

# WHAT IS REMOTE SENSING?



# Digital Remote Sensing

**John R. Jensen**



## **Digital Remote Sensing:**

*Remote Sensing Digital Image Analysis* John A. Richards, 2012-12-06 Possibly the greatest change confronting the practitioner and student of remote sensing in the period since the first edition of this text appeared in 1986 has been the enormous improvement in accessibility to image processing technology. Falling hardware and software costs combined with an increase in functionality through the development of extremely versatile user interfaces has meant that even the user unskilled in computing now has immediate and ready access to powerful and flexible means for digital image analysis and enhancement. An understanding at algorithmic level of the various methods for image processing has become therefore even more important in the past few years to ensure the full capability of digital image processing is utilised. This period has also been a busy one in relation to digital data supply. Several nations have become satellite data gatherers and providers using both optical and microwave technology. Practitioners and researchers are now faced therefore with the need to be able to process imagery from several sensors together with other forms of spatial data. This has been driven to an extent by developments in Geographic Information Systems (GIS) which in turn have led to the appearance of newer image processing procedures as adjuncts to more traditional approaches. **Digital Remote Sensing** Prithvish Nag, M. Kudrat, 1998

**Introductory Digital Image Processing** John R. Jensen, 2015-04-17 For junior graduate level courses in Remote Sensing in Geography, Geology, Forestry and Biology. *Introductory Digital Image Processing: A Remote Sensing Perspective* focuses on digital image processing of aircraft and satellite derived remotely sensed data for Earth resource management applications. Extensively illustrated, it explains how to extract biophysical information from remote sensor data for almost all multidisciplinary land-based environmental projects. Part of the Pearson Series Geographic Information Science. Now in full color, the Fourth Edition provides up-to-date information on analytical methods used to analyze digital remote sensing data. Each chapter contains a substantive reference list that can be used by students and scientists as a starting place for their digital image processing project or research. A new appendix provides sources of imagery and other geospatial information.

**Digital Analysis of Remotely Sensed Imagery** Jay Gao, 2008-12-22 Jay Gao's book on the analysis of remote sensing imagery is a well-written, easy-to-read and informative text, best serving graduate students in geosciences and practitioners in the field of digital image analysis. Although Dr. Gao states that he has targeted his book at upper-level undergraduates and lower-level postgraduate students, its rigor and depth of mathematical analysis would challenge most students without prior experience in remote sensing and college-level mathematics. The book covers a lot of ground, quickly beginning with a basic explanation of pixels, digital numbers, and histograms, and advancing rapidly through a description of the most well-known satellite systems to data storage formats, rectification, and classification. It best serves students who have already taken an introductory course in remote sensing. Following a three-chapter description of the basics, the remaining eleven chapters are dedicated to the description of the most common image processing systems and the details of the image analysis functions.

which can be carried out The largest portion of the text covers classification spectral and spatial neural networks decision trees and expert systems and is an invaluable reference to anyone interested in understanding image analysis terminology and the algorithms behind these different systems The last chapter of the text is addressed to practitioners wishing to integrate remote sensing image data with GIS and or GPS data The text is nicely structured so that individual chapters can easily be skipped when their content is not of interest to the reader without impairing the understanding of later chapters The first three chapters of the book cover introductory material that the reader should be familiar with for the most part but also includes a very handy summary of today s satellite systems Chapter one addresses basic material such as pixel DN coordinates feature space histograms and spatial spectral temporal and radiometric resolution normally covered in an introductory course in remote sensing Chapter two presents a very informative and up to date overview of today s satellite instruments including meteorological oceanographic earth resources hyperspectral and radar instruments Instrument and orbital parameters are presented in tabular form and make it easy to look up technical details such as spectral and spatial resolution orbit type repeat cycle and other instrument characteristics quickly Written explanations are clear readable and provide lots of interesting insight and useful tidbits of information such as potential problems and the cost of imagery For technicians and programmers the third chapter provides details on storage formats including descriptions of BSQ BIL and BIP binary formats and the most common graphics formats like GIF TIFF and JPEG together with data compression techniques Non technicians can skip this chapter since image processing software will generally take care of format conversions internally without a need for understanding the nuances of each Chapters four will be of interest to anyone considering the purchase of image processing software or trying to understand the differences between systems Gao provides a useful overview of existing software IDRISI ERDAS Imagine ENVI ER Mapper PCI eCognition and GRASS A brief history of each provides useful background and a discussion of the features of each together with a comparison also given in tabular form is informative to anyone considering a purchase Chapter five can also be viewed as a stand alone reference on rectification but also serves as an excellent overview of the problems of dealing with mapping on a curved surface and has particular application for geographers and cartographers It discusses the sources of geometric distortion coordinated systems and projections how image rectification is done including the use of ground control points and implications for the order of transformation employed There is a nice example showing how accuracy is influenced by the number of GCPs employed for SPOT and Landsat TM For non technical students the transformation mathematics can be skipped A rather minimal section on image subsetting and mosaicking is included Chapter six continues in much the same vein as the previous chapter but discussing image enhancement techniques that improve the visual quality of an image The terms introduced here such as density slicing linear enhancement stretching and histogram equalization will be familiar to users of image processing software and Gao provides a useful explanation of each in turn Other application oriented utilities such as band

