

Remote Sensing Of The Environment An Earth Resource Perspective

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Remote Sensing of the Environment

An Earth Resource Perspective *Pearson*

This popular book introduces the fundamentals of remote sensing from an earth resource (versus engineering) perspective. The author emphasizes the use of remote sensing data for useful spatial biophysical or socio-economic information that can be used to make decisions. KEY TOPICS: Provides two new chapters on LIDAR Remote Sensing (Ch. 10) and In situ Spectral Reflectance Measurement (Ch. 15). Offers a thorough review of the nature of electromagnetic radiation, examining how the reflected or emitted energy in the visible, near-infrared, middle-infrared, thermal infrared, and microwave portions of the spectrum can be collected by a variety of sensor systems and analyzed. Employs a visually stimulating, clear format: a large (8.5" x 11") format with 48 pages in full color facilitates image interpretation; hundreds of specially designed illustrationscommunicate principles in an easily understood manner. MARKET: A useful reference for agriculture, wetland, and/or forestry professionals, along with geographers, urban planners, and transportation engineers.

Remote Sensing of the Environment

An Earth Resource Perspective

Remote Sensing of Environment

Integrated Approaches *BoD – Books on Demand*

This book covers the latest developments in remote sensing theory and applications by numerous researchers, experts and collaborators of the Remote Sensing and Geo-Environment Lab of the Department of Civil Engineering and Geomatics of the Cyprus University of Technology. The main highlight of this book is combination of several techniques such as satellite remote sensing, field spectroscopy, smart sensors, ground techniques for achieving an integrated method for the systematic monitoring of the environment.

Fundamentals of Satellite Remote Sensing

An Environmental Approach, Third Edition *CRC Press*

Fundamentals of Satellite Remote Sensing: An Environmental Approach, Third Edition, is a definitive guide to remote sensing systems that focuses on satellite-based remote sensing tools and methods for space-based Earth observation (EO). It presents the advantages of using remote sensing data for studying and monitoring the planet, and emphasizes concepts that make the best use of satellite data. The book begins with an introduction to the basic processes that ensure the acquisition of space-borne imagery, and provides an overview of the main satellite observation systems. It then describes visual and digital image analysis, highlights various interpretation techniques, and outlines their applications to science and management. The latter part of the book covers the integration of remote sensing with Geographic Information System (GIS) for environmental analysis. This latest edition has been written to reflect a global audience and covers the most recent advances incorporated since the publication of the previous book, relating to the acquisition and interpretation of remotely sensed data. New in the Third Edition: Includes additional illustrations in full color. Uses sample images acquired from different ecosystems at different spatial resolutions to illustrate different interpretation techniques. Includes updated EO missions, such as the third generations of geostationary meteorological satellites, the new polar orbiting platforms (Suomi), the ESA Sentinels program, and high-resolution commercial systems. Includes extended coverage of radar and LIDAR processing methods. Includes all new information on near-ground missions, including unmanned aerial vehicles (UAVs). Covers new ground sensors, as well as machine-learning approaches to classification. Adds more focus on land surface characterization, time series, change detection, and ecosystem processes. Extends the interactions of EO data and GIS that cover different environmental problems, with particular relevance to global observation. Fundamentals of Satellite Remote Sensing: An Environmental Approach, Third Edition, details the tools that provide global, recurrent, and comprehensive views of the processes affecting the Earth. As one of CRC’s Essential titles, this book and stands out as one of the best in its field and is a must-have for researchers, academics, students, and professionals involved in the field of environmental science, as well as for libraries developing collections on the forefront of this industry.

Remote Sensing and Global Environmental Change *John Wiley & Sons*

Remote Sensing plays a key role in monitoring the various manifestations of global climate change. It is used routinely in the assessment and mapping of biodiversity over large areas, in the monitoring of changes to the physical environment, in assessing threats to various components of natural systems, and in the identification of priority areas for conservation. This book presents the fundamentals of remote sensing technology, but rather than containing lengthy explanations of sensor specifications and operation, it concentrates instead on the application of the technology to key environmental systems. Each system forms the basis of a separate chapter, and each is illustrated by real world case studies and examples. Readership The book is intended for advanced undergraduate and graduate students in earth science, environmental science, or physical geography taking a course in environmental remote sensing. It will also be an invaluable reference for environmental scientists and managers who require an overview of the use of remote sensing in monitoring and mapping environmental change at regional and global scales. Additional resources for this book can be found at: <http://www.wiley.com/go/purkis/remote>.

