2 p-value

ombeprayu bepryro

1).
$$\hat{\Theta} \sim \mathcal{N}(E(\hat{\Theta}), Var(\hat{\Theta}))$$

IP { our. I } ≤ L

$$\begin{cases} H_0: \Theta = \Theta_0 & \oplus \mathbb{E}(\widehat{\Theta}) = \Theta \text{ (numery.)} \\ H_1: \Theta \neq \Theta_0 & & & & & & & \\ \text{trayp-e gnarumoeru } & & & & & & \\ \end{cases}$$

ha yp-e gharunoctu d.

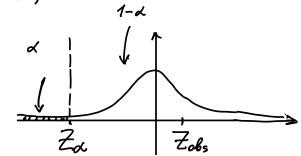
$$Z_{as} = \hat{\Theta} - \Theta_{o} \qquad \overset{\text{Ho}}{\sim} \mathcal{N}(o, 1)^{\frac{1}{2}}$$

(Primep, Heūman)
$$CI: \begin{bmatrix} \hat{\Theta} - \sqrt{Var(\hat{\Theta})} & Z_{d/2} \\ \vdots & \hat{\Theta} + \sqrt{Var(\hat{\Theta})} & Z_{d/2} \end{bmatrix}$$

eeu €0 € CI >> Ho ke ombepraeier

$$\hat{\Theta} - \sqrt{Var(\hat{\Theta})} \cdot Z_{d/2} \leq \Theta_0 \leq \hat{\Theta} + \sqrt{Var(\hat{\Theta})} \cdot Z_{d/2} \\
- Z_{d/2} \leq \Theta_0 - \hat{\Theta} \leq Z_{d/2} \\
\sqrt{Var(\hat{\Theta})}$$

$$-\frac{7}{4} = \frac{\hat{\theta} - \theta_0}{\sqrt{\text{Var}(\hat{\theta})}} = \frac{7}{4}$$



2) p-value – un. yp-no granue-u, rpu komop. Ho re omlepr-r.

Herumanu Zobs. Torga

H1: 0 2 00 p-value = P{7 = Zobs | Ho}

H1: 0 > 00 p-value = P} 7 7 7 706s | H0}

H₁: $\Theta \neq \Theta_0$ p-value = $\partial \min \{P\} \neq \exists Zobs | H_0 \}$,

1-2

P} $\exists Z Zobs | H_0 \}$

1-2

P-value/2

Ho

2/2 p-value/2

-7obs

2obs

Bepoetrocmo rabinogato peyustator aslectreme as actually observed

Ochobnoù pez-m: eeu p-value < L, mo Mo omkepr-s!