18·解: Xiいんい,0.3°, 且 X1, X2-- X10相互独立

· リージョントロット 且リッターリル相互独立

Z yi'= 1 Z Xi' ~ X'C10)

P = 1 - P = 1 - 1 = P = 0.32 = X12 N b] = 1 - P = 0.1 = 0.1

: xi-t up(0,1), i=1, 2 -- n

1 2 (x; -p) ~ X2(n)

 $2Y = \frac{1}{2}(x_1 - \mu)^2 = \frac{1}{\sigma^2} \frac{1}{2}(x_1 - \mu)^2 \frac{1}{2\sigma^2} \frac{1}{2\sigma^2$

30.辞 Xi 5 N (2017), i=1,2··6 且相互独立

:. X1+ X2+ X3 ~ NCO.3) Xb+X5+X6 - NW.3)

(x,+x+xy) + (xp+x5+x6) ~ x cm

=) C= 1/3

$$\frac{1}{\sqrt{\frac{2}{n!}}} \frac{1}{\sqrt{m\sigma}} = \frac{1}{\sqrt{\frac{2}{m}}} \frac{1}{\sqrt{m\sigma}} = \frac{1}{\sqrt{\frac{2}{m}}} \frac{1}{\sqrt{m}} \frac{1}{\sqrt{m}} = \frac{1}{\sqrt{m}} \frac{1}{\sqrt{m}} \frac{1}{\sqrt{m}} \frac{1}{\sqrt{m}} = \frac{1}{\sqrt{m}} \frac{1}{\sqrt{m}} \frac{1}{\sqrt{m}} \frac{1}{\sqrt{m}} = \frac{1}{\sqrt{m}} \frac{1}{\sqrt{m}}$$

42. IZAB

$$P = \left(F_{1-d(1)n} \right) \le t \le \left(F_{1-d(1)n} \right) \le t \le$$

7. 笑话估计:

表象+(x,e)=
$$\{e^{x-e^{-1}}, x>1\}$$
 =) $P=E(x)=\rho\int_{1}^{+\infty} x \cdot x^{-e^{-1}} dx = e^{-1}$

极大似然伤计

$$\frac{d \, m \, L(e)}{d \, e} = \frac{n}{e} - \frac{n}{\xi_{i}} \, m \, x_{i} = 0 \qquad \Rightarrow \quad P = \frac{n}{\xi_{i}} \, m \, x_{i}$$

$$\frac{1}{2} \frac{1}{2} \frac{1}$$

$$\exists \hat{\beta} = max \} 1, \frac{n}{\sum_{i=1}^{n} 2mx_i}$$

$$P = max \left\{ 1, \frac{n}{2mxi} \right\}$$

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$$\Rightarrow mL(e) = nme - ne(x-d) (x_1, -x_n)d$$

$$\frac{d m U(e)}{d e} = \frac{h}{e} - n(\bar{x} - d) \qquad \Rightarrow \quad \hat{\rho} = \frac{1}{\bar{x} - d}$$

似然函数
$$(-\frac{1}{20i}[\frac{n_1+n_2}{2}(-\frac{1}{20i}[\frac{n_1}{2}(x_1-\mu_1)^2+\frac{n_2}{2}(y_1-\mu_2)^2])$$

$$\frac{\partial mL}{\partial m} = \frac{n_1}{\sigma^2} (\bar{x} - \mu_1)$$

$$\frac{\partial ml}{\partial (\sigma')} = -\frac{n_1 + n_2}{2\sigma^l} + \frac{1}{2\sigma^l} \left[\sum_{j=1}^{n} (x_j - \mu_1) + \sum_{j=1}^{m} (y_j - \mu_2) \right]$$

$$\widehat{A} = \overline{X} , \widehat{A} = \overline{Y} , \widehat{S} = \frac{1}{n+m} \left[\frac{n}{2} (X_i - \overline{X})^2 + \frac{n}{2} (Y_i - \overline{Y})^2 \right]$$

WAA.

$$E(Tn) = \frac{2}{h(n+1)} \frac{h}{\sum_{i=1}^{n} E(x_i) = h}$$

$$Var(Tn) = \frac{4}{n(n+1)^2} \frac{h}{\sum_{i=1}^{n} Var(x_i)}$$

$$=\frac{4\sigma^2}{n'(n+1)^2}\sum_{i=1}^{n}i^2=\frac{4\sigma^2}{n'(n+1)^2}\cdot\frac{n(n+1)(2m+1)}{b}=\frac{2(2m+1)}{3n(n+1)}\sigma^2$$

Cheby sher 加美式

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