Fundamentals of Satellite Remote Sensing

An Environmental Approach *CRC Press*

Fundamentals of Satellite Remote Sensing: An Environmental Approach, Second Editionis a definitive guide to remote sensing systems that focuses on satellite-based remote sensing tools and methods for space-based Earth observation (EO). It presents the advantages of using remote sensing data for studying and monitoring the planet, and emphasizes concepts that make the best use of satellite data. The book begins with an introduction to the basic processes that ensure the acquisition of

space-borne imagery and provides an overview of the main satellite observation systems. It then describes visual and digital image analysis, highlights various interpretation techniques, and outlines their applications to science and management. The latter part of the book covers the integration of remote sensing with GIS for environmental analysis. Based on the first English version published in 2010, this latest edition has been written to reflect a global audience, and factors in international debates and legal issues surrounding EO, as well as future developments and trends. New in the Second Edition: Includes additional illustrations now in full color Uses sample images acquired from different ecosystems at different spatial resolutions to illustrate different interpretation techniques Updates information on recent satellite missions (Landsat-8, Sentinel-2, hyperspectral and hyperspatial programs) Covers near-ground missions (including UAV) and ground sensors (spectro-radiometers, cameras, LIDAR, etc.) to support EO analysis Offers analysis of image spatial properties Presents material on visual analysis, time series analysis, and data fusion Provides examples of EO data that cover different environmental problems, with particular relevance to global observation Fundamentals of Satellite Remote Sensing: An Environmental Approach, Second Editiondetails the tools that provide global, recurrent, and comprehensive views of the processes affecting the Earth and is a must-have for researchers, academics, students, and professionals involved in the field of environmental science.

Environmental Remote Sensing and Systems Analysis *CRC Press*

Using a systems analysis approach and extensive case studies, Environmental Remote Sensing and Systems Analysis shows how remote sensing can be used to support environmental decision making. It presents a multidisciplinary framework and the latest remote sensing tools to understand environmental impacts, management complexity, and policy implicatio

Introduction to Remote Sensing of the Environment

Remote Sensing of Environment *Addison-Wesley*

An essentially non-mathematical treatment designed for first year graduate and advanced undergraduate students.

Introduction to Environmental Remote Sensing *Psychology Press*

First Published in 1999. Routledge is an imprint of Taylor & Francis, an informa company.

Remote Sensing Applications in Environmental and Earth System Sciences *CRC Press*

Remote Sensing Applications in Environmental and Earth System Sciences is a contemporary, multi-disciplinary, multi-scaling, updated, and upgraded approach of applied remote sensing in the environment. The book begins with an overview of remote sensing technology, and then explains the types of data that can be used as well as the image processing and analysis methods that can be applied to each type of application through the use of case studies throughout. Includes a wide spectrum of environmental applications and issues Explains methodological image analysis and interpretation procedures for conducting a variety of environmental analyses Discusses the development of early warning systems Covers monitoring of the environment as a whole – atmosphere, land, and water Explores the latest remote sensing systems in environmental applications This book is an excellent resource for anyone who is interested in remote sensing technologies and their use in Earth systems, natural resources, and environmental science.

Land Surface Remote Sensing

Environment and Risks *Elsevier*

Land Surface Remote Sensing: Environment and Risks explores the use of remote sensing in applications concerning the environment, including desertification and monitoring deforestation and forest fires. The first chapter covers the characterization of aerosols and gases by passive remote sensing. The next chapter presents the correlation of optical images for quantifying the deformation of the Earth's surface and geomorphological processes. The third chapter is examines remote sensing applications in the mining environment. The fourth chapter depicts the strong potential of radar imagery for volcanology and urban and mining subsidence studies. The next two chapters deal respectively with the use of remote sensing in locust control and the contribution of remote sensing to the epidemiology of infectious diseases. In the last ten years, spatial observation of the Earth—particularly continental surfaces—has expanded considerably with the launch of increasing numbers of satellites covering various applications (hydrology, biosphere, flow of surface, snow, ice, landslide, floods). This has paved the way for an explosion in the use of remote sensing data. This book offers essential coverage of space-based observation techniques for continental surfaces. The authors explore major applications and provide a corresponding detailed chapter for the physical principles, physics of measurement, and data processing requirements for each technique, bringing you up-to-date descriptions of techniques used by leading scientists in the field of remote sensing and Earth observation. Provides clear and concise descriptions of modern remote sensing methods Explores the most current remote sensing techniques with physical aspects of the measurement (theory) and their applications Provides chapters on physical principles, measurement, and data processing for each technique described Describes optical remote sensing technology, including a description of acquisition systems and measurement corrections to be made

