



Regional and Urban GIS A Decision Support Approach

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“This book fills a void. It weaves theory and practice together, presenting an integrated view of the concepts, tools, and techniques involved in using GIS for public decision support within an urban-regional context. Including strong pedagogical features, the value of the content is very high for students, academics, and practitioners. The text takes complex subject areas and puts them into a form that students can understand, grasp, and master. No course in applied GIS and participatory planning should be without this book.”

—**Jacek Malczewski**, University of Western Ontario, Canada

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This unique text shows students and professionals how geographic information systems (GIS) can guide decision making about complex community and environmental problems. The authors' step-by-step introduction to GIS-based decision analysis methods and techniques covers important urban and regional issues (land, transportation, and water resource management) and decision processes (planning, improvement programming, and implementation). Real-world case studies demonstrate how GIS-based decision support works in a variety of contexts, with a special focus on community and regional sustainability management. Ideal for course use, the book reinforces key concepts with end-of-chapter review questions; illustrations include 18 color plates.

Contents

I. Situating GIS-Based Decision Support

1. Introduction: Need for Geographic Information Systems in Decision Support
2. GIS in Decision Support Situations
3. GIS-Based Decision Support Methods and Workflow
4. GIS-Based Decision Situation Assessment

II. Fundamentals of GIS Data and Analysis for Decision Support

5. Making Choices about Geospatial Database Development
6. Fundamentals of GIS-Based Data Analysis for Decision Support
7. Making Choices about GIS-Based Multicriteria Evaluation

III. Planning, Programming, and Implementation Decision Cases

8. GIS Data Analysis for Planning Decision Support
9. A Case Study in Water Resource Planning Decision Support
10. GIS Data Analysis for Improvement Programming Decision Support
11. GIS Data Analysis for Improvement Project Implementation Decision Support

IV. Using GIS for Integrated Decision Support

12. GIS-Based Integrated Analysis across Functional Themes
13. Linking Analyses across Decision Situation Processes

V. Concluding Perspective

14. Perspectives on GIS and Sustainability Management

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