554345 - Sensor fusion

Lecture: 3

Discrete-time state space model

Motion model: Xk=fk-, (Xk-1, qk-1) <=> P(Xk | Xk-1)

Measurement model: Yk= hk(Xk, rh) <=> P(yk | Xk)

where Xo~P(Xo)

Known input signal (uk)

Recursive filtering

C Measurement

P(xkly1:k)

Prediction

P(xkly1:k)

Motrol

Motrol