

John A. Richards · Xiuping Jia

Remote Sensing Digital Image Analysis

An Introduction
Fourth Edition



Springer

Remote Sensing Digital Image Analysis An Introduction

Sven Nussbaum, Gunter Menz



Remote Sensing Digital Image Analysis An Introduction:

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. Remote Sensing Digital Image Analysis John A.

Richards, 2012-09-09 *Remote Sensing Digital Image Analysis* provides the non specialist with a treatment of the quantitative analysis of satellite and aircraft derived remotely sensed data. Since the first edition of the book there have been significant developments in the algorithms used for the processing and analysis of remote sensing imagery; nevertheless many of the fundamentals have substantially remained the same. This new edition presents material that has retained value since those early days along with new techniques that can be incorporated into an operational framework for the analysis of remote sensing data. 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 processing 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. Each chapter covers a different aspect of the analysis of digital remotely sensed data without an excessively detailed mathematical treatment of computer based algorithms but in a manner conducive to an understanding of their capabilities and limitations. Problems conclude each chapter. Remote Sensing Digital Image Analysis John A. Richards, 2013-04-17

With the widespread availability of satellite and aircraft remote sensing image data in digital form and the ready access most remote sensing practitioners have to computing systems for image interpretation there is a need to draw together the range of digital image processing procedures and methodologies commonly used in this field into a single treatment. It is the intention of this book to provide such a function at a level meaningful to the non specialist digital image analyst but in sufficient detail that algorithm limitations, alternative procedures and current trends can be appreciated. Often the applications specialist in

remote sensing wishing to make use of digital processing procedures has had to depend upon either the mathematically detailed treatments of image processing found in the electrical engineering and computer science literature or the sometimes necessarily superficial treatments given in general texts on remote sensing This book seeks to redress that situation Both image enhancement and classification techniques are covered making the material relevant in those applications in which photointerpretation is used for information extraction and in those wherein information is obtained by classification

Remote Sensing Digital Image Analysis: An Introduction Xiuping Jia John A. Richards,2008

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,1986

Introductory Digital Image Processing John R. Jensen,1986

Remote Sensing Digital Image Analysis: An Introduction, 2E Richards John A. Et.Al,2007-12-01

Spatial Statistics and Digital Image Analysis National Research Council,Division on Engineering and Physical Sciences,Commission on Physical Sciences, Mathematics, and Applications,Board on Mathematical Sciences,Panel on Spatial Statistics and Image Processing,1991-02-01 Spatial statistics is one of the most rapidly growing areas of statistics rife with fascinating research opportunities Yet many statisticians are unaware of those opportunities and most students in the United States are never exposed to any course work in spatial statistics Written to be accessible to the nonspecialist this volume surveys the applications of spatial statistics to a wide range of areas including image analysis geosciences physical chemistry and ecology The book describes the contributions of the mathematical sciences summarizes the current state of knowledge and identifies directions for research

Digital Image Processing and Analysis CHANDA, BHABATOSH,MAJUMDER, DWIJESH DUTTA,2011-10-30 The second edition of this extensively revised and updated text is a result of the positive feedback and constructive suggestions received from academics and students alike It discusses the fundamentals as well as the advances in digital image processing and analysis

both theory and practice to fulfil the needs of students pursuing courses in Computer Science and Engineering CSE and Electronics and Communication Engineering ECE both at undergraduate and postgraduate levels It is also considered useful for teachers professional engineers and researchers The second edition has three objectives First each and every chapter has been modified in the light of recent advances as well as emerging concepts Second a good deal of colour image processing has been incorporated A large number of line drawings and images have been included to make the book student friendly Third some new problems have been added in almost all chapters to test the student s understanding of the real life problems The other distinguishing features of the book are A summary at the end of the chapter to help the student capture the key points About 320 line drawings and 280 photographs for easy assimilation of the concepts Chapter end problems for extensive practice and research

Image Analysis, Classification and Change Detection in Remote Sensing Morton John Canty, 2019-03-11 Image Analysis Classification and Change Detection in Remote Sensing With Algorithms for Python Fourth Edition is focused on the development and implementation of statistically motivated data driven techniques for digital image analysis of remotely sensed imagery and it features a tight interweaving of statistical and machine learning theory of algorithms with computer codes It develops statistical methods for the analysis of optical infrared and synthetic aperture radar SAR imagery including wavelet transformations kernel methods for nonlinear classification as well as an introduction to deep learning in the context of feed forward neural networks New in the Fourth Edition An in depth treatment of a recent sequential change detection algorithm for polarimetric SAR image time series The accompanying software consists of Python open source versions of all of the main image analysis algorithms Presents easy platform independent software installation methods Docker containerization Utilizes freely accessible imagery via the Google Earth Engine and provides many examples of cloud programming Google Earth Engine API Examines deep learning examples including TensorFlow and a sound introduction to neural networks Based on the success and the reputation of the previous editions and compared to other textbooks in the market Professor Canty s fourth edition differs in the depth and sophistication of the material treated as well as in its consistent use of computer codes to illustrate the methods and algorithms discussed It is self contained and illustrated with many programming examples all of which can be conveniently run in a web browser Each chapter concludes with exercises complementing or extending the material in the text

