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GEOTECHNOLOGIES AND THE ENVIRONMENT

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Nancy Hoalst-Pullen · Mark W. Patterson (Eds.)

Geospatial Technologies in Environmental Management



Springer

Geospatial Technologies In Environmental Management Book

R. S. Dwivedi



Geospatial Technologies In Environmental Management Book:

Geospatial Technologies in Environmental Management, 2010 *Geospatial Technologies in Environmental Management* Nancy Hoalst-Pullen, Mark W. Patterson, 2010-09-27 Geotechnologies and the Environment Environmental Applications and Management presents an engaging and diverse array of physically oriented GIScience applications that have been organized using four broad themes While the book's themes are by no means mutually exclusive Hoalst Pullen and Patterson provide an elegant overview of the field that frames the collection's subsequent thematic structure Wilderness and Wildlife Response Glaciers Wetlands and Watersheds and Human Health and the Environment Over the course of the volume the contributing authors move beyond basic and in some respects clichéd landscape ecology of land use change to explore human environment dynamics heretofore not emphasized in the applied literature In doing so the collection presents a compelling case for the importance of developing new physically oriented GIScience applications that reside at the nexus of social and natural systems with the explicit intent of informing public policy and/or the decision making practices of resource managers Individually the chapters themselves are intentionally diverse The diversity of the approaches their spatial context and emphases on management applications demonstrate the many ways in which geotechnologies can be used to address small and big problems in both developed and developing regions The collection's internal coherence is derived like the book series from its explicit appeal to a wide variety of human environment interactions with potential policy linkages

Geospatial Technologies in Environmental Management Nancy Hoalst-Pullen, Mark W. Patterson, 2011-07-23 Geotechnologies and the Environment Environmental Applications and Management presents an engaging and diverse array of physically oriented GIScience applications that have been organized using four broad themes While the book's themes are by no means mutually exclusive Hoalst Pullen and Patterson provide an elegant overview of the field that frames the collection's subsequent thematic structure Wilderness and Wildlife Response Glaciers Wetlands and Watersheds and Human Health and the Environment Over the course of the volume the contributing authors move beyond basic and in some respects clichéd landscape ecology of land use change to explore human environment dynamics heretofore not emphasized in the applied literature In doing so the collection presents a compelling case for the importance of developing new physically oriented GIScience applications that reside at the nexus of social and natural systems with the explicit intent of informing public policy and/or the decision making practices of resource managers Individually the chapters themselves are intentionally diverse The diversity of the approaches their spatial context and emphases on management applications demonstrate the many ways in which geotechnologies can be used to address small and big problems in both developed and developing regions The collection's internal coherence is derived like the book series from its explicit appeal to a wide variety of human environment interactions with potential policy linkages Geospatial Technology for Landscape and Environmental Management Praveen Kumar Rai, Varun Narayan Mishra, Prafull Singh, 2022-01-11 Geospatial technology is a combination of

state of the art remote sensing and technology for geographic information systems GIS and global navigation satellite systems GNSS for the mapping and monitoring of landscapes and environment The main thrust of using geospatial technology is to understand the causes mechanisms and consequences of spatial heterogeneity while its ultimate objective is to provide a scientific basis for developing and maintaining ecologically economically and socially sustainable landscapes This book presents new research on the interdisciplinary applications of geospatial technology for identification assessment monitoring and modelling issues related to landscape natural resources and environmental management The book specifically focuses on the creation collection storage processing modelling interpretation display and dissemination of spatio temporal data which help to resolve environmental management issues including ecosystem change resource utilization land use management and environmental pollution The positive environmental impacts of information technology advancements with regard to global environmental and climate change are also discussed The book addresses the interests of a wide spectrum of readers who have a common interest in geospatial science geology water resource management database management planning and policy making and resource management Applications and Challenges of Geospatial Technology Pavan Kumar, Meenu Rani, Prem Chandra Pandey, Haroon Sajjad, Bhagwan Singh Chaudhary, 2018-11-24 This book advances the scientific understanding and application of space based technologies to address a variety of areas related to sustainable development including environmental systems analysis environmental management clean processes green chemistry and green engineering Geo spatial techniques have gained considerable interest in recent decades among the earth and environmental science communities for solving and understanding various complex problems and approaches towards sustainable technologies The book encompasses several scopes of interests on sustainable technologies in areas such as water resources forestry remote sensing meteorology atmospheric and oceanic modeling environmental engineering and management civil engineering air and environmental pollution water quality problems etc The book will appeal to people with an interest in geo spatial techniques sustainable development and other diverse backgrounds within earth and environmental sciences field **Geospatial Techniques for Managing Environmental Resources** Jay Krishna Thakur, Sudhir Kumar Singh, AL Ramanathan, M. Bala Krishna Prasad, Wolfgang Gossel, 2012-03-05 Geospatial Information is spatial data concerning a place or in space collected in real time Geospatial techniques together with remote sensing geographic information science Global Positioning System GPS cartography geovisualization and spatial statistics are being used to capture store manipulate and analyze to understand complex situations to solve mysteries of the universe These techniques have been applied in various fields such as meteorology forestry environmental management agriculture health homeland security etc around the globe This volume presents case studies and examples from various parts of the world and provides a broad overview of various approaches data sets data acquiring monitoring and dissemination methods satellites and sensors tools and techniques used integrating tools techniques and application to various fields for the sustainable

