



Review Article

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Remote Sensing and GIS Application in Agriculture and Natural Resource Management



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Abstract

Agriculture plays a vital role in every nation economy every nation. It represents a substantial trading industry for an economically strong country. Remote sensing and Geographic information system used to analyze and visualize agricultural environments has proved to be very beneficial to farming community as well as industry. In this paper I tried to overview application of remote sensing and geographic information systems in agriculture and natural resource management. Reliable and timely information on types of crops grown, their area and expected yield is importance for government for agriculturally based country. Applications of different remote sensing techniques are important for crop monitoring, crop condition assessment and yield estimation for sustainability of agriculture and natural resources. The spectral information is the important aspect of remote sensing data for crop modeling and it is strongly related with canopy parameters which are the representative of crop health and crop growth stages. Remote sensing and GIS can also be used very effectively in land use / land cover analysis as well as damage assessment because of drought, floods and other extreme weather events. Information on meteorology and vegetation are the two major important inputs into agricultural meteorology Applications of remote sensing technologies are important and effective method to identify pest-infested and disease. It is one of the effective tools for assessing and monitoring the water resources.

Keywords: Crop inventory, Flood monitoring, Nutrient, Geographical information system, Remote sensing

Introduction

Agriculture plays a vital role in every nation economy. It represents a substantial trading industry for an economically strong country. Production of food in a cost-effective manner is the essential goal of every farmer, large-scale farm manager and regional agricultural agency. Remote sensing and Geographic information system used to analyze and visualize agricultural environments has proved to be very beneficial to farming community as well as industry. It plays great role in agriculture throughout the world by helping farmers in increasing production, reducing costs and managing their land more efficiently. Geographic information systems (GIS) has been widely applied and been recognized as effective and powerful tool in detecting land cover and land use change [1]. Using remote sensing and GIS are important to understand the health of crop, extent of infestation, potential yield and soil conditions. It applied to explore agricultural applications such as crop identification, area estimation, crop condition assessment, soil moisture estimation, yield estimation, agriculture water management, agro meteorological etc.

Applications of remote sensing in agriculture including major important things such as; biomass and yield estimation, vegetation vigor and drought stress monitoring, assessment of

crop phenological development, crop acreage estimation and cropland mapping, mapping of disturbances and land use land cover changes in addition to precision agriculture and irrigation management [2]. GIS based mapping application can help to identify location of crops growing across the country and to adapt different variables, monitor the health of individual crops, estimate yields from a given field, and maximize crop production. By using land-use and primary food crop statistics, along with data collected by different tools including mobile devices able to identify areas in need and underlying causes of food insecurity. GIS is an instrumental in the efforts to end global hunger and it is an integral part of automated field operations.

Using data collected from remote sensors, and from sensors mounted directly on farm machinery, farmers have improved decision-making capabilities for planning their cultivation to maximize yields. Previous crop yields, terrain specifics, organic matter content, pH, moisture, and nutrient levels of the soil all add in proper preparation for precise farming. Combine harvesters equipped with GPS tracking units can measure crop yields along with crop quality values like plant water content and chlorophyll levels in real time and at the exact location in the field from which they are harvested. Rapidly emerging

Remote Sensing Gis Natural Res

William J. Ripple



Remote Sensing Gis Natural Res:

Remote Sensing of Natural Resources Guangxing Wang,Qihao Weng,2013-07-12 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 evaluation of natural resources including sampling design land use and land cover classification natural landscape and ecosystem assessment forestry agriculture biomass and carbon cycle modeling wetland classification and dynamics monitoring and soils and minerals mapping The book combines review articles with case studies that demonstrate recent advances and developments of methods techniques and applications of remote sensing with each chapter on a specific area of natural resources Through a comprehensive examination of the wide range of applications of remote sensing technologies to natural resources the book provides insight into advanced remote sensing systems technologies and algorithms for researchers scientists engineers and decision makers

Remote Sensing and GIS for Natural Resource Management Clare H. Power,L. J. Rosenberg,I. Downey,1996 The global demand for environmental status and impact monitoring has resulted in an increasing need for resource managers and practitioners of remote sensing and GIS technology to work closely together In catering for this need this publication reports on a one day technical workshop which brought together both users and practitioners of remote sensing and GIS in natural resource management in order to gain awareness of other activities and to discuss the issues problems and solutions they have found Geospatial Technology for Natural Resource Management Shruti Kanga,Gowhar Meraj,Suraj Kumar

