



Analysis of Urban Growth and Sprawl from Remote Sensing Data (Advances in Geographic Information Science)

By *Basudeb Bhatta*

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This book provides a comprehensive discussion on urban growth and sprawl, and how they can be analyzed using remote sensing imageries. It compiles views of numerous researchers that help in understanding the urban growth and sprawl; their patterns, process, causes, consequences, and countermeasures; how remote sensing data and geographic information system techniques can be used in mapping, monitoring, measuring, analyzing, and simulating the urban growth and sprawl and what are the merits and demerits of available methods and models.

This book will be of value for the scientists and researchers engaged in urban geographic research, especially using remote sensing imageries. This book will serve as a rigorous literature review for them. Post graduate students of urban geography or urban/regional planning may refer this book as additional studies. This book may help the academicians for preparing lecture notes and delivering lectures. Industry professionals may also be benefited from the discussed methods and models along with numerous citations.

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Editorial Review

Review

<http://www.flipkart.com/remote-sensing-gis-basudeb-bhatta/019569239x-dqw3fekaod>

From the Author

About the Book

This book focuses on available methods and models for the analysis of urban growth and sprawl from remote sensing data along with their merits and demerits. However, this book does not aim to explain the concepts of these methods and models elaborately; rather it attempts to mention applications of these methods and models along with brief descriptions to gain a perception of their conceptual difference and how they are applicable in urban growth analysis. Therefore, the comparison among these methods and models does not result in absolute acceptance or rejection of any of these methods or models; rather it aims to answer this important question that to what extent does any of these methods or models fit in the analysis of urban growth and sprawl. The strategy that this book follows is reviewing studies in spatio-temporal analysis of urban growth and sprawl, and identifying the merits and demerits of each method or model. Although the focus is on analysis, as it should be; urban growth and sprawl--their patterns, process, causes, consequences, and countermeasures are also clearly described in context.

This book begins with discussion on urban growth and sprawl. As readers go through the chapters of this book, they will learn about the applications of remote sensing and GIS in the discipline of urban growth and sprawl--mapping, measuring, analysing, and modelling. The primary purpose of this book is to be a rigorous literature review for the scientists and researchers. This book will also be appreciated by the academicians for preparing lecture notes and delivering lectures. Post graduate students of urban geography or urban/regional planning may refer this book as additional studies. Industry professionals may also be benefited from the discussed methods and models along with numerous citations. It is hoped that this book will also attract and inspire individuals who might consider a specialised career in the field of urban planning and sustainable development or in the broader fields allied with urban growth.

Content and Coverage

The book is comprised with eight chapters; each chapter commences with an introduction that briefly outlines the topics covered in the respective chapter. The chapters also contain illustrations, notes and numerous citations that complement the text.

Chapter 1 covers the basic concepts of urban growth and sprawl along with some allied issues, especially, details on their patterns and process. Chapter 2 describes the causes and consequences of urban growth and sprawl in brief. Chapter 3 introduces the sustainable development and smart growth, and available approaches to restrict urban growth and sprawl towards achieving the sustainability.

Chapter 4 deals with general discussion on remote sensing data and GIS techniques for urban analysis. Chapter 5 describes available methods for mapping and monitoring of urban growth along with respective

merits and demerits. Different measurement and analytical techniques for urban growth and sprawl are furnished in Chapter 6. Chapter 7 houses modelling and simulation techniques of urban growth; and Chapter 8 is aimed to discuss several limitations of urban growth analysis from remote sensing data.

A very rich list of references at the end, which have been referred in the text suitably, is for the benefit of the readers for further readings. *(added by author)*

From the Back Cover

This book provides a comprehensive discussion on urban growth and sprawl, and how they can be analyzed using remote sensing imageries. It compiles the views of numerous researchers which help in understanding urban growth and sprawl; their patterns, process, causes, consequences, and countermeasures; how remote sensing data and geographic information system techniques can be used in mapping, monitoring, measuring, analyzing, and simulating the urban growth and sprawl; and the merits and demerits of current methods and models.

Scientists and researchers engaged in urban geographic research will benefit greatly from this book, especially when using remote sensing imageries. Post graduate students of urban geography or urban/regional planning may refer to this book for additional information. This book should also assist academicians when preparing lecture notes and delivering lectures. Professionals in related fields in industry will appreciate the methods and models discussed as well as the many citations.

Users Review

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Sarah Maddocks:

Book is to be different for every single grade. Book for children right up until adult are different content. We all know that that book is very important for us. The book Analysis of Urban Growth and Sprawl from Remote Sensing Data (Advances in Geographic Information Science) ended up being making you to know about other understanding and of course you can take more information. It doesn't matter what advantages for you. The e-book Analysis of Urban Growth and Sprawl from Remote Sensing Data (Advances in Geographic Information Science) is not only giving you much more new information but also to get your friend when you sense bored. You can spend your own spend time to read your publication. Try to make relationship using the book Analysis of Urban Growth and Sprawl from Remote Sensing Data (Advances in Geographic Information Science). You never really feel lose out for everything in the event you read some books.

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