ratioing vegetation indices IHS and Tasseled Cap transformations and principal component analysis are presented in a form which is understandable to students with good mathematical grounding The remainder of the text deals to a large extent with the topic of classification Chapter seven initially discusses elements of image interpretation but then devotes the chapter to a detailed presentation of the most common and affordable of these spectral analysis Gao presents the different algorithms used to define spectral distance and then devotes text to a discussion of the inner workings of unsupervised classification systems The section on supervised classification is a very useful reference for anyone undertaking this process describing how to set about the classification process the differences between the different classifiers and how to choose an appropriate one The concepts of fuzzy logic and sub pixels classifiers are also presented briefly From this point on the text becomes much more specialized and technical and is geared towards graduate students those carrying out research projects and those interested in algorithmic detail Chapter 8 is the first dealing with artificial intelligence and describes the fundamentals of neural networks It provides sufficient information for a technically minded non specialist to understand the workings of such a system and serves as a good introduction to someone who is considering this field of research Chapter nine offers an explanation of decision trees with both a descriptive verbal approach and with mathematical algorithmic detail Chapter ten addresses spatial classifiers in particular the analysis of texture This chapter again leans more heavily towards mathematics and the detail is more suited to readers with a strong technical bent Gao goes on to discuss the process of image segmentation and thence the fundamentals of object oriented classification There is a useful overview of two popular software packages eCognition and Feature Analyst together with a discussion of the strengths and weaknesses of object based classification Chapter eleven presents an overview of expert systems This is an advanced field of artificial intelligence and is an ambitious undertaking to describe in fifty or so pages It is an interesting read for someone trying to gain a superficial knowledge of the workings of such a system and the associated terminology but for anyone wishing to work in the field a much more in depth coverage is necessary At this point the student who was just trying to understand the basics of image processing and classification and who skipped chapters eight through eleven should resume reading as the last three chapters provide very helpful practical information Chapter twelve provides a useful discussion on the methodology for assessing the accuracy of a classification and includes sources of inaccuracy and interpretation of an error matrix It provides worked examples of accuracy assessments using simple math This is a valuable addition to the text and presents an important process that is often overlooked in reporting classification results Chapters thirteen and fourteen also deal with very practical matters Chapter thirteen describes procedures for handling the analysis of temporal changes via a variety of change detection algorithms and chapter fourteen introduces the use of GIS and GPS data in image analysis Dr Gao has written an excellent text describing technical information in a very readable manner His book will serve as a good text for a course in remote sensing image analysis assuming that the student has received instruction in the fundamentals of remote

sensing and been introduced to some image processing software Students wishing to become adept at the practicalities of fundamental image processing skills and classification can easily skip the mid section of the text whereas those who are keen to learn about more sophisticated classifiers will gain the fundamentals of these from this section Overall I found the book very informative and a pleasure to read Reviewed by Helen M Cox PhD Associate Professor Department of Geography California State University Northridge

