课时题 1.2.3

3.5.1 考虑离散时间永强.

$$x_k = x_{k-1} + v_k + \overline{v}_k$$

$$d_k = x_k$$

其中以是未知的输入偏差,请写出增了状态系统并确定该教法是否能观。

对于能观性的证明,需要

殿义等证
$$O' = N + U$$
 $C'A'$
 $C'A'^{N+U-1}$

N 矩阵A的缩,即AMM U为 dim(U) 解秩

以散材例5.1为例,

特系统想象为尽间中作一维直线运动的推车,则 A=1, B=1, 假设证=花+54, SEN(Q,W)

W/~N(0,Q'), Q'=[Q 0]

观测模型为:
$$Y_k = [C \ O] \times_k' + n_k$$

N+U-1=2+1-1=2

所以
$$A'=\begin{bmatrix}1\\0\end{bmatrix}$$
, $B'=\begin{bmatrix}1\\0\end{bmatrix}$. $C'=[1.0]$

$$0' = \begin{bmatrix} c' \\ c'A' \\ c'A'^2 \end{bmatrix} = \begin{bmatrix} c & 0 \\ cA & cB \\ cA^2 & CAB+CB \end{bmatrix} = \begin{bmatrix} 1 & 0 & 0 \\ 1 & 1 & 0 \\ 1 & 2 & 2 \end{bmatrix}, rank (0') = 3 = N+U$$

$$\chi_{k} = \chi_{k-1} + V_{k}$$

$$V_{k} = V_{k-1} + \alpha_{k}$$

$$\chi_{k} = A \times_{k-1} + B \times_{k} + W_{k}$$

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ā, 科·翰·伯差, 存在于其中一个测量方程, 写出增于状态系统并确定系统是否能观。

内点报牵为W=0.1, 外界想选一内点集(n=3)概率P=0.999.需要多少次 RANSAC 送代?