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Bayesian problems.

Cambridge, England, 1988

Regression Modelling with Spatial

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Data: A Bayesian Approach is aimed at statisticians and quantitative social, economic and public health students and researchers who work with spatial and spatial-temporal data. It assumes a grounding in statistical theory up to the standard linear regression model. The

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chapters dedicated to substantive applications. The book includes WinBUGS code and R code and all datasets are available online. Part I covers fundamental issues arising when modelling spatial and spatial-temporal data. Part II focuses on modelling cross-

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sectional spatial data and begins by describing exploratory methods that help guide the modelling process. There are then two theoretical chapters on Bayesian models and a chapter of applications. Two chapters follow on spatial econometric modelling, one

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describing different models, the other substantive applications. Part III discusses modelling spatial-temporal data, first introducing models for time series data. Exploratory methods for detecting different types of space-time interaction are presented followed by

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two chapters on the theory of space-time separable (without space-time interaction) and inseparable (with space-time interaction) models. An

applications chapter includes: the evaluation of a policy intervention; analysing the temporal dynamics of

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crime hotspots; chronic disease surveillance; and testing for evidence of spatial spillovers in the spread of an infectious disease. A final chapter suggests some future directions and challenges.

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date Bayesian methods. The authors—all leaders in the statistics community—introduce basic concepts from a data-analytic perspective before presenting advanced methods.

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book can be used in three different ways. For undergraduate students, it introduces Bayesian inference starting from first principles. For graduate students, the text presents effective current approaches to Bayesian modeling and computation in statistics

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and related fields. For researchers, it provides an assortment of Bayesian methods in applied statistics. Additional materials, including data sets used in the examples, solutions to selected exercises, and software instructions, are available on the book's web page.

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A self-contained introduction to probability, exchangeability and Bayes' rule provides a theoretical understanding of the applied material. Numerous examples with R-code that can be run "as-is" allow the reader to perform the data analyses themselves.

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Bayesian methods are increasingly being used in the social sciences, as the

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problems encountered lend themselves so naturally to the subjective qualities of Bayesian methodology. This book provides an accessible introduction to Bayesian methods, tailored specifically for social science students. It contains lots of real examples from political

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science, psychology, sociology, and economics, exercises in all chapters, and detailed descriptions of all the key concepts, without assuming any background in statistics beyond a first course. It features examples of how to implement the methods using

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WinBUGS – the most-widely used Bayesian analysis software in the world – and R – an open-source statistical software. The book is supported by a Website featuring WinBUGS and R code, and data sets.

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**This book is concerned with the
processing of signals that have**

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**been sampled and digitized. The
fundamental theory behind Digital
Signal Processing has been in
existence for decades and has
extensive applications to the fields
of speech and data
communications, biomedical
engineering, acoustics, sonar,**

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radar, seismology, oil exploration,
instrumentation and audio signal
processing to name but a few [87].

The term "Digital Signal
Processing", in its broadest sense,
could apply to any operation carried
out on a finite set of measurements
for whatever purpose. A book on

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signal processing would usually contain detailed descriptions of the standard mathematical machinery often used to describe signals. It would also motivate an approach to real world problems based on concepts and results developed in linear systems theory, that make

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use of some rather interesting properties of the time and frequency domain representations of signals. While this book assumes some familiarity with traditional methods the emphasis is altogether quite different. The aim is to describe general methods for

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**carrying out optimal signal
processing.**

**Since the early 2000s, there has
been increasing interest within the
pharmaceutical industry in the
application of Bayesian methods at
various stages of the research,
development, manufacturing, and**

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health economic evaluation of new health care interventions. In 2010, the first Applied Bayesian Biostatistics conference was held, with the primary objective to stimulate the practical implementation of Bayesian statistics, and to promote the added-

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**value for accelerating the discovery
and the delivery of new cures to
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the conferences and debates,
providing an overview of Bayesian
methods applied to nearly all stages
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management. It highlights the value associated with sharing a vision with the regulatory authorities, academia, and pharmaceutical industry, with a view to setting up a common strategy for the appropriate use of Bayesian statistics for the benefit of patients.

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scientists involved in the research,

development, and approval of new

cures will be inspired by the

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possible applications of Bayesian methods covered in the book. The methods, applications, and computational guidance will enable the reader to apply Bayesian methods in their own pharmaceutical research.