*Remote Sensing Digital Image Analysis* John A. Richards,2022-01-06 Remote Sensing Digital Image Analysis provides a comprehensive treatment of the methods used for the processing and interpretation of remotely sensed image data Over the past decade there have been continuing and significant developments in the algorithms used for the analysis of remote sensing imagery even though many of the fundamentals have substantially remained the same As with its predecessors this new edition again presents material that has retained value but also includes newer techniques covered from the perspective of operational remote sensing The book is designed as a teaching text for the senior undergraduate and postgraduate student and as a fundamental treatment for those engaged in research using digital image analysis in remote sensing The presentation level is for the mathematical non specialist Since the very great number of operational users of remote sensing come from the earth sciences communities the text is pitched at a level commensurate with their background The chapters progress logically through means for the acquisition of remote sensing images techniques by which they can be corrected and methods for their interpretation The prime focus is on applications of the methods so that worked examples are included and a set of problems conclude each chapter

*Remote Sensing Digital Image Analysis* John Alan Richards,Xiuping Jia,1999 Remote Sensing Digital Image Analysis provides the non specialist with an introduction to quantitative evaluation of satellite and aircraft derived remotely retrieved data Each chapter covers the pros and cons of digital remotely sensed data without detailed mathematical treatment of computer based algorithms but in a manner conducive to an understanding of their capabilities and limitations Problems conclude each chapter This fourth edition has been developed to reflect the changes that have occurred in this area over the past several years Its focus is on those procedures that seem now to have become part of the set of tools regularly used to perform thematic mapping As with previous revisions the fundamental material has been preserved in its original form because of its tutorial value its style has been revised in places and it has been supplemented if newer aspects have emerged in the time since the third edition appeared It still meets however the needs of the senior student and practitioner

**Remote Sensing Digital Image Analysis: An Introduction** Xiuping Jia John A. Richards,2008 **Introductory remote sensing** Paul J. Gibson,Clare H. Power,2000 [Remote Sensing and Digital Image Processing with R](#) Marcelo de Carvalho Alves,Luciana Sanches,2023-06-30 This new textbook on remote sensing and digital image processing of natural resources includes numerous practical problem solving exercises and applications of sensors and satellite systems using remote sensing data collection resources and emphasizes the free and open source platform R It explains basic concepts of remote sensing and

multidisciplinary applications using R language and R packages by engaging students in learning theory through hands on real life projects All chapters are structured with learning objectives computation questions solved exercises resources and research suggestions Features Explains the theory of passive and active remote sensing and its applications in water soil vegetation and atmosphere Covers data analysis in the free and open source R platform which makes remote sensing accessible to anyone with a computer Includes case studies from different environments with free software algorithms and an R toolset for active learning and a learn by doing approach Provides hands on exercises at the end of each chapter and encourages readers to understand the potential and the limitations of the environments remote sensing targets and process Explores current trends and developments in remote sensing in homework assignments with data to further explore the use of free multispectral remote sensing data including very high spatial resolution data sources for target recognition with image processing techniques While the focus of the book is on environmental and agriculture engineering it can be applied widely to a variety of subjects such as physical natural and social sciences Students in upper level undergraduate or graduate programs taking courses in remote sensing geoprocessing civil and environmental engineering geosciences environmental sciences electrical engineering biology and hydrology will also benefit from the learning objectives in the book Professionals who use remote sensing and digital processing will also find this text enlightening

**Digital Image Processing in Remote Sensing** Jan-Peter Muller,1988 **Digital Image Processing of Remotely Sensed Data** R.M. Hord,1982-01-01 Digital Image Processing of Remotely Sensed Data presents a practical approach to digital image processing of remotely sensed data with emphasis on application examples and algorithms It explains where to get the data and what is available and what preprocessing is needed to prepare the imagery for processing Research topics are described to indicate the limitations of computer methods This book is comprised of seven chapters and begins with a summary of basic concepts used in remote sensing and digital imagery followed by a discussion on sources of remotely sensed data Two essential hardware ingredients in a digital image processing system a computer and a display device are then considered along with the algorithms used in digital image processing Examples of how digital image processing algorithms have been applied to real imagery for specific objectives are given including the Kentucky water impoundment experiment and the land use mapping initiative in Washington D C The next section is devoted to research topics such as digital image shape detection edge detection and regionalized terrain classification from satellite photography and digital image enhancement for maximum interpretability using linear programming This monograph will be of value to professional regional planners natural resource managers and others in fields ranging from hydrology and forestry to agronomy and geology

