

Bayesian Disease Mapping Hierarchical Modeling In Spatial Epidemiology Second Edition Chapman And Hall Crc Interdisciplinary

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In recent years, disease mapping studies have become a routine application within geographical epidemiology and are typically analysed within a Bayesian hierarchical model formulation. A variety of model formulations for the latent level have been proposed but all come with inherent issues. In the classical BYM (Besag, York and Mollié) model, the spatially structured component cannot be seen independently from the unstructured component.

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The paradigm that is mostly used in this context is Bayesian hierarchical modeling. Fundamentally, this approach to the analysis of disease variation allows the use of a data model (likelihood) for the observed health outcome, while specifying additional features of the data within hierarchical parameter structures.

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Bayesian Statistical Analysis - CRFR
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Progressively more and more attention has been paid to how location affects health outcomes. The area of disease mapping focusses on these problems, and the Bayesian paradigm has a major role to play in the understanding of the complex interplay of context and individual predisposition in such studies of disease. Using R for Bayesian Spatial and Spatio-Temporal Health Modeling provides a major ...