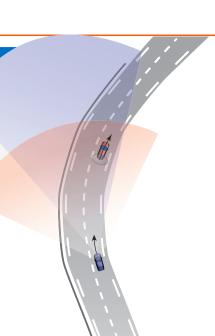
## Sensor fusion and (nonlinear) filtering

### Sensor fusion and (nonlinear) filtering

## Sensor fusion and (nonlinear) filtering

### Sensor fusion and (nonlinear) filtering

### Sensor fusion and (nonlinear) filtering



### Sensor fusion and (nonlinear) filtering

 Use a sequence of noisy observations from one or more sensors to better estimate some unknown quantity of interest (state) and associated uncertainty measures at the current time instance.

#### Note:

- In this course we will not consider the data association problem or handle multiple objects
- Although we will mainly give examples related to automotive applications, the theory and methods learned in this course are much more general than that!