management of environmental resources in the context of global environmental change and natural hazards The objective of this book is to provide state of the art information to academics researchers and industry practitioners who are involved or interested in the study use design and development of advanced and emerging geospatial technologies around the world with ultimate aim to empower individuals and organizations in building competencies for exploiting the opportunities of the knowledge society All the chapters are peer reviewed and evaluated and are an inter and multi disciplinary source of information making an effort to link various geospatial techniques to make the earth an habitable place The contributors have tried to focus their respective views on the current problems that need urgent attention Consequently we see this book as a comprehensive information base which includes work of expertise in their specific fields of research *SPATIAL ANALYSIS AND GEOSPATIAL TECHNOLOGIES* Dr. Basavaraj R. Bagade & Dr. Mohd Akhter Ali, 2020-06-18

The administrators of city or a town adopt two approaches to evaluate the urban places and the impact of urbanization The first approach undertakes the Study of size function growth rate and tributary area of cities in the general fabric of settlements The second approach deals with the internal structure of cities and the related factors which control the layout and buildings the character and intensity of land use the movement of persons and goods between various functional areas The land use planning is a part of larger process of city planning It is basically concerned with location intensity and amount of land development required from various space using functions of city life such as industry wholesaling business housing recreation education and religious and cultural activities of the people The study of urban land use and its planning is of considerable significance in the overall planning of urban places like Gadag Betageri city Decline and decay of our cities calls for all policy makers administrators and Politicians to stop destructive forces of the urban development and to forge alliances among all local and national forces which are concerned with the social political economic ecological physical and cultural development of our cities and towns Despite the claims that developments in communications imply that the cities are Remote Sensing and GIS going to lose their function and will change dramatically it cannot be predicted that the new paradigm of the information city will only represent another device of those who do not have access to information technology *The Routledge Handbook of Geospatial Technologies and Society* Alexander J. Kent, Doug Specht, 2023-08-17

The Routledge Handbook of Geospatial Technologies and Society provides a relevant and comprehensive reference point for research and practice in this dynamic field It offers detailed explanations of geospatial technologies and provides critical reviews and appraisals of their application in society within international and multi disciplinary contexts as agents of change The ability of geospatial data to transform knowledge in contemporary and future societies forms an important theme running throughout the entire volume Contributors reflect on the changing role of geospatial technologies in society and highlight new applications that represent transformative directions in society and point towards new horizons Furthermore they encourage dialogue across disciplines to bring new theoretical perspectives on geospatial technologies from neurology

to heritage studies The international contributions from leading scholars and influential practitioners that constitute the Handbook provide a wealth of critical examples of these technologies as agents of change in societies around the globe The book will appeal to advanced undergraduates and practitioners interested or engaged in their application worldwide

Harnessing AI in Geospatial Technology for Environmental Monitoring and Management Mobo, Froilan D., 2024-12-06 The integration of Artificial Intelligence AI with geospatial technologies is increasingly vital in addressing environmental challenges facing society today As climate change resource depletion and environmental degradation intensify AI driven geospatial tools offer powerful solutions for monitoring ecosystems predicting environmental changes and managing natural resources more effectively By harnessing AI to analyze large volumes of environmental data decision makers can gain deeper insights and make more informed timely decisions to protect the environment This convergence of technology and environmental science has the potential to revolutionize how we understand and respond to environmental issues making it a critical area of focus for sustainable development and environmental protection efforts **Harnessing AI in Geospatial Technology for Environmental Monitoring and Management** explores the integration of AI with geospatial technologies to advance environmental monitoring and management practices It discusses methods challenges and emerging technologies in the field Covering topics such as agriculture environmental information and solar energy this book is an excellent resource for academicians researchers professionals policymakers government officials graduate and postgraduate students and more

