

(A)

Dynamic Model

Regime 1:

$$\eta(t+1) = \phi_1 \times \eta(t) + w_1(t)$$

Regime 2:

$$\eta(t+1) = \phi_2 \times \eta(t) + w_1(t)$$

Measurement Model

Regime 1:

$$iEMG = 0 \times \text{SelfReport} + \mu_1 + \eta$$

Regime 2:

$$iEMG = \beta_2 \times \text{SelfReport} + \mu_2 + \eta$$