Assignment Corasto Cts Exam Help Single Equation Models of Multiple Time Series

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- y_t is **trend stationary** because if we take the trend out the new process is stationary. We return to deterministic and stochastic trends next week.
- De-thttps://powcoder.com

Add $W^y = Q_y^y = A_0 + y_y + C_0 + C_0$

 \bullet \widetilde{y}_t is an ARMA(1,0)

ARDL(p, l, s) with trend

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Where.

$$\gamma(L) = (\gamma_0 + \gamma_1 L + \gamma_2 L^2 - ... + \gamma_q L^q) = \sum_{j=0}^q \gamma_j L^j$$
 $\lambda(L) = dd\lambda_1 We hat_m powerfold$

 $\lambda(L)$ Add λ_1 WeChat, powcoder

Adding a deterministic trend

$$\theta(L)c_t = \delta_0 + \delta_1 t + \gamma(L)a_t + \lambda(L)y_t + \varepsilon_t$$

The ARDL Family of Models

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1. Static Regression: 

y_t = \delta + \mathbf{n} \mathbf{n} \mathbf{n} \mathbf{p} \mathbf{s} / PO WCCOULET+GUIDE; 

Restrictions: a_1 = 0; \theta_1 = 0 2. First order autoregressive 

WCCOULET+GUIDE; 

Restrictions: \theta_0 = 0; \theta_1 = 0 3. Leading indicators with \theta_1 = 0 4. Equation in first differences: y_t = \delta + \theta_1 x_{t-1} + \varepsilon_t; 

Restrictions: a_1 = 0; \theta_0 = 0 Restrictions: a_1 = 1, \theta_0 = -\theta_1
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The ARDL Family of Models-II

$$y_t = \delta + a_1 y_{t-1} + \theta_0 x_t + \theta_1 x_{t-1} + \varepsilon_t$$

 $y_t = \delta + \theta_0 x_t + \theta_1 x_{t-1} + \varepsilon_t$

Restrictions: $a_1 = 0$

Restrictions: $\theta_1 = 0$

7. Dead 14tp Set / POW Coder Com information on y):

 $y_t = \delta + a_1 y_{t-1} + \theta_1 x_{t-1} + \varepsilon_t$

$$y_t =$$

Restrictions: $\theta_0 = 0$

 $\begin{array}{c} \mathbf{0} \\ \mathbf{WeC} \\ \mathbf{Retict} \\ \mathbf{0} \\ \mathbf$

9. Error Correction Mechanism:

$$\Delta y_t = \delta + \alpha (y_{t-1} - \beta x_{t-1}) + \theta_0 \Delta x_t + \varepsilon_t$$

where,
$$\beta = \frac{(\theta_1 + \theta_0)}{(1 - a_1)}$$
; $\alpha = a_1 - 1$

This is a re-arrangement of the ARDL equation.

Multipliers

Immediate Response or Impact Multiplier

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② The Effect after one period, two periods, ...

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Long-run multiplier

$$LRM = \frac{\gamma(1)}{\theta(1)} = \frac{(\gamma_0 + \gamma_1 + \gamma_2 + \dots + \gamma_p)}{(1 - \theta_1 - \theta_2 - \dots - \theta_p)}$$