

班级: 计 01 姓名: 总总制 编号: 2020010名9 科目: 统计 第 1 页

表記が中
$$\pi(\theta) = 1$$

取信差度函数 $h(x,\theta) = f(x(0),\pi(0)) = (\frac{10}{5})\theta^{3}(1-\theta)^{10-3}$
由此知信驻分布的速度函数 $\pi(\theta|x) = \frac{h(x,\theta)}{\int_{0}^{1}(x,\theta)d\theta} = \frac{(\frac{10}{5})\theta^{3}(1-\theta)^{10-3}}{(\frac{10}{5})\theta^{3}(1-\theta)^{10-3}dx} = \frac{0^{3}(1-0)^{10-3}}{B(x+1,11-3)}, \theta \in (\infty)$
 $e(x) = 2, f(x) = \frac{\theta^{2}(1-\theta)^{8}}{B(3,9)}$

$$\{X_1, X_2 \cdots X_n \ A_n \land A_$$

$$\lambda = \frac{\lambda(x,\lambda)}{\int h(x,\lambda)d\lambda} = \frac{\lambda(x,\lambda)}{\int h(x,\lambda)d\lambda} = \frac{e^{-\lambda(n,x+1)/s} \int n\overline{x} + \alpha - 1}{\int h(x,\lambda)d\lambda} = \frac{e^{-\lambda(n,x+1)/s} \int n\overline{x} + \alpha - 1}{\int h(x,\lambda)d\lambda} = \frac{e^{-\lambda(n,x+1)/s} \int n\overline{x} + \alpha - 1}{\int h(x,\lambda)d\lambda} = \frac{e^{-\lambda - \frac{s}{2}} \int h\overline{x} + \alpha}{(n,x+1)} = \frac{e^{-\lambda - \frac{s}{2}} \int h\overline{x} + \alpha}{(n,x$$

月、11.2 存本版从正を分布
$$N(\overline{X}, \sigma^2)$$
 , $\frac{5d}{\Sigma(X_1-\theta)^2}$
 $f(X|\theta) = \frac{1}{(2\pi)^N \sigma^2} \cdot e^{-\frac{1}{2\sigma^2}}$
由于 $\frac{\Sigma}{K} (X_1-\theta)^2 = \frac{\Sigma}{K} (X_1-\overline{X})^2 + n(\theta-\overline{X})^2$, \overline{X} 失注帝の的说,有:
 $f(X(\theta)) \propto e^{-\frac{1}{2\sigma^2}} \frac{(\theta-\overline{X})^2}{n(\theta-\overline{X})^2} \cdot e^{-\frac{(\theta-\overline{X})^2}{2\sigma^2}} \propto e^{-\frac{(\theta-\overline{X})^2}{n^2 + \sigma^2}}$
東 $\pi(\theta|X) \propto f(X|\theta) \cdot \pi(\theta) \propto e^{-\frac{(\theta-\overline{X})^2}{2\sigma^2}} - \frac{(\theta-\overline{X})^2}{2\sigma^2} = e^{-\frac{(\theta-\overline{X})^2}{n^2 + \sigma^2}}$

$$\frac{\pi}{\sqrt{2}} = \frac{n v^2 \bar{x}^2 + n^2 \sigma^2}{n v^2 + \sigma^2} = 1.98 , \quad v_{post} = \frac{\sigma^2 v^2}{h v^2 + \sigma^2} = 0.00 \text{ (4)}$$

即 后题方布 ~ N(1.98, 0.00431)