Bayesian Spatial Modelling of Global Public Health Issues based on Complex Survey Data

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Message from the Guest Editors

The Special Issue will try to bring together many applications of the Bayesian approach on global health issues (HIV, TB, HSV-2, malaria, hypertension, diabetes, malnutrition, Female Genital Mutilation (FGM), and obesity) using different data sources from complex household survey data. Hierarchical spatial modeling is a common and useful approach for modeling complex spatially correlated data in many settings in epidemiology, public health, and development studies. Most of the data collected by many governments through surveys and sentinel surveillance are georeferenced by districts, counties, provinces or other administrative units. Because of the complexity of factors associated with survival and health, traditional measures such as household socioeconomic and education may require supplementation with types of data that are both novel and less conventional. Statistical techniques that incorporate spatial analysis using a combination of data sources and spatial covariates offer such a possibility, though broadening the view of environment at both the macrolevel and the microlevel may be required to fully understand the scope of such influences.

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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