

Special Issue

Applied Bayesian Data Analysis in Exercise and Health Research

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 is adequate.

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Deadline for manuscript submissions

closed (31 December 2022)



International Journal of Environmental Research and Public Health

an Open Access Journal
by MDPI

CiteScore 8.5
Indexed in PubMed



mdpi.com/si/63864

*International Journal of
Environmental Research and
Public Health*

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Addressing the environmental and public health challenges requires engagement and collaboration among clinicians and public health researchers. Scientific discoveries and advances in this research field play a critical role in providing a rational basis for informed decision-making toward control and prevention of human diseases, especially the illnesses that are induced from environmental exposure to health hazards.

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