The Surveillant Science

Remote Sensing of the Environment *John Wiley & Sons*

Advances in Environmental Remote Sensing *Wiley-Blackwell*

Significant advances have been made in mapping and monitoring our environment from Earth Observation satellites, but now, in the 1990s, remote sensing has reached a new technological and scientific frontier. Advances in Environmental Remote Sensing not only describes recent technological advances but also emphasises the parallel progress that has been made in interpreting and applying data to solve environmental problems. A team of scientists working at the research edge examine applications using examples from their own current work, and identify key paths for the development of remote sensing into the next century. This is an essential book for students of geography, environmental science, ecology, forestry and geology, as well as an important reference tool for anyone interested in applications of remote sensing.

Introduction to Environmental Remote Sensing *Routledge*

Taking a detailed, non-mathematical approach to the principles on which remote sensing is based, this book progresses from the physical principles to the application of remote sensing.

Remote Sensing of the Mine Environment *CRC Press*

A guide for students and professionals, this introductory course book covers the basic principles of

remote sensing and its applications in mine environment monitoring. Building from a reader’s basic knowledge of mine monitoring, it teaches how to implement remote sensing techniques and how to interpret the acquired data for different purposes. Following a general introduction to remote sensing principles and image analysis, mine subsidence monitoring, slope stability monitoring, reclamation planning and implementation, and post-closure mine and land use analysis are explained and illustrated. With the help of case studies, the techniques and tools presented are demonstrated. With an increasing importance of sustainable mining, this accurate text is intended for the education of university students in mining, civil, geological and environmental engineering. Researchers and professionals in these disciplines may find it beneficial as well to guide their professional monitoring investigations.

Advances in Environmental Remote Sensing

Sensors, Algorithms, and Applications *CRC Press*

Generating a satisfactory classification image from remote sensing data is not a straightforward task. Many factors contribute to this difficulty including the characteristics of a study area, availability of suitable remote sensing data, ancillary and ground reference data, proper use of variables and classification algorithms, and the analyst's e

Fundamentals of Satellite Remote Sensing

An Environmental Approach, Second Edition *CRC Press*

Fundamentals of Satellite Remote Sensing: An Environmental Approach, Second Edition is a definitive guide to remote sensing systems that focuses on satellite-based remote sensing tools and methods for space-based Earth observation (EO). It presents the advantages of using remote sensing data for studying and monitoring the planet, and emphasizes concepts that make the best use of satellite data. The book begins with an introduction to the basic processes that ensure the acquisition of space-borne imagery and provides an overview of the main satellite observation systems. It then describes visual and digital image analysis, highlights various interpretation techniques, and outlines their applications to science and management. The latter part of the book covers the integration of remote sensing with GIS for environmental analysis. Based on the first English version published in 2010, this latest edition has been written to reflect a global audience, and factors in international debates and legal issues surrounding EO, as well as future developments and trends. New in the Second Edition: Includes additional illustrations now in full color Uses sample images acquired from different ecosystems at different spatial resolutions to illustrate different interpretation techniques Updates information on recent satellite missions (Landsat-8, Sentinel-2, hyperspectral and hyperspatial programs) Covers near-ground missions (including UAV) and ground sensors (spectro-radiometers, cameras, LIDAR, etc.) to support EO analysis Offers analysis of image spatial properties Presents material on visual analysis, time series analysis, and data fusion Provides examples of EO data that cover different environmental problems, with particular relevance to global observation Fundamentals of Satellite Remote Sensing: An Environmental Approach, Second Edition details the tools that provide global, recurrent, and comprehensive views of the processes affecting the Earth and is a must-have for researchers, academics, students, and professionals involved in the field of environmental science.