Singh,Majid Farooq,M. S. Nathawat,2024-11-20 This book is essential for anyone interested in understanding and implementing sustainable resource development strategies as it covers the crucial first stage of assessing resource availability and condition along with the use of modern geospatial technologies such as remote sensing GIS and GPS for surveying mapping and monitoring various resources for global environmental protection and sustainable development The first step in developing a sustainable resource strategy is assessing the availability and condition of resources This involves evaluating baseline levels identifying trends and understanding their consequences Mitigation policies are then developed based on this assessment Modern geospatial technologies like Remote Sensing RS Geographic Information Systems GIS and Global Positioning Systems GPS offer powerful tools for surveying mapping and monitoring both renewable and nonrenewable resources These technologies support global environmental protection disaster management and sustainable development by providing repetitive and global data GPS provides accurate geographic coordinates while GIS allows visualization analysis and decision making through spatial data enabling the study of complex environmental and natural resource challenges at various scales Textbook on Remote Sensing in Natural Resources Monitoring and Management

Chaitanya S. Agarwal,Pradeep K. Garg,2002 Remote Sensing J D Greer,1996-09-30 **Advances in Environmental**

Sustainability, Energy and Earth Science Pankaj Pathak, Sadia Ilyas, Rajiv Ranjan Srivastava, Javid Dar, Subashree Kothandaraman, 2024-11-25 This book presents the proceedings of the 1st International Conference on Advances in Environmental Sustainability Energy and Earth Science AESEE 2024 held on March 14-16 in Amaravati Andhra Pradesh India. The conference offers a platform to discuss frontier areas of research and disseminate scientific information in the fields of environmental sustainability, energy, and earth science, and it also offers an opportunity to learn and connect with the leading experts from academia, industry, policy makers, scientists, and other professionals. These proceedings report on environmental challenges and the latest sustainable solutions by discussing biodiversity, climate action, water resources, biogeochemistry, biotechnology, and perspectives from diverse fields. The book outlines cutting-edge solutions like carbon sequestration strategies and smart agricultural practices, emphasizing the role of innovation in achieving sustainability goals. Particular attention is given to green technologies and applications of biotechnology for pollution prevention. The inclusion of topics such as Women in Science Engineering underscores the importance of diversity in environmental research. The book not only outlines scientific advancements but also recognises and celebrates the contributions of underrepresented groups promoting inclusivity in the pursuit of sustainable solutions for the future. This book has a broad appeal and students, researchers, professionals, and policymakers interested in the fields of environmental sustainability, energy, and earth science will find it a valuable account.

[The GIS Applications Book](#) William J. Ripple, 1994 Introduces applications in GIS compreendendo modelagem e avalia o recursos naturais ecologia da paisagem vida selvagem uso da terra e diversidade biológica

Remote Sensing of Water Resources, Disasters, and Urban Studies Ph.D., Prasad S. Thenkabail, 2015-10-02 This book is the most comprehensive documentation of the scientific and methodological advances that have taken place in understanding remote sensing data methods and applications over last 50 years. In a very practical way, it demonstrates the experience, utility, methods, and models used in studying a wide array of water applications. There are more than 100 leading global experts in the field contributing to this work.

National Conservation Training Center Catalog of Training National Conservation Training Center (U.S. Fish and Wildlife Service), [Proceedings of the 2023 International Conference on Management Innovation and Economy Development \(MIED 2023\)](#) Luiz Moutinho, Carlos Flaviano, Rita Yi Man Li, Qiwei Zhou, 2023-10-29 This is an open access book. Management innovation is the secret to success for companies and governments. Management breakthroughs can deliver a solid advantage for innovating organizations. On the other hand, Management Innovation is essential for society's economy growth. But what is management innovation? How to achieve economy development in many fields? The following international conference will answer and discuss those questions. The 2023 International Conference on Management Innovation and Economy Development MIED 2023 will be held on July 28-30, 2023, in Qingdao, China. The conference mainly focused on research fields such as management innovation and economy development. MIED 2023 provides an open platform that brings worldwide scholars together to present current research and

