6, tetel

Deterministikees modelleres

Dirleret - Johnstonas transformació

- Jament genjestes is valorez mintaveteret sorozaita alapjan: Z-transformáltal hanyadosa

Mintaveteli ido megvelustasa:

Pl. egystarolo's exetben
$$W(z) = \frac{b_n z^{-1}}{1 - a_n z^{-1}}$$

$$\alpha_1 = e^{-\frac{k}{T}} \quad (k \text{ a nimber-ido'}) \quad 1 - a_n z^{-1}$$

$$h \Rightarrow 0 \quad \text{eseten} \quad \alpha_1 \Rightarrow 1 \quad [0, 393...]$$
Vunnerikusan pontatlan lesz

Koltido Serelese:

Deterministiles renderer realizatasa:

$$w_{\ell} = \left(C^{T}\left(\frac{1}{2}q - A\right)^{-1}b + d\right)m_{\ell}$$

$$\overline{B(a)}$$

-6/1 - l

$$A(q)$$
 $A(q) = det(Iq - 4)$

Sztochantikus rendsrese modelleze'se:

$$y_{t} = G(\tilde{q}_{1}^{2}) u_{t} + H(\tilde{q}_{1}^{2}v) e_{t}$$
 $y_{0} = 0$
 $h_{0} = 1$

Idealis predikter:

$$\mathcal{E}_t = \mathcal{Y}_t - \hat{\mathcal{Y}}_t(\mathcal{P})$$

offin
$$V = \sum_{t=1}^{N} \beta(N_1 t) \mathcal{L}(L(q) \mathcal{E}_t) - \sum_{t=1}^{N} \beta(N_1 t) \mathcal{L}(L(q) \mathcal{E}_t)$$

d: tavolsag friggreny

p: sulyonas

L(q): scuss

Sztocharetikus modeller:

ARX:
$$A(q)g_t = B(q)M_t + e_t$$
 $M_t = B(q)M_t + A_{lan} + A_{lan$

ARMAX:
$$A(q) y_{4} = B(q) u_{4} + C(q) e_{4}$$

$$C(q) = 1 + c_{1}q^{2} + c_{2}q^{2} + ...$$

$$y_{4} = \frac{B}{A} u_{4} + \frac{C}{A} e_{4}$$

$$\hat{x}_{t} = Du_{t} + (\tilde{c} - \tilde{A})x_{t} - \hat{c}x_{t}$$

lezdoertel-

$$A(q) w_{t} = B(q) u_{t} + 1 Q_{t} e_{t}$$

$$w_{t} = A u_{t} + 1 Q_{t}$$

$$w_{t} = A u_{t$$

OE:
$$u_{\xi t} = \frac{B(\alpha r)}{F(\alpha r)} u_{\xi t} + e_{\xi t}$$
 $\Rightarrow u_{\xi t} = \frac{B}{F} \cdot u_{\xi t}$

BJ:
$$w_t = \frac{D(\alpha)}{F(\alpha)} u_t + \frac{C(\alpha)}{D(\alpha)} e_t$$

GBJ:
$$A(qr)S_{+} = \frac{B(qr)}{F(qr)}u_{+} + \frac{Cqr}{D(qr)}e_{+}$$

Sitochasithus realizacionelenelet:

$$x_{t+1} = A x_{t} + a_{t}$$
 $x_{t+1} = A x_{t} + a_{t}$
 $x_{t} = C x_{t}$
 $x_{t} = C x_{t}$

Allor megoldhato, ha feltesrät, hogy

$$w_t = \ell_t$$
 $w_t = K \ell_t$