2022年10月19日 星期三 下午1:38

flote: lank at natura of the ind,

XI= FXI, TW+ WENNIORD) ESTA

Zt = Hxt VE, Vt ~ N(O, P) E M consume ment

= 14 (Fx=1+W+)+V+

= H Fx1-1 + HN+ + Vt

opt state var = NI(Xtit, Ptit), K=Ptit-1HT(HPtit-1HT+P)-1

Xtit = Xtit-1 +Kt (2t-1+xtit-1)

PEIE = PEIE-1 + (CHPEIE-1

derivation of $K: \begin{pmatrix} x \\ 2 \end{pmatrix} \sim N \left(\begin{pmatrix} M_{Y} \\ M_{Z} \end{pmatrix} \right) \left(\frac{\overline{Z}_{11}}{\overline{Z}_{12}} \frac{\overline{Z}_{12}}{\overline{Z}_{12}} \right)$

X((2=2)~ N(j, 2)

2 = Mx + Z1 \ \(\frac{2}{2}\) (2-Mz)

Andanouts Knowledge I

Stav = BESt, A+ Vt, Vt~N(0, Jv2) E Mcasurement

B=FB+1+Wt, Wt~N(0, Qt) = State

=. opt. state cov. = N(Ptit, Ptit).

where Btit = Btit-1+Kt (Strau - Sta Bt(t-1)

P+1+ = P+1+-1 - Strca* KP+1+-1

Kt= PEH-1 St, CA (St, CA PEH-1 St, CA + 502)-1

= Pt(t-1 St, CA / Pt(t-1)

St, CA · Pt(t-1) / Pt(t-1)

 $= \frac{S_{t,CA}}{S_{t,CA}^2} + \frac{\sigma_{\nu}^2}{S_{t,CA}^2} + \frac{\sigma_{\nu}^2}{S_{t,CA}^2} + \frac{\sigma_{\nu}^2}{S_{t,CA}^2} + \frac{\sigma_{\nu}^2}{S_{t,CA}^2}$

 $\frac{1}{1} + \frac{1}{1} = \frac{S_{t,cA}}{S_{t,cA}^2 + \gamma^{-1}}$

last formula an

(QEO.)

i. Bt (t = Bt++1 + St, CA - St, CA Bt++1)

 $= \beta_{t,t-1} \times 1 - \frac{S_{t,t-1}}{S_{t,t-1}} + \frac{S_{t,t-1}}{S_{t,t-1}} + \frac{S_{t,t-1}}{S_{t,t-1}}$ $= \left(1 - \frac{J_{t,t-1}}{S_{t,t-1}}\right) \beta_{t,t-1} + \frac{S_{t,t-1}}{S_{t,t-1}} + \frac{S_{t,t-1}}{S_{t,t-1}}$

if large 1 (514A), y -1 5mall, a -> a

: Beck = Strav

if 5well 8 (SNR), 8-1 (onge, 9 -> 0.

-. Beit = Btit-1

Ikalanam filter BEFE

6r use 0(5: StrAU = BSEGA + Dt, Dt ~ (10,02)

() 2011 - CR- Cook book winder of Bono.

At EDD- mydode l'ul claser then find resident

. Vt = Strau-BStrak record JV2.

 $\begin{cases} V_{\xi} > K g_{\lambda}^{\perp} \rightarrow + cA - AU \\ \leq K = 0.7, 1.2 \rightarrow ar 6.7 \text{ from ?} \end{cases}$

I de for OLSK Kalcon Filter, K=e.s.