stimulate new growth in management and economy MIED 2023 invites papers from all areas of management innovation and economy development And We sincerely invite experts scholars business people and other relevant people from universities and scientific research institutions from all over the world to attend the conference Land Use, Land Cover and Soil Sciences - Volume I Willy H. Verheye,2009-09-09 This Encyclopedia of Land Use Land Cover and Soil Sciences is a component of the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias Land is one of our most precious assets It represents space provides food and shelter stores and filters water and it is a base for urban and industrial development road construction leisure and many other social activities Land is however not unlimited in extent and even when it is physically available its use is not necessarily free either because of natural limitations too cold too steep too wet or too dry etc or because of constraints of access or land tenure This 7 volume set contains several chapters each of size 5000 30000 words with perspectives applications and extensive illustrations It carries state of the art knowledge in the fields of Land Use Land Cover and Soil Sciences and is aimed by virtue of the several applications at the following five major target audiences University and College Students Educators Professional Practitioners Research Personnel and Policy Analysts Managers and Decision Makers and NGOs *Advanced Methods for Interpreting Geological and Geophysical Data* Ahmed M. Eldosouky,Luan Thanh Pham,David Gomez-Ortiz,Saulo Oliveira ,Ahmed Henaish,2024-07-08 The introduction and application of advanced geological and geophysical methods can solve many problems related to geoscience This Research Topic gives a thorough treatment of the interpretation of geological and geophysical data through advanced techniques and integrated approaches It aims to create a more reliable integration of various geological and geophysical data in an exploration and new findings context weighing the strengths and limitations of the various methods in order to develop geophysical and geological models It will also focus on the interpretation techniques for evaluating structural and sedimentological stratigraphical processes with applications within resource exploration geohazards seismology seabed ecology and global climate **Geospatial Technologies for Effective Land Governance** El-Ayachi, Moha,El Mansouri, Loubna,2018-10-12 Land as a fundamental resource in regional development provides major opportunities for farming housing urban planning and financing In order to meet the requirements of the new era every state has developed and implemented a series of policies according to its national specificities and to the international regulations and trends Geospatial Technologies for Effective Land Governance is a pivotal reference source that provides vital research on the application of the use of GNSS remote sensing and GIS While highlighting topics such as crop management multispectral images and irrigation this publication explores land administration encompassing both cadastral systems and land registration as well as the methods of land governance strategies This book is ideally designed for researchers agricultural professionals engineers environmentalists land developers educators students and policymakers seeking current research on land and land based conflicts in urban and rural communities **Manual of Remote Sensing, Remote**

Sensing for Natural Resource Management and Environmental Monitoring Susan L. Ustin, 2004-05-03 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

Agricultural Research for Sustainable Food Systems in Sri Lanka Ranjith Premalal De Silva, Gamini Pushpakumara, Pahan Prasada, Jeevika Weerahewa, 2020-10-06 Food systems involve a range of activities concerning food production processing distribution marketing and trade preparation consumption and disposal They encompass the path of food from the farm to the dinner table meeting the food and nutritional needs of a nation When such systems do so without sacrificing the needs of future generations they are referred to as Sustainable Food Systems The natural and physical environment infrastructure institutions society and culture and policies and regulations within which they operate as well as the technologies they adopt shape these systems outcomes Making food systems more sustainable is a key priority for all nations and Sri Lanka is no exception Food systems deliver optimal performance when the policy and regulatory environment is conducive institutions are supportive and a combination of agricultural research investments and an efficient extension system generates the technologies and scientific evidence required for sound policymaking and agenda setting Further agricultural research can generate essential findings technologies and policies for sustainable agricultural development across disciplines sectors and stakeholder groups This book shares valuable insights into research conducted in the broad food and agriculture sectors in Sri Lanka It also discusses the status quo in related disciplines and outlines future research directions Accordingly it offers a valuable source of reference material for researchers students and stakeholders in the food and agriculture sectors while also highlighting the types of support that policymakers and other decision makers can provide

Spatial Information Technology for Sustainable Development Goals Dilip Kumar, R.B. Singh, Ranjeet Kaur, 2019-08-08 This textbook aims to develop a scientific knowledge base on spatial information technology to communicate the United Nations Sustainable Development Goals SDGs among students researchers professionals and laymen The book improves understanding of the spatial database and explains how to extract information from this for planning purposes To enhance the knowledge of geoscientists and environmentalists the book describes the basic fundamental concepts to advance techniques for spatial data management and analysis and discusses the methodology The Geographic Information System GIS remote sensing and Global Positioning System GPS are presented in an integrated manner for the planning of resources and infrastructure The management of these systems is discussed in a very lucid way to develop the reader's skills The proper procedure for map making and spatial analysis are included along with case studies to the reader Where the first part of the book discusses the conceptual background the second part deals with case studies using these applications in different disciplines The presented case studies include land use agriculture flood watershed characterization and infrastructure