Advanced Geospatial Practices in Natural Environment Resource Management Vohra, Rubeena, Kumar, Ashish, 2024-03-18 Today the relentless depletion of natural resources has reached a critical juncture demanding innovative solutions **Advanced Geospatial Practices in Natural Environment Resource Management** dives into the intricate tapestry of issues jeopardizing ecosystems This book systematically dissects the fundamental drivers traces the historical evolution and elucidates the underlying causes that have led to this precarious point From deforestation to pollution from climate change to habitat destruction these challenges are multifaceted By harnessing the power of data driven decision making and predictive modeling this book advocates for a profound shift in the approach to environmental issues This book also explores the complexities of water soil and air related challenges offering technically sound solutions that strike a balance between legislative economic social and political considerations The holistic approach championed in these pages holds the potential to benefit governments businesses and communities alike This book is ideal for a diverse audience including students scholars and researchers as well as environmental science enthusiasts geospatial technology professionals and AI ML practitioners Policymakers environmental engineers and professionals engaged in governmental and corporate sustainability initiatives will also discover practical solutions to address the pressing challenges

Advances in Geospatial Technologies for Natural Resource Management Ravi Shankar Dwivedi, 2024-11-19 Timely and reliable information on natural resources regarding their potential and limitations is a prerequisite for sustainable development

Geospatial technologies offer immense potential in providing such information in a timely and cost effective manner Using orbital sensors data in conjunction with airborne and proximal sensors data to generate information on soils and agricultural resources forests mineral resources fossil fuel wetlands water resources and marine resources this book focuses on the advancements in technologies applicable to managing these resources It addresses global issues like climate change and land degradation neutrality and introduces spatial data infrastructure SDI as a mechanism for sharing geospatial data This book also provides an in depth discussion on drones crowdsourcing cloud computing Internet of Things machine learning and their applications FEATURES Contains a comprehensive resource on the latest developments in geospatial technologies and their use in monitoring natural resources productivity mapping and modeling Explains the geo computation methods and online algorithm developments Includes clear guidance on how best to use geospatial data for various applications Discusses case studies from a variety of fields and current trends in the management of natural resources Provides future scenarios concerning platforms sensors data analysis and interpretation techniques This book is written for remote sensing and GIS professionals in environmental institutions and government who are involved in natural resource management projects Senior undergraduate and graduate level students in Earth sciences geography or environmental management can also use this text for supplementary reading Sustainable Green Technologies for Environmental Management Shachi Shah,V. Venkatramanan,Ram Prasad,2019-02-19 Our Earth is considered as a natural system which organizes and controls itself However the present scale of anthropogenic activity is unprecedented in the history of mankind compelling the intelligentsia to ponder over the scientific causes of the problems processes and sustainable and pragmatic solutions The current rate of resource use and consumption pattern are depleting the planet s finite resources and damaging life supporting ecosystems A large number of toxic substances are increasingly found in air water soil and flora and fauna We are in the midst of a period of increasing interconnected and complex global challenges that seek action across temporal and spatial scales diverse sectors and concerted efforts from global citizens The environment on account of human s action has been experiencing imbalances and ecological catastrophe Environmental issues like global climate change biodiversity loss the rapid depletion of natural resources degradation of global commons stratospheric ozone depletion have been restricting the safe operating space and transgressing the planetary boundaries endangering the existence of human societies The global environmental problems if not scientifically managed may end up in the civilizational collapse Nevertheless the underlying commonality among these environmental issues is interrelatedness complexity and difficulty in identifying and implementing solutions The global environmental challenges can be managed by adopting sustainable green technologies which dovetails the principles of environmental sustainability with social and ecological sustainability Green growth is construed as a new development paradigm that sustains economic growth while at the same time ensuring environmental sustainability *Geospatial Technologies for Integrated Water Resources Management* Bhagwan B. Ghute,Pranaya Diwate,2024-07-16 This book