Urban Remote Sensing *John Wiley & Sons*

The second edition of Urban Remote Sensing is a state-of-the-art review of the latest progress in the subject. The text examines how evolving innovations in remote sensing allow to deliver the critical information on cities in a timely and cost-effective way to support various urban management activities and the scientific research on urban morphology, socio-environmental dynamics, and sustainability. Chapters are written by leading scholars from a variety of disciplines including remote sensing, GIS, geography, urban planning, environmental science, and sustainability science, with case studies predominately drawn from North America and Europe. A review of the essential and emerging research areas in urban remote sensing including sensors, techniques, and applications, especially some critical issues that are shifting the directions in urban remote sensing research. Illustrated in full color throughout, including numerous relevant case studies and extensive discussions of important concepts and cutting-edge technologies to enable clearer understanding for non-technical audiences. Urban Remote Sensing, Second Edition will be of particular interest to upper-division undergraduate and graduate students, researchers and professionals working in the fields of remote sensing, geospatial information, and urban & environmental planning.

National Environment Satellite, Data, and Information Service

Environmental Modelling with GIS and Remote Sensing *CRC Press*

Most government agencies and private companies are investing significant resources in the production and use of geographical data. The capabilities of Geographical Information Systems (GIS) for data analysis are also improving, to the extent that the potential performance of GIS software and the data available for analysis outstrip the abilities of

Microwave Radiometry and Remote Sensing of The Environment *VSP*

This volume contains a collection of refereed papers which were presented at the Specialist Meeting on Microwave Radiometry and Remote Sensing of the Environment, 14--17 February 1994, Rome, Italy. The last decade has marked a period of steady advancement and new developments in the observation of the terrestrial environment by passive microwave sensors. Both ground-based and satellite-borne systems have improved their accuracy, stability and spatial resolution and are providing a wealth of quantitative data, which are increasingly being employed in application-oriented projects. The contributions in this volume cover different fields of applications of microwave radiometry, the various observation and retrieval techniques and the recent technological developments. The articles are divided into four sections: measurement of atmospheric water vapor and cloud liquid, measurement of rain, observation of the surface, and new radiometric systems.

Remote Sensing Techniques and GIS Applications in Earth and Environmental Studies *JGI Global*

Emerging technologies have enhanced the various uses of geographic information systems. This allows for more effective analysis of available data to optimize resources and promote sustainability. Remote Sensing Techniques and GIS Applications in Earth and Environmental Studies is a critical reference source for the latest research on innovative methods for analyzing geographic data and utilizing sensor technologies for environmental monitoring. Featuring extensive coverage across a range of relevant perspectives and topics, such as land use, geospatial analysis, image interpretation, and site-suitability analysis, this book is ideally designed for engineers, professionals, practitioners, upper-level students, and academics actively involved in the various areas of environmental sciences.

Urban Remote Sensing

Monitoring, Synthesis and Modeling in the Urban Environment *John Wiley & Sons*

Urban Remote Sensing is designed for upper level undergraduates, graduates, researchers and practitioners, and has a clear focus on the development of remote sensing technology for monitoring, synthesis and modeling in the urban environment. It covers four major areas: the use of high-resolution satellite imagery or alternative sources of image date (such as high-resolution SAR and LIDAR) for urban feature extraction; the development of improved image processing algorithms and techniques for deriving accurate and consistent information on urban attributes from remote sensor data; the development of analytical techniques and methods for deriving indicators of socioeconomic and environmental conditions that prevail within urban landscape; and the development of remote sensing and spatial analytical techniques for urban growth simulation and predictive modeling.

Environmental Remote Sensing in Egypt *Springer Nature*

This book presents a comprehensive selection of applications employed in environmental remote sensing using optical and thermal infrared satellite-sensors aiming to map natural resources, crops, groundwater, surface water, aquatic ecosystem, land degradation, air quality, renewable energy, regional resources, and climate-related geophysical processes. The technologies presented in this book also include satellite images, space-borne radar sensors focusing on the most versatile one, data from synthetic aperture radar (SAR), scatterometers and radar altimeters in Egypt. This volume also presents a thorough explanation of the remote sensing role showing physical fundamentals of the climate change phenomenon including gas emissions, and the impact on resources concerning the sustainable development of Egypt. Besides, the book includes an analysis of oil pollution in both Mediterranean and Red Seas This book is intended for environmental policymakers working in Egypt as well as scientists working with remote sensing technologies in highly populated arid regions.

Manual of Remote Sensing, Remote Sensing for Natural Resource Management and Environmental Monitoring *John Wiley & Sons*

Part of an ongoing series of manuals covering the range of applications of remotely sensed imagery, Volume 4 addresses the use of this technology in natural resource management and environmental monitoring. Comprehensive, authoritative, and up-to-date, it covers terrestrial ecosystems, aquatic ecosystems, and agriculture ecosystems, as well as future directions in technology and research.

