

Проверка гипотез о совпадении средних двух нормальных совокупностей.

Kputepui Ctoisgeura
$$\vec{X} \in \mathcal{N}_{\alpha_{1},0^{2}} \quad \vec{Y} \in \mathcal{N}_{\alpha_{2},0^{2}}$$
Early y Burtopok guenepeur cobnary, to moneus inpolepino cobnageure net oncugarin Ho= $\{\alpha_{1}=\alpha_{2}\}$ 1) $n\frac{\vec{S}(\vec{X})}{\vec{S}^{2}} \in \mathcal{X}_{m-1}^{2}$ $\frac{m\vec{S}(\vec{Y})}{\vec{S}^{2}} \in \mathcal{X}_{m-1}^{2}$ $\frac{m\vec{S}(\vec{Y})}{\vec{S}^{2}} \in \mathcal{X}_{m-1}^{2}$ $\frac{m\vec{S}(\vec{Y})}{\vec{S}^{2}} \in \mathcal{X}_{m+m-2}^{2}$ min $\vec{X} \in \mathcal{N}_{\alpha_{1},0^{2}}$ $\vec{Y} \in \mathcal{N}_{\alpha_{1},0^{2}}$ $\vec{Y} \in \mathcal{N}_{\alpha_{1},0^{2}}$ $\vec{Y} \in \mathcal{N}_{\alpha_{1},0^{2}}$ $\vec{Y} \in \mathcal{N}_{\alpha_{1},0^{2}}$ $\vec{X} \in \mathcal{N}_{\alpha_{1},\alpha_{2}}$ $\vec{Y} \in \mathcal{N}_{\alpha_{1},\alpha_{2}}$

$$\overline{X} - \overline{Y} \in N_{\alpha_1 - \alpha_2}, \underline{\sigma}^2 + \underline{\sigma}^2 \qquad Craugap Tusyen: \underline{(\overline{X} - \overline{Y}) - (\alpha_1 - \alpha_2)} \in N_{0,1}$$

$$\overline{(\overline{X} - \overline{Y}) - (\alpha_1 - \alpha_2)} \qquad \overline{(\overline{S}^2(n + m - 2))} \in T_{n+m-2}$$

$$\overline{(\overline{X} - \overline{Y}) - (\alpha_1 - \alpha_2)} \qquad \overline{(\overline{S}^2(x) + mS^2(x))} \in T_{n+m-2}$$

$$d_{T} = \frac{(X-Y) \sqrt{nm} \sqrt{n+m+2}}{\sqrt{n+m} \sqrt{n} S(X) + mS^{2}(Y)} \in T_{n+m-2} \text{ hpu bepuan lo}$$

$$S = \begin{cases} 0, |d\tau| < t_{1-\frac{\epsilon}{2}} \\ 1, |d\tau| > t_{1-\frac{\epsilon}{2}} \end{cases}$$
 - Kputepuû Ctougeuta

miro

COTOSTENSWOTS:

$$d = \frac{\sqrt{n_{m}}}{\sqrt{n+m}} \frac{(\overline{X} - \overline{Y}) \sqrt{n+m-2}}{\sqrt{N S^{2}(X) + m S^{2}(Y)}} \xrightarrow{h \to \infty} 00$$

$$(\overline{X} - \overline{Y}) \xrightarrow{h \to \infty} const$$

$$= \frac{\sqrt{N}}{\sqrt{N}} \frac{N}{\sqrt{N}} \frac{\sqrt{N}}{\sqrt{N}} \frac{N}{\sqrt{N}} \frac{\sqrt{N}}{\sqrt{N}} \frac{\sqrt{N}}{\sqrt{N}} \frac{\sqrt{N}}{\sqrt{N}} \frac{\sqrt{N}}{\sqrt{N}} \frac{\sqrt{N}}{\sqrt{N}} \frac{\sqrt{N}}$$