examines water resources helps understand complexities in water management and explains the use of geospatial technology By 2050 the world will have nearly about 9.8 billion population and which is almost 2.5 to 3 billion added to the present population Only 3% of world water resources are available for human consumption Even some resources are polluted because of poor management Water management is important since it helps determine future irrigation prospects Management of water resources under set policies and regulations Water is a more valuable commodity and the world is facing acute water shortages because of drought which is attributed to climate change and overuse Many rivers are drying up polluted and encroached Now the challenge is whether future generations will have enough fresh water for living Geospatial Technology i.e. Remote Sensing (RS) and GIS have gained considerable interest among earth and hydrological science communities for solving and understanding various complex issues and approaches towards water resources development and management Water can provide sustainability to any region Sustainability means that meet the needs of the present without compromising the ability of future generations to meet their own needs These are generally integrated to study a variety of natural resources and their characteristics Major advancements have been accomplished in integrating remote sensing and GIS and they complement each other RS is used for acquiring information for GIS Remote sensing and GIS integration provide information on the spatial variation extent and potential and limitations of natural resources which is essential for planning the strategy for sustainable development Most hydrological or geomorphological models are developed in a GIS framework and these are helpful for the planning and management of water and decision makers for sustainable development

Applications of Geospatial Technology and Modeling for River Basin Management Subodh Chandra Pal, Uday Chatterjee, Rabin Chakraborty, 2024-10-08 Applications of Geospatial Technology and Modeling for River Basin Management Volume Twelve covers the use of multi temporal satellite data for accurate estimations of different watershed features It includes methods and case studies of the use of geographic information systems GIS as a valuable tool for criteria based spatial analysis to manage natural resources and accurately simulate natural phenomena such as the hydrologic response of a watershed to precipitation and susceptibility to water erosion The book also provides direction on many types of modelling and mapping techniques in geospatial environments based on river basin management challenges This book will be a useful guide for academics researchers and practitioners involved in the use of geospatial technologies for river basin management as well as those interested in environmental management and Earth surface geomorphology Covers the use of geospatial technologies and modeling for effective management of river basins Includes methodology and detailed case studies showing real world applications at a variety of scales Emphasizes the importance of integrating geospatial tools in decision making processes for sustainable water resource management

Interacting with Geospatial Technologies Mordechai (Muki) Haklay, 2015-10-26 This book provides an introduction to HCI and usability aspects of Geographical Information Systems and Science Its aim is to introduce the principles of Human Computer Interaction (HCI) to discuss the

special usability aspects of GIS which designers and developers need to take into account when developing such systems and to offer a set of tried and tested frameworks matrices and techniques that can be used within GIS projects Geographical Information Systems and other applications of computerised mapping have gained popularity in recent years Today computer based maps are common on the World Wide Web mobile phones satellite navigation systems and in various desktop computing packages The more sophisticated packages that allow the manipulation and analysis of geographical information are used in location decisions of new businesses for public service delivery for planning decisions by local and central government Many more applications exist and some estimate the number of people across the world that are using GIS in their daily work at several millions However many applications of GIS are hard to learn and to master This is understandable as until quite recently the main focus of software vendors in the area of GIS was on the delivery of basic functionality and development of methods to present and manipulate geographical information using the available computing resources As a result little attention was paid to usability aspects of GIS This is evident in many public and private systems where the terminology conceptual design and structure are all centred around the engineering of GIS and not on the needs and concepts that are familiar to the user This book covers a range of topics from the cognitive models of geographical representation to interface design It will provide the reader with frameworks and techniques that can be used and description of case studies in which these techniques have been used for computer mapping application

Geospatial Technologies for Land Degradation Assessment and Management R. S. Dwivedi, 2018-10-17 The constant growth of the world's population and the decline of the availability of land and soil resources are global concerns for food security Other concerns are the decrease in productivity and delivery of essential ecosystems services because of the decline of soil quality and health by a range of degradation processes Key soil properties like soil bulk density organic carbon concentration plant available water capacity infiltration rate air porosity at field moisture capacity and nutrient reserves are crucial properties for soil functionality which refers to the capacity of soil to perform numerous functions These functions are difficult to measure directly and are estimated through indices of soil quality and soil health Soil degradation its extent and severity can also be estimated by assessing indices of soil quality and health Geospatial Technology for Land Degradation Assessment and Management uses satellite imagery and remote sensing technologies to measure landscape parameters and terrain attributes Remote sensing and geospatial technologies are important tools in assessing the extent and the severity of land and soil degradation their temporal changes and geospatial distribution in a timely and cost effective manner The knowledge presented in the book by Dr R S Dwivedi shows how remote sensing data can be utilized for inventorying assessing and monitoring affected ecosystems and how this information can be integrated in the models of different local settings Through many land degradations studies land managers researchers and policymakers will find practical applications of geospatial technologies and future challenges The information presented is also relevant to advancing the Sustainable Development