Emmanuel Lesaffre is Professor of

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incorporate random effects, fit state-space mode

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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

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**viewpoint, and Bayesian
computation, notably MCMC. The
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case studies covering cost-
effectiveness analyses using
individual data from clinical trials,
evidence synthesis and hierarchical
models and Markov models. The**

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**text uses WinBUGS and JAGS with
datasets and code available online.**

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*The Second Bayesian Young
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here facilitate connections among*

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senior discussants is a critical part of the meeting and this volume, which follows publication of contributions from BAYSM 2013. The meeting's scientific program reflected the variety of fields in which Bayesian methods are currently employed or could

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be introduced in the future. Three brilliant keynote lectures by Chris Holmes (University of Oxford), Christian Robert (Université Paris-Dauphine), and Mike West (Duke University), were complemented by 24 plenary talks covering the major topics Dynamic Models,

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Nonparametrics, Biostatistics,
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contributions. Selected
contributions have been drawn
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All contributions in this volume are peer-reviewed and share original research in Bayesian computation, application, and theory.

Bayesian statistics is a dynamic and fast-growing area of statistical research and the

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Bayesian statistical methods have become widely used for data analysis and modelling in recent

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years, and the BUGS software has become the most popular

software for Bayesian analysis

worldwide. Authored by the team that originally developed this

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provides a practical introduction to this program and its use. The

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text presents complete coverage of all the functionalities of BUGS, including prediction, missing data, model criticism, and prior sensitivity. It also features a large number of worked examples and a wide range of applications from various disciplines. The book

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into the vital area of hierarchical
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applications of Bayesian methods.
It deals with essentials of*

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modelling without getting bogged down in complexity. The book emphasises model criticism, model comparison, sensitivity analysis to alternative priors, and thoughtful choice of prior distributions—all those aspects of the "art" of modelling that are

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easily overlooked in more theoretical expositions. More pragmatic than ideological, the authors systematically work through the large range of "tricks" that reveal the real power of the BUGS software, for example, dealing with missing

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data, censoring, grouped data, prediction, ranking, parameter constraints, and so on. Many of the examples are biostatistical, but they do not require domain knowledge and are generalisable to a wide range of other application areas. Full code and

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an operational methodology
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inference, rather than
focusing on its theoretical
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attention is paid to the**

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distributions in each case and
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computational details are
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Bayesian statistical analyses**

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is that there are fundamental
problems with orthodox
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attention not only to the
linkage of statistics to
practices in experimental**

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This is followed by explicit guidance on

assessing model quality and model fit

using various diagnostic techniques and

empirical summaries. Finally, it

introduces hierarchical models within

the Bayesian context, which leads

naturally to Markov Chain Monte

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Carlo computing techniques and other numerical methods. The author emphasizes practical computing issues, includes specific details for Bayesian model building and testing, and uses the freely available R and BUGS software for examples and exercise problems. The result is an eminently practical text

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**including the reasoning behind the
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nonparametrics, Gaussian processes
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indispensable tool for ecological**

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**principles behind the computations,
giving ecologists a big-picture
understanding of how to implement this
powerful statistical approach. Bayesian
Models is an essential primer for non-
statisticians. It begins with a definition
of probability and develops a step-by-
step sequence of connected ideas,**

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**including basic distribution theory,
network diagrams, hierarchical models,**

Markov chain Monte Carlo, and

inference from single and multiple

models. This unique book places less

emphasis on computer coding, favoring

instead a concise presentation of the

mathematical statistics needed to

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**intuitively reasonable and deriving to
appendixes the more complicated
matters. The biologist or the
agricultural researcher does not
normally have a background in
Bayesian statistics, having difficulties in
following the technical books
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difficulties arise from the way of making inferences, which is completely different in the Bayesian school, and from the difficulties in understanding complicated matters such as the MCMC numerical methods. We compare both schools, classic and Bayesian, underlying the advantages of Bayesian

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solutions, and proposing inferences based in relevant differences, guaranteed values, probabilities of similitude or the use of ratios. We also give a scope of complex problems that can be solved using Bayesian statistics, and we end the book explaining the difficulties associated to model choice

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