

Bayesian Sample Size Determination For Binomial Proportions

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Bayesian Sample Size Determination For

case of Bayesian sample size determination, the marginal or prior-predictive distribution is used which is the mixture of the sampling distribution of the data and the prior distribution of the unknown parameters (M'lan et al.,

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2008). In this context, the minimal sample size determination using three different Bayesian approaches

Contrast of Bayesian and Classical Sample Size Determination

Bayesian sample-size determination methods are becoming increasingly more popular in clinical trials because of their flexibility and easy interpretation inferences. Recently, Bayesian approaches have been used to determine the sample size of a single Poisson rate parameter in a clinical trial setting. In this paper, we extend these results to the comparison of two Poisson rates and develop methods for sample-size determination for hypothesis testing in a Bayesian context.

Bayesian sample-size determination for two independent ...

Calculate the Bayesian average power for each sample size combination, which is obtained as $1 - B \sum l = 1 - B p l$. 3. Fit a curve or surface through the G Bayesian

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power values and find an adequate sample size combination for the desired power. In the case of one NGS test, steps 2 (i)-2 (iii) need to be altered.

A Bayesian approach to sample size determination for ...

As the sample size goes up, impact of this prior belief is minimized. A common method in Bayesian inference is to use the uninformed prior. This means that we are assuming equal likelihood for all the events. For a binomial distribution we can use beta distribution to model our prior belief.

Reliability/Sample Size Calculation Based on Bayesian ...

In the inferential Bayesian methods of sample size determination, we are solely concerned with the inference about the parameter (s) of interest. The fully Bayesian or decision theoretic approach treats the problem as a decision problem and employs a loss or utility function.

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Bayesian techniques for sample size determination in ...

Based on the Bayesian sample size determination approach proposed by Wang and Gelfand (2002), which is a simulation-based approach, two sets of priors are considered. The first set is called the “fitting” or “analysis” priors which are used for analyzing data.

Bayesian Sample size Determination for Longitudinal ...

Bayesian sample size determination for estimating binomial parameters from data subject to misclassification Elham Rahme Lawrence Josephy Theresa W. Gyorkosz November 29, 1999 Summary We investigate the sample size problem when a binomial parameter is to be estimated, but some degree of misclassification is possible.

Bayesian sample size determination for estimating binomial ...

nQuery case study - Bayesian statistics: See how frequentist benefit from

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nQuery's Bayesian module. nQuery is the #1 sample size software of choice for researchers who want to conduct sample size and Bayesian sample size determination. 20+ Years helping statisticians with 50K+ users.

Bayesian sample size determination - bayesian statistics

imperfect tests, and apply several different criteria for Bayesian sample size determination to the design of such studies. We consider both disease prevalence studies and studies designed to estimate the sensitivity and specificity of diagnostic tests. As the problem is typically nonidentifiable, we investigate the

Bayesian sample size determination for prevalence and ...

Bayesian Sample Size Determination99 models and for a given choice criterion, we search for the minimal number of observations for which the correct model is likely to be selected. For details on

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this topic, see, among others, Weiss (1997), Wang and Gelfand (2002) and De Santis (2004). 2.2.

Using historical data for Bayesian sample size determination

In each case the problem is to choose a sample size while taking into account the consequences of wrong decisions about the hypothesis that is under test. To choose a sample size is to make a decision. A full Bayesian approach to decision-making requires the specification of probability distributions for both the data and the unknown parameters, a list of possible actions, the losses that are consequent on wrong actions and the cost of sampling.

A Bayesian method of sample size determination with ...

Sample size determination (SSD) is a crucial component in the design of experiments and clinical trials. There is a substantial literature on frequentist SSD approaches (Kraemer and Thiemann

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1987, Cohen 1988, Desu and Raghavarao 1990). The two issues of The Statistician(44 (2) 1995, 46 (2) 1997) presented a summary of the work on Bayesian SSD.

Comparison of Bayesian Sample Size Criteria: ACC, ALC, and WOC

Bayesian Sample Size Determination for Prevalence and Diagnostic Test Studies in the Absence of a Gold Standard Test. Nandini Dendukuri. Corresponding Author. Department of Epidemiology and Biostatistics, 1020 Pine Avenue West, McGill University, Montreal, Québec H3A 1A2, Canada.

Bayesian Sample Size Determination for Prevalence and ...

Sample size determination for Bayesian analysis of small n sequential, multiple assignment, randomized trials (snSMARTs) with three agents J Biopharm Stat. 2020 Sep 6;1-12. doi: 10.1080/10543406.2020.1815032. Online ahead of print. Authors Boxian

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Wei 1 ...

Sample size determination for Bayesian analysis of small n ...

3 Description of sample size determination algorithm. The sample size determination method uses a Monte Carlo simulation approach to generate data randomly selected from the design priors for a fixed n and to analyze the data using the proposed model. This is repeated for multiple sample sizes and in most cases the smallest sample size for which some optimality criteria has been achieved is selected as the preferred sample size.

Bayesian sample size determination for cost-effectiveness ...

In determining sample sizes in intervention research, a Bayesian framework offers certain advantages. Differing from the more common frequentist perspective on probability, a Bayesian perspective incorporates data from prior studies into the design and

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development process.

A Bayesian Approach to Sample Size Estimation and the ...

This article considers sample size determination methods based on Bayesian credible intervals for θ , an unknown real-valued parameter of interest. We assume that credible intervals are used to establish whether θ belongs to an indifference region.

CMU Statistics

Bayesian methods were used to obtain a sample size in a trial comparing intravenous immunoglobulin and plasmapheresis in treating Guillain-Barré syndrome in children. 21 The authors showed that using standard methods to obtain a sample size for their noninferiority design would have required a sample size beyond what was reasonably feasible.

Standard 4: Determining Adequate

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Sample Sizes | American ...

The results indicate that the sample size obtained using the Bayesian approach differs from the traditional sample size obtained by a constant inflation factor, which is purely determined by the size of the pilot study. An example is given for illustration purposes.

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