Goals of the United Nations towards global food security *Land and Environmental Management Through Forestry* Abhishek Raj,Manoj Kumar Jhariya,Arnab Banerjee,Sharad Nema,Kiran Bargali,2023-06-16 LAND AND ENVIRONMENTAL MANAGEMENT THROUGH FORESTRY Written and edited by a group of experts in the field this groundbreaking reference work sets the standard for engineers students and professionals working in forestry agriculture ecology and environmental science offering the scientific community a way toward combating climate change and land degradation This outstanding new volume covers the diverse issues of land degradation around the world and its restoration through forestry agroforestry and other practices The editors have integrated many different concepts and applications into a single place from which scientists research scholars academicians and policymakers can benefit New insights in this area are critical as our very existence depends on forest sustainability and land restoration management The work consists of chapters addressing the issues of land degradation deforestation intensive agricultural practices sustainable intensification soil and forest related services land and environmental management and overall sustainability of the ecosystem The contributors address current issues and their management through a holistic and integrated approach presenting the context of land degradation and its problem identifying the potential areas of research in the field of land restoration identifying the land based services and their potential role for ecosystem sustainability creating awareness so that future policies can be framed for the betterment of human civilization and addressing sustainable intensification for land and environmental management and service A standard reference work for the disciplines of forestry agriculture ecology and environmental science it will also be a way forward for combating climate change Useful to academics researchers ecologists environmentalists students capacity builders and policymakers it is a must have for any library **Geo-Spatial Technologies in Urban Environments** Ryan R. Jensen,Jay D. Gatrell,Daniel McLean,2005-08-29 This book demonstrates the application of remote sensing data and geographic information systems to the exploration of issues often ignored by the mainstream community of geo technical specialists such as urban forestry urban traffic migration or quality of life in urban areas Case studies show how environmental science and planning sociology landscape ecology and architecture can benefit from employing remote sensing data and GIS Geospatial Technologies for Urban Health Yongmei Lu,Eric Delmelle,2019-10-10 This volume presents a timely collection of research papers on the progress opportunities and challenges related to the advancement of geospatial technologies for applications in urban health research and management The chapter authors cover technologies ranging from traditional GIS and remote sensing technologies to recently developed tracking locational technologies and volunteered geographic information VGI In four main sections the book uniquely contributes to the conversation of how geospatial technologies and other GIScience research may be enhanced by addressing the data and challenges presented by urban health issues The book is intended for those with backgrounds in health and medical geography social epidemiology urban planning health management and lifestyle research The book starts with an introduction by the editors providing an

overview of traditional and emerging geospatial technologies and how they each can significantly contribute to urban health studies Section 1 covers urban health risk and disease and analyses the spatial and temporal patterns of selected urban health issues Section 2 addresses urban health service access and demonstrates how traditional and new geospatial technologies apply to different segments of urban populations facing varied challenges Section 3 focuses on incorporating geospatial technologies in promoting healthy behaviours and lifestyles in urban settings Section 4 assesses how geospatial technologies may be incorporated into urban health policies and management practices Adopting a forward looking perspective these papers examine the various health challenges in urban systems and explore how new and emerging geospatial technologies will need to develop to address these problems

Geostatistics and Geospatial Technologies for Groundwater Resources in India Partha Pratim Adhikary, Pravat Kumar Shit, Priyabrata Santra, Gouri Sankar Bhunia, Ashwani Kumar Tiwari, B. S. Chaudhary, 2021-02-26 This book offers essential information on geospatial technologies for water resource management and highlights the latest GIS and geostatistics techniques as they relate to groundwater Groundwater is inarguably India's single most important natural resource It is the foundation of millions of Indian farmers livelihood security and the primary source of drinking water for a vast majority of Indians in rural and urban areas The prospects of continued high rates of growth in the Indian economy will to a great extent depend on how judiciously we can manage groundwater in the years to come Over the past three decades India has emerged as by far the single largest consumer of groundwater in the world Though groundwater has made the country self sufficient in terms of food we face a crisis of dwindling water tables and declining water quality Deep drilling by tube wells which was once part of the solution to water shortages is now in danger of becoming part of the problem Consequently we urgently need to focus our efforts on the sustainable and equitable management of groundwater Addressing that need this book presents novel advances in and applications of RS GIS and geostatistical techniques to the research community in a precise and straightforward manner

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