Remote Sensing Imagery for Natural Resources Monitoring David S. Wilkie, John T. Finn, 1996 The Cambrian radiation was the explosive evolution of marine life that started 550 000 000 years ago It ranks as one of the most important episodes in Earth history This key event in the history of life on our planet changed the marine biosphere and its sedimentary environment forever requiring a complex interplay of wide ranging biologic and nonbiologic processes The Ecology of the Cambrian Radiation offers a comprehensive and surprising picture of the Earth at that ancient time The book contains contributions from thirty three authors hailing from ten countries and will be of interest to paleontologists geologists biologists and other researchers interested in the global Earth life system

Introduction to Remote Sensing James B. Campbell, Randolph H. Wynne, Valerie A. Thomas, 2022-06-07 Now in full color the sixth edition of this leading text features new chapters on remote sensing platforms including the latest satellite and unmanned aerial systems agriculture including agricultural analysis via satellite imagery and forestry including fuel type mapping and fire monitoring The book has introduced tens of thousands of students to the fundamentals of collecting analyzing and interpreting remotely sensed images It presents cutting edge tools and practical applications to land and water use analysis natural resource management climate change adaptation and more Each concise chapter is designed as an independent unit that instructors can use in any sequence Pedagogical features include over 400 figures chapter opening lists of topics case studies end of chapter review questions and links to recommended online videos and tutorials New to This Edition Discussions of Landsat 8 and Sentinel 2 the growth of unmanned aerial systems mobile data collection current directions in climate change detection fire monitoring and disaster response and other timely topics Additional cases such as river erosion the impact of Hurricane Sandy on Mantoloking New Jersey and Miami Beach as an exemplar of challenges in coastal communities Revised throughout with 60% new material including hundreds of new full color figures New chapters on remote sensing platforms agriculture and forestry

Image Processing and GIS for Remote Sensing Jian Guo Liu, Philippa J. Mason, 2016-01-04 Following the successful publication of the 1st edition in 2009 the 2nd edition maintains its aim to provide an application driven package of essential techniques in image processing and GIS together with case studies for demonstration and guidance in remote sensing applications The book therefore has a 3 in 1 structure which pinpoints the intersection between these three individual disciplines and successfully draws them together in a balanced and comprehensive manner The book conveys in depth knowledge of image processing and GIS techniques in an accessible and comprehensive manner with clear explanations and conceptual illustrations used throughout to enhance student learning The understanding of key concepts is always emphasised with minimal assumption of prior mathematical experience The book is heavily based on the authors own research Many of the author designed image processing techniques are popular around the world For instance the SFIM technique has long been adopted by ASTRIUM for mass production of their standard Pan sharpen imagery data The new edition also includes a completely new chapter on subpixel technology and new case studies based on their recent research

Image Analysis and Recognition Aurélio Campilho, Mohamed Kamel, 2004-09-14 ICIAR 2004 the International Conference on Image Analysis and Recognition was the rst ICIAR conference and was held in Porto Portugal ICIAR will be organized annually and will alternate between Europe and North America ICIAR 2005 will take place in Toronto Ontario Canada The idea of o ering these conferences came as a result of discussion between researchers in Portugal and Canada to encourage collaboration and exchange mainly between these two countries but also with the open participation of other countries addressing recent advances in theory methodology and applications The response to the call for papers for ICIAR 2004 was very positive From 316 full papers submitted 210 were accepted 97 oral presentations and

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 The review process was carried out by the Program Committee members and other reviewers all are experts in various image analysis and recognition areas Each paper was reviewed by at least two reviewing parties The high quality of the papers in these proceedings is attributed first to the authors and second to the quality of the reviews provided by the experts We would like to thank the authors for responding to our call and we wholeheartedly thank the reviewers for their excellent work in such a short amount of time We are especially indebted to the Program Committee for their efforts that allowed us to set up this publication We were very pleased to be able to include in the conference Prof Murat Kunt from the Swiss Federal Institute of Technology and Prof Mario Figueiredo of the Instituto Superior Técnico in Portugal

