

Nonparametric Bayesian Estimation of the Ratio of Two Exponential Means

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Abstract

In the past, there have been computational difficulties with the model which adapted the Dirichlet process prior. However, using the MCMC, computational difficulties can be solved.

In this paper, the populations of interest is the ratio of two exponential populations. The Dirichlet process prior is used to provide a nonparametric Bayesian estimate of a ratio of two means. The proposed procedure is applied to some real and artificial examples, and compare it with classical estimator.