

# **GIS & REMOTE SENSING:**

## **RECENT TRENDS AND APPLICATIONS**

(VOL. I)



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# **GIS & REMOTE SENSING: RECENT TRENDS AND APPLICATIONS**

**(Vol. I)**

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## **PREFACE**

The book "GIS and Remote Sensing: Recent Trends and Applications" likely explores the cutting-edge developments in the fields of Geographic Information Systems and remote sensing technology. These two fields play crucial roles in understanding, analyzing, and interpreting spatial data for a wide range of applications, from environmental monitoring to urban planning and disaster management. The book is likely to delve into the latest trends in GIS and remote sensing technologies. This could include advancements in satellite imagery, sensor technology, data processing techniques, and analytical methods. The focus is likely to be on real-world applications of GIS and remote sensing. This could involve case studies and examples showcasing how these technologies are being applied in various industries such as agriculture, forestry, environmental science, geology, urban planning, and disaster response. Given the interdisciplinary nature of GIS and remote sensing, the book might emphasize the integration of these technologies with other fields such as artificial intelligence, machine learning, and big data analytics. The environmental applications of GIS and remote sensing are likely to be a significant aspect of the book. This could cover topics such as land cover change detection, climate change monitoring, and biodiversity assessment. The book may explore how GIS and remote sensing contribute to urban planning, infrastructure development, and smart city initiatives. This could include topics like transportation planning, land-use mapping, and disaster resilience in urban areas. With the increasing use of geospatial data, the book might address the ethical considerations and challenges related to data privacy, security, and responsible use of GIS and remote sensing data. The book may provide a global perspective by including case studies and examples from different regions, showcasing the diverse applications and challenges faced in different parts of the world.

In summary, a book with the title "GIS and Remote Sensing: Recent Trends and Applications" is likely to offer a comprehensive overview of the latest developments in these fields, emphasizing practical applications and the evolving landscape of geospatial technologies.

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