Bayesian Methods in Health Economics

Health economics is concerned with the study of the cost-effectiveness of health care interventions. This book provides an overview of Bayesian methods for the analysis of health economic data. After an introduction to the basic economic concepts and methods of evaluation, it presents Bayesian statistics using minimal mathematics. The next chapters describe cost-effectiveness analysis from a statistical viewpoint, and Bayesian computation, notably MCMC. The final chapter presents three detailed case studies covering cost-effectiveness analyses using individual data from clinical trials, evidence synthesis and hierarchical models and Markov models. The text uses WinBUGS and JAGS, with datasets and code available online.

Features

- Provides an overview of Bayesian methods for cost-effectiveness analysis

- Includes all necessary background on economics and Bayesian statistics

- Covers the use of WinBUGS/JAGS for the analyses

- Presents three detailed case studies of the cost-effectiveness analysis of health care interventions

- Offers datasets and code for download

Author
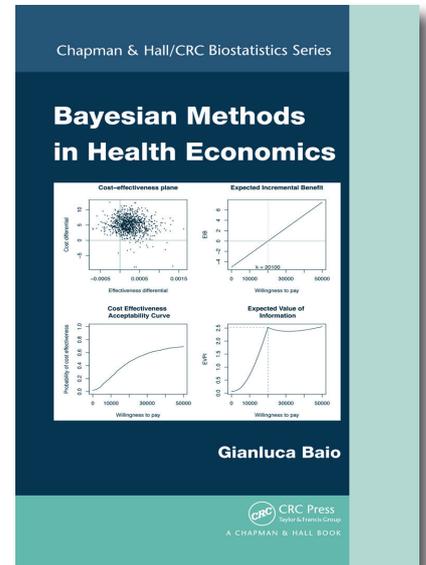
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