

Übung 11: Aufgaben, Chapter 11

1. In considering various models and their properties discuss the problem of the Maximum Likelihood estimation method with the Gauss-Markov assumptions and discuss the possibility of the sufficiency of the observations (if possible).

Answer: It can be proved to verify the sufficiency of the model:

$$y_1 = \alpha_0 + \alpha_1 x_1 + \alpha_2 x_2 + \epsilon_1$$

$$y_2 = \alpha_0 + \alpha_1 x_2 + \alpha_2 x_1 + \epsilon_2$$

where ϵ_1, ϵ_2 are independent random variables with the properties: $E(\epsilon_1) = E(\epsilon_2) = 0$, $\text{Var}(\epsilon_1) = \text{Var}(\epsilon_2) = \sigma^2$, $\text{Cov}(\epsilon_1, \epsilon_2) = 0$. In addition $E(x_1) = 0$ and $E(x_2) = 0$.

a. What are the sufficient $\alpha_0, \alpha_1, \alpha_2$ and ϵ_1, ϵ_2 for this model? (if possible)

Answer: It can be proved, by taking the covariance matrix as:

$$\text{Cov}(y_1, y_2) = \sigma^2$$

It can also be proved to verify $E(y_1) = E(y_2) = 0$.

b. Is there an efficient estimator? If not, how would you proceed? (if possible)

a. Suppose that a general conclusion should be applied to the best linear unbiased estimator (BLUE) in the Gauss-Markov model. Then the best linear unbiased estimator of the parameter α_0 is the same as the best linear unbiased estimator of the parameter α_1 and the same as the best linear unbiased estimator of the parameter α_2 . (if not, how would you proceed?) (if possible)

Answer: It can be proved to verify:

$$E(y_1) = E(y_2) = 0$$

$$\text{Cov}(y_1, y_2) = \sigma^2$$

$$\text{Cov}(y_1, y_1) = \sigma^2$$

where ϵ_1, ϵ_2 are independent random variables with the properties: $E(\epsilon_1) = E(\epsilon_2) = 0$, $\text{Var}(\epsilon_1) = \text{Var}(\epsilon_2) = \sigma^2$, $\text{Cov}(\epsilon_1, \epsilon_2) = 0$.

and $E(x_1) = 0$ and $E(x_2) = 0$. In addition $E(y_1) = E(y_2) = 0$.

$$\text{Cov}(y_1, y_2) = \sigma^2$$

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