Remote Sensing of Environmental Changes in Cold Regions *MDPI*

This Special Issue gathers papers reporting recent advances in the remote sensing of cold regions. It includes contributions presenting improvements in modeling microwave emissions from snow, assessment of satellite-based sea ice concentration products, satellite monitoring of ice jam and glacier lake outburst floods, satellite mapping of snow depth and soil freeze/thaw states, near-nadir interferometric imaging of surface water bodies, and remote sensing-based assessment of high arctic lake environment and vegetation recovery from wildfire disturbances in Alaska. A comprehensive review is presented to summarize the achievements, challenges, and opportunities of cold land remote sensing.

Land Remote Sensing and Global Environmental Change

NASA's Earth Observing System and the Science of ASTER and MODIS *Springer Science & Business Media*

Land Remote Sensing and Global Environmental Change: The Science of ASTER and MODIS is an edited compendium of contributions dealing with ASTER and MODIS satellite sensors aboard NASA's Terra and Aqua platforms launched as part of the Earth Observing System fleet in 1999 and 2002 respectively. This volume is divided into six sections. The first three sections provide insights into the history, philosophy, and evolution of the EOS, ASTER and MODIS instrument designs and calibration mechanisms, and the data systems components used to manage and provide the science data and derived products. The latter three sections exclusively deal with ASTER and MODIS data products and their applications, and the future of these two classes of remotely sensed observations.

Remote Sensing for Sustainability *CRC Press*

Driven by the societal needs and improvement in sensor technology and image processing techniques, remote sensing has become an essential geospatial tool for understanding the Earth and managing Human-Earth interactions. Remote Sensing for Sustainability introduces the current state of the art remote sensing knowledge integral for monitoring the world’s natural resources and environments, managing exposure to natural disasters and man-made risks, and helping understand the sustainability and productivity of natural ecosystems. Bridging the gap between remote sensing and sustainability science this book examines theories and methods as well as practical applications of sustainable development for cities using remote sensing; focuses on remote sensing methods and techniques for sustainable natural resources with emphasize on forests; answers questions on how and what the remote sensing methods and techniques can do for the sustainability of environmental systems; and examines the issues of energy use and sustainable energy sources using remote sensing technology in countries such as Germany, China, the U.S, drawing on case studies to demonstrate the applicability of remote sensing techniques. This comprehensive guide, which can serve to professors, researchers, and students alike, takes in consideration the United Nations set of sustainable development goals and intends to contribute to the GEO’s Strategic Plan by addressing and exemplifying a number of societal benefit areas of remote sensing data sets, methods, and techniques for sustainable development.

Textbook of Environmental Remote Sensing *Macmillan*

This book explores the environmental aspects of remote sensing. Satellite remote sensing is an evolving technology with a potential for contributing to studies of human dimensions of global environmental change. The human dimensions of global environment

Remote Sensing & GIS for Environmental Studies

Applications in Geography

The Elements of Style *e-artnow*

The Elements of Style William Strunk concentrated on specific questions of usage—and the cultivation of good writing—with the recommendation "Make every word tell"; hence the 17th principle of composition is the simple instruction: "Omit needless words." The book was also listed as one of the 100 best and most influential books written in English since 1923 by Time in its 2011 list.

Remote Sensing of the Environment: Pearson New International Edition

An Earth Resource Perspective *Pearson Higher Ed*

For one-semester courses in Introductory Remote Sensing as well as Introductory Airphoto Interpretation. This widely adopted book introduces the fundamentals of remote sensing from an earth resource (versus engineering) perspective. Emphasis is on turning remote sensing data into useful spatial biophysical or socio-economic information that can be used to make decisions.

Proceedings of the International Symposium on Remote Sensing of the Environment, ... Thematic Conference

Remote Sensing of the Environment and Radiation Transfer

An Introductory Survey *Springer Science & Business Media*

The interaction of the solar and heat radiation with the atmosphere and surface is the subject of the book. It is useful also for wide circle scientists involved in environmental studies. The book contains the description of 17 computer studying programs supporting different topics of courses. It includes only the base ground for comprehension of key topics and provides the accomplishment of practical works with using specially elaborated computer programs. Themes of practical works reflect main sections of mentioned courses of lectures. The packet of computer programs is added for solution of direct and inverse problems. It promotes deep and reliable comprehension of corresponding topics by students. All described approaches and computer programs are valuable resources for solving radiative transfer problems and they could be used by students for courses and diploma studies concerned atmospheric optics.

