Omitted Variable Bias (造稿支統偏誤)

廖介面来有某一解释变拟 會使迴歸結果產生偏談

$$y = \rho_0 + \rho_1 x_1 + \rho_2 x_2 + u \quad (E^2)$$

$$y = \rho_0 + \rho_1 x_1 + u' \quad (J^2) x_2$$

此時估計結果 产 = 户十户2分 bias

$$\frac{\sqrt[4]{8}}{\sqrt[4]{2}} \approx \frac{\sqrt{2}}{\sqrt{2}} = \sqrt{2} + \sqrt{2} + \sqrt{2} + \sqrt{2}$$

$$Y = \rho_0 + \rho_1 \times_1 + \rho_2 (\delta_0 + \delta_1 \times_1 + \sigma) + \alpha$$

$$= \left[ \frac{\beta_1 + \beta_2 \delta_1}{\delta_1 + \beta_2 \delta_1} \right] \times_1 + \left[ \frac{\beta_1 + \beta_2 \delta_1}{\delta_1 + \beta_2 \delta_1} \right] \times_1 + \left[ \frac{\beta_1 + \beta_2 \delta_1}{\delta_1 + \beta_2 \delta_1} \right]$$

处被多略, 它的效果含 起到礼, 造成礼传救届韵

(正理) sure= … +(1): sleep +(10) study +…

- Sleep +1 score

steep -9 study score

Collinearity (支部性)

Y= po+pox1 + pox2+ ..... + u

 $Se(\hat{p}_1) \iff Var(\hat{p}_1) = -$ 

(standard error)

(= N var(p))

把以对处…xx能延蹄

農教教大田 VIF = 1-R12 (Variance inflation factor)

· 如果 对, 以, 23……存在一部投图备

會使知效如此學學, Ri→1,以中的 地就是 se(介)→20 → 連歸模型失亂

· 如果成為,使VIF>10 (multicollinearity)

麦多夏敬被敌大10倍,五不可接受

(八一般可接多样草⇒ VIF<10)