Remote Sensing Image Analysis: Including the Spatial Domain Steven M. de Jong, Freek D. van der Meer, 2007-07-26 Remote Sensing image analysis is mostly done using only spectral information on a pixel by pixel basis Information captured in neighbouring cells or information about patterns surrounding the pixel of interest often provides useful supplementary information This book presents a wide range of innovative and advanced image processing methods for including spatial information captured by neighbouring pixels in remotely sensed images to improve image interpretation or image classification Presented methods include different types of variogram analysis various methods for texture quantification smart kernel operators pattern recognition techniques image segmentation methods sub pixel methods wavelets and advanced spectral mixture analysis techniques Apart from explaining the working methods in detail a wide range of applications is presented covering land cover and land use mapping environmental applications such as heavy metal pollution urban mapping and geological applications to detect hydrocarbon seeps The book is meant for professionals PhD students and graduates who use remote sensing image analysis image interpretation and image classification in their work related to disciplines such as geography geology botany ecology forestry cartography soil science engineering and urban and regional planning

Digital Analysis of Remotely Sensed Imagery Jay Gao, 2009-05-01 An important text that identifies and introduces new trends in image analysis Digital Analysis of Remotely Sensed Imagery provides thorough coverage of the entire process of analyzing remotely sensed data for the purpose of producing accurate representations in thematic map format Written in easy to follow language with minimal technical jargon the book explores cutting edge techniques and trends in image analysis as well as the relationship between image processing and other recently emerged special technologies

Object-Based Image Analysis Thomas Blaschke, Stefan Lang, Geoffrey Hay, 2008-08-09 This book brings together a collection of invited interdisciplinary perspectives on the recent topic of Object based Image Analysis OBIA Its content is based on select papers from the 1 OBIA International Conference held in Salzburg in July 2006 and is enriched by several invited chapters All submissions have passed through a blind peer review process resulting in what we believe is a timely volume of the highest scientific theoretical and technical standards The concept of OBIA first gained widespread interest within the GIScience Geographic Information Science community circa 2000 with the advent of the first commercial

software for what was then termed object oriented image analysis. However, it is widely agreed that OBIA builds on older segmentation, edge detection, and classification concepts that have been used in remote sensing image analysis for several decades. Nevertheless, its emergence has provided a new critical bridge to spatial concepts applied in multiscale landscape analysis. Geographic Information Systems (GIS) and the synergy between image objects and their radiometric characteristics and analyses in Earth Observation data (EO).

Remote Sensing of Soils Ravi Shankar Dwivedi, 2017-08-19. This book is about applications of remote sensing techniques in the studies on soils. In pursuance of the objective, the book initially provides an introduction to various elements and concepts of remote sensing and associated technologies, namely Geographic Information System (GIS), Global Positioning System (GPS). In chapter 1, an overview of the sensors used to collect remote sensing data and important Earth observation missions is provided. In chapter 2, the processing of satellite digital data, geometric and radiometric corrections, feature reduction, digital data fusion, image enhancements, and analysis is dealt with. In Chapter 3, in the chapter to follow, the interpretation of remote sensing data, a very important and crucial step in deriving information on natural resources including soils, is discussed. An introduction to soils as a natural body with respect to their formation, physical and chemical properties, and use during inventory of soils and soil classification is given in Chapter 5. The spectral response patterns of soils, including hyperspectral characteristics fundamental to deriving information on soils from spectral measurements and the techniques of soil resources mapping, are discussed in chapters 6 and 7 respectively. Furthermore, the creation of a digital soil resources database and the development of soil information systems, a very important aspect of storage and dissemination of digital soil data to the end users, are discussed in chapter 8. Lastly, the applications of remote sensing techniques in soil moisture estimation and soil fertility evaluation are covered in chapters 9 and 10 respectively.

Object-Based Image Analysis and Treaty Verification Sven Nussbaum, Gunter Menz, 2008-01-09. With the launch of very high resolution satellite sensors at the beginning of this decade (e.g. IKONOS, OrbView, QUICKBIRD), many important new remote sensing applications have been developed. Major progress has been demonstrated in the accurate detection, identification, and analysis of small scale site specific features, including critical commercial and industrial facilities such as nuclear power plants. According to IAEA Director General and 2005 Nobel Peace Prize winner Dr. Mohamed ElBaradei, the provision of the necessary information and guarantees for monitoring the Iranian nuclear programme is an urgent priority for the future. Today, satellite imagery analysis is an integral part of the International Atomic Energy Agency's (IAEA) safeguards and verification efforts, and high resolution commercial satellite imagery is an important component of this process. Several international studies have proven the usefulness and documented the applicability of remotely sensed data for site verification purposes. Recent important developments in satellite sensor capabilities and innovations in analytic techniques make it clear that this hardware/software complex is changing and improving rapidly. This book documents the latest developments in satellite data analysis and comprehensively describes the process of extracting information from

space borne sensor data for site verification purposes

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