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Temporal Geographical Information Systems: Advanced Functions For Field-Based Applications



Synopsis

The book focuses on the development of advanced functions for field-based Temporal Geographical Information Systems (TGIS). These fields describe natural, epidemiological, economic, and social phenomena distributed across space and time. The book is organized around 4 main themes: concepts, mathematical tools, computer programs, and applications. The reader is also familiarized with the TGIS toolbox of advanced functions and the associated library of comprehensive computer programs, BMElib.

Book Information

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Customer Reviews

-Mathematical Reviews "I did enjoy reading this book. The authors presented information in an easily readable style and a generally logical format. [This book would provide a workable basis and valuable doorway to the world of advanced TGIS.](#)" (Kerryn Robinson, The Australian Geologist, Issue 126, 2003) "This is an attractive production from Springer. [There is a useful section of references and an index. Concepts are clearly and cleverly interwoven with practical examples. The diagrams support the text and are clear on their own account. The text seems clearly written and carefully prepared. An instructor looking for a fresh approach to teaching statistical modelling to students in a variety of disciplines might find this book a delightful choice!](#)" (Sandra L. Arlinghaus, Mathematical Reviews, Issue 2002 k)

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phenomena distributed across space and time. The book is organized around four main themes: "Concepts, mathematical tools, computer programs, and applications". Chapters I and II review the conceptual framework of the modern TGIS and introduce the fundamental ideas of spatiotemporal modelling. Chapter III discusses issues of knowledge synthesis and integration. Chapter IV presents state-of-the-art mathematical tools of spatiotemporal mapping. Links between existing TGIS techniques and the modern Bayesian maximum entropy (BME) method offer significant improvements in the advanced TGIS functions. Comparisons are made between the proposed functions and various other techniques (e.g., Kriging, and Kalman-Bucy filters). Chapter V analyzes the interpretive features of the advanced TGIS functions, establishing correspondence between the natural system and the formal mathematics which describe it. In Chapters IV and V one can also find interesting extensions of TGIS functions (e.g., non-Bayesian connectives and Fisher information measures). Chapters VI and VII familiarize the reader with the TGIS toolbox and the associated library of comprehensive computer programs. Chapter VIII discusses important applications of TGIS in the context of scientific hypothesis testing, explanation, and decision making.

This is a classic! The book opens new avenues to gis research and development. Lots of fresh ideas. Enjoyed tremendously! Highly recommend it.

A lot of advanced and fresh ideas of spatiotemporal analysis in GIS are introduced along with many nice and clear examples and computer codes. A great reference for both practical and theoretical uses in studying space-time processes under the GIS framework

Complete sham of a text

I was expecting to receive a book and CD together! But it was so disappointing for me to see there is no CD in the package!

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