**Remote Sensing and Digital Image Processing with R - Lab Manual** Marcelo de Carvalho Alves,Luciana Sanches,2023-06-30 This Lab Manual is a companion to the textbook Remote Sensing and Digital Image Processing with R It covers examples of natural resource data analysis applications including numerous practical problem solving exercises and case studies that use the free and

open source platform R The intuitive structural workflow helps students better understand a scientific approach to each case study in the book and learn how to replicate transplant and expand the workflow for further exploration with new data models and areas of interest Features Aims to expand theoretical approaches of remote sensing and digital image processing through multidisciplinary applications using R and R packages Engages students in learning theory through hands on real life projects All chapters are structured with solved exercises and homework and encourage readers to understand the potential and the limitations of the environments Covers data analysis in the free and open source R platform which makes remote sensing accessible to anyone with a computer Explores current trends and developments in remote sensing in homework assignments with data to further explore the use of free multispectral remote sensing data including very high spatial resolution information Undergraduate and graduate level students will benefit from the exercises in this Lab Manual because they are applicable to a variety of subjects including environmental science agriculture engineering as well as natural and social sciences Students will gain a deeper understanding and first hand experience with remote sensing and digital processing with a learn by doing methodology using applicable examples in natural resources

**Big Data for Remote Sensing: Visualization, Analysis and Interpretation** Nilanjan Dey,Chintan Bhatt,Amira S. Ashour,2018-05-23 This book thoroughly covers the remote sensing visualization and analysis techniques based on computational imaging and vision in Earth science Remote sensing is considered a significant information source for monitoring and mapping natural and man made land through the development of sensor resolutions that committed different Earth observation platforms The book includes related topics for the different systems models and approaches used in the visualization of remote sensing images It offers flexible and sophisticated solutions for removing uncertainty from the satellite data It introduces real time big data analytics to derive intelligence systems in enterprise earth science applications Furthermore the book integrates statistical concepts with computer based geographic information systems GIS It focuses on image processing techniques for observing data together with uncertainty information raised by spectral spatial and positional accuracy of GPS data The book addresses several advanced improvement models to guide the engineers in developing different remote sensing visualization and analysis schemes Highlights on the advanced improvement models of the supervised unsupervised classification algorithms support vector machines artificial neural networks fuzzy logic decision making algorithms and Time Series Model and Forecasting are addressed This book guides engineers designers and researchers to exploit the intrinsic design remote sensing systems The book gathers remarkable material from an international experts panel to guide the readers during the development of earth big data analytics and their challenges

**Remote Sensing** Floyd F. Sabins, Jr.,James M. Ellis,2020-04-01 Remote sensing has undergone profound changes over the past two decades as GPS GIS and sensor advances have significantly expanded the user community and availability of images New tools such as automation cloud based services drones and artificial intelligence continue to expand and enhance the discipline Along with comprehensive

coverage and clarity Sabins and Ellis establish a solid foundation for the insightful use of remote sensing with an emphasis on principles and a focus on sensor technology and image acquisition The Fourth Edition presents a valuable discussion of the growing and permeating use of technologies such as drones and manned aircraft imaging DEMs and lidar The authors explain the scientific and societal impacts of remote sensing review digital image processing and GIS provide case histories from areas around the globe and describe practical applications of remote sensing to the environment renewable and nonrenewable resources land use land cover natural hazards and climate change Remote Sensing Digital Database includes 27 examples of satellite and airborne imagery that can be used to jumpstart labs and class projects The database includes descriptions georeferenced images DEMs maps and metadata Users can display process and interpret images with open source and commercial image processing and GIS software Flexible revealing and instructive the Digital Image Processing Lab Manual provides 12 step by step exercises on the following topics an introduction to ENVI Landsat multispectral processing image processing band ratios and principal components georeferencing DEMs and lidar IHS and image sharpening unsupervised classification supervised classification hyperspectral and change detection and radar Introductory and instructional videos describe and guide users on ways to access and utilize the Remote Sensing Digital Database and the Digital Image Processing Lab Manual Answer Keys are available for instructors for questions in the text as well as the Digital Image Processing Lab Manual

**Remote Sensing for GIS Managers** Stanley Aronoff,2005 How to use remote sensing technology as geographic data is demonstrated as is how remote sensing products are the perfect complement to GIS based analysis in industries such as emergency response meteorology water resources land use and urban planning

