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Geographic information systems (GIS) have been widely recognized as a valuable tool in the planning process. To examine the ways in which GIS is utilized for planning, a digital map of trails within and connecting to the Mississippi National River and Recreation Area was created, and exploratory spatial analysis using the trails layer and other data layers is proposed. An evaluation of the process and suggestions for a more comprehensive use of GIS in planning are

made. Spatial Modeling in GIS and R for Earth and Environmental Sciences offers an integrated approach to spatial modelling using both GIS and R. Given the importance of Geographical Information Systems and geostatistics across a variety of applications in Earth and Environmental Science, a clear link between GIS and open source software is essential for the study of spatial objects or phenomena that occur in the real world and facilitate problem-solving. Organized into clear sections on applications and using case studies, the book helps researchers to more quickly understand GIS data and formulate more complex conclusions. The book is the first reference to provide methods and applications for combining the use of R and GIS in modeling spatial processes. It is an essential tool for students and researchers in earth and environmental science, especially those looking to better utilize GIS and spatial modeling. Offers a clear, interdisciplinary guide to serve researchers in a variety of fields, including hazards, land surveying, remote sensing, cartography, geophysics, geology, natural resources, environment and geography Provides an overview, methods and case studies for each application Expresses concepts and methods at an appropriate level for both students and new users to learn by example Geographic Information Science for Land Resource Management is a comprehensive book focusing on managing land resources using innovative techniques of spatial information sciences and satellite

remote sensing. The enormous stress on the land resources over the years due to anthropogenic activities for commercialization and livelihood needs has increased manifold. The only solution to this problem lies in stakeholder awareness, which can only be attained through scientific means. The awareness is the basis of the sustainable development concept, which involves optimal management of natural resources, subject to the availability of reliable, accurate, and timely information from the global to local scales. GIScience consists of satellite remote sensing (RS), Geographical Information System (GIS), and Global Positioning System (GPS) technology that is nowadays a backbone of environmental protection, natural resource management, and sustainable development and planning. Being a powerful and proficient tool for mapping, monitoring, modeling, and managing natural resources can help understand the earth surface and its dynamics at different observational scales. Through the spatial understanding of land resources, policymakers can make prudent decisions to restore and conserve critically endangered resources, such as water bodies, lakes, rivers, air, forests, wildlife, biodiversity, etc. This innovative new volume contains chapters from eminent researchers and experts. The primary focus of this book is to replenish the gap in the available literature on the subject by bringing the concepts, theories, and experiences of the specialists and professionals in this

field jointly. The editors have worked hard to get the best literature in this field in a book form to help the students, researchers, and policymakers develop a complete understanding of the land system vulnerabilities and solutions. The growing potential of GIS for supporting policing and crime reduction is now being recognised by a broader community. GIS can be employed at different levels to support operational policing, tactical crime mapping, detection, and wider-ranging strategic analyses. With the use of GIS for crime mapping increasing, this book provides a definitive reference. GIS and Crime Mapping provides essential information and reference material to support readers in developing and implementing crime mapping. Relevant case studies help demonstrate the key principles, concepts and applications of crime mapping. This book combines the topics of theoretical principles, GIS, analytical techniques, data processing solutions, information sharing, problem-solving approaches, map design, and organisational structures for using crime mapping for policing and crime reduction. Delivered in an accessible style, topics are covered in a manner that underpins crime mapping use in the three broad areas of operations, tactics and strategy. Provides a complete start-to-finish coverage of crime mapping, including theory, scientific methodologies, analysis techniques and design principles. Includes a comprehensive presentation of crime mapping applications for operational, tactical and

strategic purposes. Includes global case studies and examples to demonstrate good practice. Co-authored by Spencer Chainey, a leading researcher and consultant on GIS and crime mapping, and Jerry Ratcliffe, a renowned professor and former police officer. This book is essential reading for crime analysts and other professionals working in intelligence roles in law enforcement or crime reduction, at the local, regional and national government levels. It is also an excellent reference for undergraduate and Masters students taking courses in GIS, Geomatics, Crime Mapping, Crime Science, Criminal Justice and Criminology. Showing how GIS and geography provide a framework for ecology and conservation efforts, this book describes how new technological tools for that kind of analysis, chief among them GIS, are being used to revolutionize the work of conservation. Publisher Description "Building accurate geodatabases is the foundation for meaningful and reliable GIS. By documenting actual case studies of successful ArcGIS implementations, *Designing Geodatabases* makes it easier to envision your own database plan."--Jacket. Using the varied case studies, this comprehensive resource looks beyond the mechanics of systems and screens to show how local governments can make geographic information systems true management tools. Case studies provide a framework of understanding of the unique capabilities of GIS. 50 maps. How do leaders and innovators drive change

and improvement? Governments often depend on a geographic context for making major decisions, sharing information, and expanding its operations. When organizations face the need for change from a drastic event, such as economic downturns or a pandemic, how do they maintain the quality of their day-to-day operations while continuing to find solutions to existing and new problems? Many governments and professionals turn to geographic information systems (GIS). Using GIS and location intelligence produces more informed, data-driven decisions, which lead to improved outcomes. Measuring Up: The Business Case for GIS, Volume 3 is a third book in the Measuring Up series demonstrating how government agencies have embraced GIS as a critical infrastructure in their processes. Through a collection of all-new, updated, real-world stories, each chapter covers how GIS helps organizations in saving time, saving money, avoiding cost, increasing accuracy, improving productivity, increasing efficiency, automating workflows, managing resources, and aiding in budgeting. Readers can look to this new collection as a model for working through their organization's new challenge or to understand the business value of introducing GIS into their organization. Measuring Up: The Business Case for GIS, Volume 3 explores how organizations can continue to move forward using GIS as not just a tool but necessary to the solution. Understanding GIS through Sustainable Development

Goals applies a pedagogical shift to learning GIS, as the readers employ the concepts and methodologies on real-world problems. This book provides 16 case studies across most of the Sustainable Development Goals (SDGs) with step-by-step practical instructions using QGIS(Quantum Geographic Information System) , an open-source software. It helps readers develop GIS skills on real-world data, while learning the fundamentals such as spatial data models, projections, and spatial databases, different cartographic methods, such as graduated symbology, change maps, and dynamic visualization, as well as more intermediate and advanced spatial analysis such as geoprocessing, multiple criteria analysis, and spatial statistics. The topics chosen are taught in secondary and tertiary education institutions which make this a textbook for all students and educators. Features: Focuses on learning GIS through 16 real world case studies. Introduces an open-source software that can be used beyond the classroom. Analyzes Sustainable Development Goals in a global framework and provides an alternative approach to learning GIS. Supports both secondary and tertiary educators and improves GIS education at all levels. Contains a holistic range of case studies that extend across several disciplines, from geography education, environmental sciences, geosciences, natural sciences, social sciences, and digital humanities. This is a textbook for all students and educators, providing 16 case studies across most of

the SDGs with step-by-step practical instructions using QGIS, an open-source software. This is the ideal book for GIS users in law enforcement who want to learn more about the technology or who wish to get started using GIS in their agency. Crime analysts, teachers, and students of criminal justice will also gain valuable insights into a suite of powerful technological tools ideally suited for crime mapping and analysis from this com Describes how GIS, a desktop mapping and data analysis software, is being used by journalists to analyze and categorize data, along with an introduction to GIS and how it works.

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