Environmental Remote Sensing and GIS in Iraq *Springer Nature*

This unique book focuses on remote sensing (RS) and geographical information systems (GIS) in Iraq. The environmental applications include monitoring and mapping soil salinity and prediction of soil properties, monitoring and mapping of land threats, proximal sensing for soil monitoring and soil fertility, spatiotemporal land use/cover, agricultural drought monitoring, hydrological applications including spatial rainfall distribution, surface runoff and drought control, geo-morphometric analysis and flood simulation, hydrologic and hydraulic modelling and the effective management of water resources. Also, this book assesses the impacts of climate change on natural resources using both RS and GIS, as well as other applications, covering different parts of Iraq. The book chapters include tens of maps extracted from the remotely sensed datasets, in addition to tables and statistical relations obtained from the results of the studies of the chapters' authors. These studies have been conducted in different parts of Iraq; in the north (Kurdistan region) with its mountainous and undulating lands, in western parts which have desert soils, and in central and southern Iraq where there are salty soils, dunes, wetlands, and marshes. The book is written by distinguished scientists from Iraq, China, USA, Italy, Iran, Germany, and the Czech Republic who are interested in the Iraqi environment. The book is therefore a useful source of information and knowledge on Iraqi environment for graduate students, researchers, policy planners, and stakeholders in Iraq as well as similar regions.

Remote Sensing of Natural Resources *CRC Press*

Highlighting new technologies, Remote Sensing of Natural Resources explores advanced remote sensing systems and algorithms for image processing, enhancement, feature extraction, data fusion,

image classification, image-based modeling, image-based sampling design, map accuracy assessment and quality control. It also discusses their applications for

Global Environment Remote Sensing *IOS Press*

At the beginning of the 21st century the world still faces various global environmental issues. Examples include the rise in atmosperic temperature due to the increase of atmosperic carbon dioxide, the depletion of the ozone layer and El Nino related climatic anomalies. Remote sensing technologies that use electromagnetic waves are quite useful in measuring physical parameters which describe global environments. This book covers the theory of electromagnetic remote sensing and the basic technologies used.

Advanced Environmental Monitoring with Remote Sensing Time Series Data and R *CRC Press*

This book provides a step-by-step guide on how to use various publicly available remotely sensed time series data sources for environmental monitoring and assessment. Readers will learn how to extract valuable information on global changes from a 20-year collection of ready-to-use remotely sensed data through the free open statistical software R and its geographic data analysis and modeling tools. The case studies are from the Mediterranean region—a designated hot spot regarding climate change effects. Each chapter is dedicated to specific remote sensing products chosen for their spatial resolution. The methods used are adapted from large-scale to smaller-scale problems for different land cover areas. Features Includes real-world applications of environmental remotely sensed data Analyzes the advantages and restrictions of each data source Focuses on a wide spectrum of applications, such as hydrology, vegetation changes, land surface temperature, fire detection, and impacts Includes R computer codes with explanatory comments and all applications use only freely available remotely sensed data Presents a step-by-step processing through open source GIS and statistical analysis software Advanced Environmental Monitoring with Remote Sensing Time Series Data and R describes and provides details on recent advances concerning publicly available remotely sensed time series data in environmental monitoring and assessment. This book is a must-have practical guide for environmental researchers, professionals, and students.

Environmental Remote Sensing and GIS in Tunisia *Springer Nature*

This book focuses on monitoring and assessing various environmental processes in Tunisia using state-of-the-art remote sensing and GIS technologies. In addition to addressing the diversity of Tunisian landscapes and providing spatial analysis of natural, cultivated and urbanized environments. It presents and discusses several case studies on integrated RS / GIS approaches for mapping, modeling, monitoring and evaluation. Moreover, in this volume authored by experts in the topic from Tunisia and other countries, authors assess the agro-environmental applications from Tunisia and offer different methods and applications to environmental processes and risks including drought, degradation, flood, planning, Yield estimation, dust storm detection, dry land vulnerability, wetland dynamics and others. The material presented here will help decision-makers plan sustainable landscape and agricultural management policies that preserve biodiversity and contribute to achieving sustainability goals and for researchers, it will expose methodological approaches used in different fields of research. Graduate students and Practionioner engineers working in the field of RS/GIS will also benefit from the book. The book ends with a set of conclusions and recommendations to support researchers underscoring the need for further research in this area.