**Digital Image Processing for Remote Sensing** Ralph Bernstein,1978

**Remote Sensing and Image Interpretation** Thomas Lillesand,Ralph W. Kiefer,Jonathan Chipman,2003-10-10 From recent developments in digital image processing to the next generation of satellite systems this book provides a comprehensive introduction to the field of remote sensing and image interpretation This book is discipline neutral so readers in any field of study can gain a clear understanding of these systems and their virtually unlimited applications The authors underscore close interactions among the related areas of remote sensing GIS GPS digital image processing and environmental modeling Appendices include material on sources of remote sensing data and information remote sensing periodicals online glossaries and online tutorials

**Remote Sensing Applications In The Digital Age** Saad Abdo,2025-06-27 This comprehensive guide explores the fundamental principles and advanced applications of remote sensing technology in the modern digital age Beginning with core concepts of electromagnetic radiation and sensor systems the book delves into the intricate relationship between satellite platforms and data acquisition methods Readers will gain a thorough understanding of how various remote sensing instruments interact with Earth s surface features and atmospheric conditions providing crucial insights into data collection and interpretation processes The text progresses through essential topics in digital image processing spectral analysis and advanced sensing

technologies such as LiDAR and radar systems Special attention is given to the integration of remote sensing with Geographic Information Systems GIS and the application of machine learning algorithms for enhanced data analysis The book explores various practical applications from urban planning and agricultural monitoring to forest management and ocean observation demonstrating the versatility of remote sensing technology across different sectors A significant portion of the book is dedicated to specialized applications in environmental monitoring and natural disaster management Through detailed explanations of time series analysis pattern recognition and data validation techniques readers learn how to extract meaningful information from satellite imagery and apply it to real world challenges The text also covers quality assurance protocols and best practices for ensuring accurate and reliable results in remote sensing projects The final sections of the book address the practical aspects of implementing remote sensing projects including software tools data integration techniques and project planning methodologies Looking toward the future the book examines emerging trends in Earth observation technology and their potential impact on various industries This forward looking perspective combined with comprehensive technical content makes the book an invaluable resource for both newcomers and experienced professionals in the field of remote sensing and digital Earth observation

[Remote Sensing And Image Interpretation, 5Th Ed](#) Lillesand,2007-09-18 From recent developments in digital image processing to the next generation of satellite systems this book provides a comprehensive introduction to the field of remote sensing and image interpretation This book is discipline neutral so readers in any field of study can gain a clear understanding of these systems and their virtually unlimited applications The authors underscore close interactions among the related areas of remote sensing GIS GPS digital image processing and environmental modeling Appendices include material on sources of remote sensing data and information remote sensing periodicals online glossaries and online tutorials Table of Contents Concepts and Foundations of Remote Sensing Elements of Photographic Systems Basic Principles of Photogrammetry Introduction to Visual Image Interpretation Multispectral Thermal and Hyperspectral Sensing Earth Resource Satellites Operating in the Optical Spectrum Digital Image Processing Microwave and Lidar Sensing

[Remote Sensing of the Environment](#) John R. Jensen,2000 This book introduces the principles of remote sensing from an Earth resource perspective It describes a the fundamental characteristics of electromagnetic radiation and how the energy interacts with Earth materials such as vegetation water soil and rock b how the energy reflected or emitted from these materials is recorded using a variety of remote sensing instruments e g cameras multispectral scanners hyperspectral instruments RADAR and c how we can extract fundamental biophysical or land use land cover information from the remote sensor data The history of remote sensing the principles of visual photo interpretation and photogrammetry are also presented Application chapters focus on remote sensing of vegetation water urban land use and soil rock and geomorphic features The book was written for physical natural and social scientists interested in how remote sensing of the environment can be used to solve real world problems The following features make this book easy to

comprehend and apply a it contains hundreds of illustrations specially designed to make complex principles easy to understand b a substantial reference list at the end of each chapter c the 8.5 x 11 format allows the remote sensing images and diagrams to be easily interpreted d 32 pages of color are used to display remote sensing images or biophysical information that may be extracted from remote sensor data and e an Appendix provides Internet addresses for the most important sources of remote sensing information Exercises and book illustrations are made available to instructors via the author's website This book is a companion to *Introductory Digital Image Processing A Remote Sensing Perspective* Prentice Hall Inc 1996 which introduces the fundamentals of digital image analysis It is ideal for undergraduate or graduate courses in airphoto interpretation and remote sensing

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