Applied Bayesian Data Analysis in Exercise and Health Research

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Message from the Guest Editors

Bayesian data analysis is already a well-established method of statistical inference in many different fields of science such as psychology, ecology, economy or medicine. The increasing power of computers and the development of multiple programming languages specially designed to specify statistical models have allowed researchers to use Bayesian methods to analyze their data. Briefly, this methodology uses Bayes' theorem to compute and update probabilities after observing new data.

There are several benefits that can be obtained using this method of statistical inference, highlighting among them the use of prior information within the model when estimating parameters of interest. However, performing statistical inference to draw conclusions from the data is complicated in general and using Bayesian methods in particular. Several steps must be carried out to ensure that the results obtained are correct and their interpretation in adequate.

Special Issue

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Message from the Editor-in-Chief

Addressing the environmental and public health challenges requires engagement and collaboration among clinicians and public health researchers. Discovery and advances in this research field play a critical role in providing a scientific basis for decision-making toward control and prevention of human diseases, especially the illnesses that are induced from environmental exposure to health hazards. *IJERPH* provides a forum for discussion of discoveries and knowledge in these multidisciplinary fields. Please consider publishing your research in this high quality, peer-reviewed, open access journal.

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