assessment for the Sustainable Development Goals Spatial Diversity and Dynamics in Resources and Urban Development
Ashok K. Dutt, Allen G. Noble, Frank J. Costa, Sudhir K. Thakur, Rajiv Thakur, Hari S. Sharma, 2015-10-15 This double volume work focuses on socio demographics and the use of such data to support strategic resource management and planning initiatives. Papers go beyond explanations of methods, technique and traditional applications to explore new intersections in the dynamic relationship between the utilization and management of resources and urban development. International authors explore numerous experiences, characteristics of development and decision making influences from across Asia and Southeast Asia as well as recounting examples from America and Africa. Papers propound techniques and methods used in geographical research such as support vector machines, socio economic correlates and travel behaviour analysis. In this volume, the contributions examine issues such as natural resource and environmental management, livelihoods issues in the context of climate change, land markets and land trusts, adaptive management of wildlife sanctuaries, ground water scarcity, flood hazards and flood plain management, non conventional energy resources, community forestry and management and land use and land cover change. The significance of these topics lie in the pace and volume of change as is reflected through continued development within established fields of inquiry and the introduction of significantly new approaches during the last decade. Readers are invited to consider the dynamics of spatial expansion of urban areas and economic development and to explore conceptual discussion of the innovations in and challenges on urbanization processes, urban spaces themselves and both resource management and environmental management. Together the two volumes contribute to the interdisciplinary literature on regional resources and urban development by collating recent research with geography at its core. Scholars of urban geography, human geography, urbanism and sustainable development will be particularly interested in this book.

Digital Soil Mapping, 2006-12-18 The book compiles the main ideas and methodologies that have been proposed and tested within these last fifteen years in the field of Digital Soil Mapping (DSM). Beginning with current experiences of soil information system developments in various regions of the world, this volume presents states of the art of different topics covered by DSM: Conception and handling of soil databases, sampling methods, new soil spatial covariates, Quantitative spatial modelling, Quality assessment and representation of DSM outputs. This book provides a solid support to students, researchers and engineers interested in modernising soil survey approaches with numerical techniques. It is also of great interest for potential soil data users. A new concept to meet the worldwide demand for spatial soil data. The first compilation of ideas and methodologies of Digital Soil Mapping. Offers a variety of specialities: soil surveying, geostatistics, data mining, fuzzy logic, remote sensing techniques. Geographical Information Science. Written by 82 researchers from 13 different countries.

GIScience for the Sustainable Management of Water Resources Gowhar Meraj, Shruti Kanga, Majid Farooq, Suraj Kumar Singh, Sudhanshu, 2022-12-22 Water is one of the most critical resources of nature that is necessary for sustaining life for all living things. This volume discusses in detail a selection of geospatial approaches, tools and techniques for

understanding the root causes behind the degradation of our water resources Satellite remote sensing provides essential data for mapping water resources hydrology flux measurement monitoring drought and flood inundation With an abundance of informative case studies this volume discusses the use of the satellite remote sensing and GIS based systems for managing urban storm water for flood and soil erosion management for mapping groundwater zones for crop production including measuring soil moisture and aridity for gauging the impact of climate change for evaluating glacier change dynamics for assessing the impact of urban growth on water resources for measuring the degradation of rivers and more

Deep Learning for Multimedia Processing Applications Uzair Aslam Bhatti,Huang Mengxing,Jingbing Li,Sibghat Ullah Bazai,Muhammad Aamir,2024-02-21 Deep Learning for Multimedia Processing Applications is a comprehensive guide that explores the revolutionary impact of deep learning techniques in the field of multimedia processing Written for a wide range of readers from students to professionals this book offers a concise and accessible overview of the application of deep learning in various multimedia domains including image processing video analysis audio recognition and natural language processing Divided into two volumes Volume Two delves into advanced topics such as convolutional neural networks CNNs recurrent neural networks RNNs and generative adversarial networks GANs explaining their unique capabilities in multimedia tasks Readers will discover how deep learning techniques enable accurate and efficient image recognition object detection semantic segmentation and image synthesis The book also covers video analysis techniques including action recognition video captioning and video generation highlighting the role of deep learning in extracting meaningful information from videos Furthermore the book explores audio processing tasks such as speech recognition music classification and sound event detection using deep learning models It demonstrates how deep learning algorithms can effectively process audio data opening up new possibilities in multimedia applications Lastly the book explores the integration of deep learning with natural language processing techniques enabling systems to understand generate and interpret textual information in multimedia contexts Throughout the book practical examples code snippets and real world case studies are provided to help readers gain hands on experience in implementing deep learning solutions for multimedia processing Deep Learning for Multimedia Processing Applications is an essential resource for anyone interested in harnessing the power of deep learning to unlock the vast potential of multimedia data

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