**Research Methods in Remote Sensing**

This book introduces the overall concepts of research methods in Remote Sensing. It also addresses the entire research framework, ranging from ontology to documentation. As such, it covers the theory while providing a solid basis for engaging in concrete research activities. It is not intended as a textbook on remote sensing; rather, it offers guidance to those conducting research by examining philosophical and other issues that are generally not covered by textbooks. Various stages of research are discussed in detail, including illustrative discussions and helpful references.

The topics considered in this book cover a part of the research methodologies explored in Master of Philosophy (M.Phil.) and Doctor of Philosophy (Ph.D.) programs. The book’s physical format has been kept to a compact, handy minimum in order to maximize its accessibility and readability for a broad range of researchers in the field of remote sensing.

Contents

1. Introduction to Remote Sensing and Research
2. Research Framework
3. Collection of Data
4. Analysis of Data
5. Research Design
6. Power, Politics, and Ethics in Research

**Fields of interest**

Remote Sensing/Photogrammetry; Geotechnical Engineering & Applied Earth Sciences; Signal, Image and Speech Processing

**Target groups**

Research

**Product category**

Brief

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**Mitigating Climate Change**

The Emerging Face of Modern Cities

**Contents**

SECTION 1: URBAN POLICIES AND PRACTICES - Is Smart Growth Really So Smart? - Geographic Information Systems (GIS) as a tool in reducing a community’s ecological footprint.
- Resource-Centered Cities and the Opportunity of Shrinking.
- Understanding Local Government Resilience: A case study on how the local government of Marikina City reacted to the flood in September 2009.
- Emissions Models as a Design Tool for Urban Transportation Planners.
- Mobility With the Focus on Mitigating Climate Change in Urban Centers: Open Innovation and Pricing as Key Elements for Customer-Focused Strategies and Measures.
- SECTION 3: URBAN REMODELLING - Climate Change and Cities - Mitigation through the Effective Management of Waste.
- Climate change impacts on housing energy consumption and its adaptation pathways.
- European citizens, carbon footprints and their determinants - lifestyles and urban form.
- Assessment of Urban Heat Island and Mitigation by Urban Green Coverage.
- Urban climate change mitigation in Mexico City: Innovative solutions in Municipal Wastewater Treatment Plants.

**Fields of interest**

Landscape/Regional and Urban Planning; Climate Change; Environmental Management

**Target groups**

Research

**Product category**

Monograph

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**History of Cartography**

International Symposium of the ICA, 2012

**Features**

- Presents information previously unavailable on cartographic projects undertaken in the 19th and 20th centuries
- Reports on research projects in the history of cartography undertaken at tertiary institutions worldwide
- An important aid to educators teaching the development of geographical information science

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Redefining Imperial Borders: Marking the Eastern Border of the Habsburg Monarchy in the Second Half of the Eighteenth Century - Exploring and mapping the Danube: Reading a hydrographical map of Buda and Pest (1833) - Saxony’s role in the measurement of the Central European Meridian Arc as an international geodetic project since 1862.

**Field of interest**

Geographical Information Systems/Cartography

**Target groups**

Research

**Product category**

Monograph

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