

- $\overline{R}_n = \frac{\sum_{i=1}^n R_i}{n}$ is function of the random variables R_i , and hence is random.
- n is the sample size, a deterministic number.
- $q_{\alpha/2}$ is a number given a fixed α , hence deterministic.
- p is the unknown parameter, a number, hence deterministic.

Remark 1: Once we substitute a realization for \overline{R}_n (e.g. from data), the expression $\left[\overline{R}_n - \frac{q_{\alpha/2}\sqrt{p(1-p)}}{\sqrt{n}}, \overline{R}_n + \frac{q_{\alpha/2}\sqrt{p(1-p)}}{\sqrt{n}}\right] \ni p$ becomes deterministic since all involved quantities are deterministic.

Remark 2: The unknown parameter p is deterministic in the classical (frequentist) approach. In the course 6.431x, *Probability-the Science of Uncertainty and Data*, we have seen that in the Bayesian approach, p is modeled as a random variable. We will revisit Bayesian statistics from a different perspective later in this course.

提交

你已经尝试了2次（总共可以尝试2次）

 Answers are displayed within the problem

讨论

显示讨论

主题： Unit 2 Foundation of Inference:Lecture 4: Parametric Estimation and Confidence Intervals / 8.
Confidence Intervals

认证证书是什么？