Hypothesis Testing: Part I

1. Preliminaries

Definition of Terms

- Hypothesis: a statement about a population parameter. The goal of a hypothesis test is to decide, based on a sample from the population, which of two complementary hypotheses is true.
- Null hypothesis and alternative hypothesis: the two complementary hypotheses in a hypothesis testing problem.

If θ denotes a population parameter, the general format of the null and alternative hypotheses is $H_0: \theta \in \Theta_0$ and $H_1: \theta \in \Theta_0^c$ where Θ_0 is some subset of the parameter space and $\Theta_0^c \equiv \Theta_1$ is its complement. Furthermore, Θ_0 is called the null parameter space while Θ_1 is called the alternative parameter space.

 Hypothesis testing procedure or hypothesis test; a rule that specifies (i) for which sample values the decision is made to accept H₀ as true and (ii) for which sample values H₀ is rejected and H₁ is accepted as true.

Note: "Accepting" a hypothesis simply means that we do not have enough evidence to conclude otherwise and thus, we cannot reject it. Hence, it may be more appropriate to say that we "do not reject" a hypothesis.

- Critical/rejection region: the subset of the sample space for which H₀ will be rejected
- Acceptance region: the complement of the critical region
- Test statistic: a statistic whose observed value determines whether to reject or not reject
 H₀. This is due to the fact that the critical region and the acceptance region are formed by
 dividing the sampling distribution of the test statistic into two complementary portions.

In the next section, likelihood ratio tests are discussed as one method of finding/constructing hypothesis tests. We focus on this first and as we go into the methods of evaluating tests, we discover another method of constructing a hypothesis test by using a particular lemma.

Constructing Tests: (focus on Likelihood Ratio Tests)

Recall: Given a random sample from a parent distribution $f(x|\theta)$ (where θ can be a vector), the likelihood function is defined by

$$L(\theta|\underline{x}) = f(\underline{x}|\theta) = \prod_{i=1}^n f(x_i|\theta)$$

Let Θ denote the parameter space.

Def. The likelihood ratio test statistic for testing $H_0: \theta \in \Theta_0$ versus $H_1: \theta \in \Theta_0^c$ is

$$\lambda(\underline{x}) = \frac{\sup_{\Theta_0} L(\theta|\underline{x})}{\sup_{\Theta} L(\theta|\underline{x})}$$

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Victor M. Corman

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Asking Questions in Biology Christopher J. Barnard,2009 Asking Questions in Biology Peter Mcgregor, Chris Barnard, Francis Gilbert, 2016-11-17 Asking and answering questions is the cornerstone of science yet formal training in understanding this key process is often overlooked Asking Questions in Biology unpacks this crucial process of enquiry from a biological perspective at its various stages. The full text downloaded to your computer With eBooks you can search for key concepts words and phrases make highlights and notes as you study share your notes with friends eBooks are downloaded to your computer and accessible either offline through the Bookshelf available as a free download available online and also via the iPad and Android apps Upon purchase you ll gain instant access to this eBook Time limit The eBooks products do not have an expiry date You will continue to access your digital ebook products whilst you have your Bookshelf installed

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