

Perceive with the classifier and directly observe facts

Lidar image  
(Streaming Data)

Facts of Time and Weather

Fact and Evidence Variables	Value
Time	Busy
Weather	Rainy
CarsDetected	True

Infer on query variables

Query Variables	Value	Probability
Crowded	True	0.995
	False	0.005
Cooperative	True	0.030
	False	0.970

## Perceptual Reasoning

Action	Observation
signal	False
signal	True
move	False
move	True
merge	N/A

Compute the initial state belief  $b$

## Interaction