

John A. Richards · Xiuping Jia

Remote Sensing Digital Image Analysis

An Introduction
Fourth Edition



Springer

Remote Sensing Digital Image Analysis An Introduction

John A. Richards



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: An Introduction, 2E Richards John A. Et.Al,2007-12-01 Introductory Digital Image Processing John R. Jensen,1986 **Remote Sensing Digital Image Analysis** John A. Richards,2012-09-13 Remote Sensing Digital Image Analysis provides the non specialist with an introduction to quantitative evaluation of satellite and aircraft derived remotely retrieved 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 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 **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 *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 **Geospatial Technologies for Land Degradation Assessment and Management** R. S. Dwivedi,2018-10-17 The constant growth of the world s population and the decline of the availability of land and soil resources are global concerns for food security Other concerns are the decrease in productivity and delivery of essential ecosystems services because of the decline of soil quality and health by a range of degradation processes Key soil properties like soil bulk density organic carbon concentration plant available water capacity infiltration rate air porosity at field moisture capacity and nutrient reserves are crucial properties for soil functionality which refers to the capacity of soil to perform numerous functions These functions are difficult to measure directly and are estimated through indices of soil quality and soil health Soil degradation its extent and severity can also be estimated by assessing indices of soil quality and health Geospatial Technology for Land Degradation Assessment and Management uses satellite imagery and remote sensing technologies to measure landscape parameters and terrain attributes Remote sensing and geospatial technologies are important tools in assessing the extent and the severity of land and soil degradation their temporal changes and geospatial distribution in a timely and cost effective manner The knowledge presented in the book by Dr R S Dwivedi shows how remote sensing data can be utilized for inventorying assessing and monitoring affected ecosystems and how this information can be integrated in the models of different local settings Through many land degradations studies land managers researchers and policymakers will find practical applications of geospatial technologies and future challenges The information presented is also relevant to advancing the Sustainable Development Goals of the United Nations towards global food security *Combinatorial Image Analysis* Reinhard Klette,Jovisa Zunic,2004-11-22 This volume presents the proceedings of the 10th International Workshop on Combinatorial Image Analysis held December 1 3 2004 in Auckland New Zealand Prior meetings

took place in Paris France 1991 Ube Japan 1992 Washington DC USA 1994 Lyon France 1995 Hiroshima Japan 1997 Madras India 1999 Caen France 2000 Philadelphia USA 2001 and Ierlano Italy 2003 For this workshop we received 86 submitted papers from 23 countries Each paper was evaluated by at least two independent referees We selected 55 papers for the conference Three invited lectures by Vladimir Kovalevsky Berlin Akira Nakamura Hiroshima and Maurice Nivat Paris completed the program Conference papers are presented in this volume under the following topical part titles discrete tomography 3 papers combinatorics and computational models 6 combinatorial algorithms 6 combinatorial mathematics 4 digital topology 7 digital geometry 7 approximation of digital sets by curves and surfaces 5 algebraic approaches 5 fuzzy image analysis 2 image segmentation 6 and matching and recognition 7 These subjects are dealt with in the context of digital image analysis or computer vision

Entropy in Image Analysis Amelia Carolina Sparavigna, 2019-06-24 Image analysis is a fundamental task for extracting information from images acquired across a range of different devices Since reliable quantitative results are requested image analysis requires highly sophisticated numerical and analytical methods particularly for applications in medicine security and remote sensing where the results of the processing may consist of vitally important data The contributions to this book provide a good overview of the most important demands and solutions concerning this research area In particular the reader will find image analysis applied for feature extraction encryption and decryption of data color segmentation and in the support new technologies In all the contributions entropy plays a pivotal role

Image Databases Vittorio Castelli, Lawrence D. Bergman, 2004-03-24 The explosive growth of multimedia data transmission has generated a critical need for efficient high capacity image databases as well as powerful search engines to retrieve image data from them This book brings together contributions by an international all star team of innovators in the field who share their insights into all key aspects of image database and search engine construction Readers get in depth discussions of the entire range of crucial image database architecture indexing and retrieval transmission display and user interface issues And using examples from an array of disciplines the authors present cutting edge applications in medical imagery multimedia communications earth science remote sensing and other major application areas

The SAGE Handbook of Remote Sensing Timothy A Warner, M Duane Nellis, Giles M Foody, 2009-06-18 A magnificent achievement A who's who of contemporary remote sensing have produced an engaging wide ranging and scholarly review of the field in just one volume Professor Paul Curran Vice Chancellor Bournemouth University Remote Sensing acquires and interprets small or large scale data about the Earth from a distance Using a wide range of spatial spectral temporal and radiometric scales Remote Sensing is a large and diverse field for which this Handbook will be the key research reference Organized in four key sections Interactions of Electromagnetic Radiation with the Terrestrial Environment chapters on Visible Near IR and Shortwave IR Middle IR 3-5 micrometers Thermal IR Microwave Digital sensors and Image Characteristics chapters on Sensor Technology Coarse Spatial Resolution Optical Sensors Medium Spatial Resolution Optical Sensors Fine Spatial Resolution Optical

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A Selective Bibliography on Imagery Reconnaissance and Related Matters Robert A. McDonald, 1993

Guidelines for the Use of Digital Imagery for Vegetation Mapping Henry Lachowski, 1996-09 A basic reference for those considering digital imagery particularly satellite imagery for vegetation mapping Contents using remote sensing and GIS for mapping vegetation remote sensors and remotely sensed data determining appropriate uses for satellite imagery defining the classification scheme collecting reference data assessing accuracy creating polygons project management the basic tour and case studies Important terms and ideas are introduced while showing the progression of key activities in the classification and mapping process

Guidelines for the Use of Digital Imagery for Vegetation Mapping , 1996

Encyclopedia of Mathematical Geosciences B. S. Daya Sagar, Qiuming Cheng, Jennifer McKinley, Frits Agterberg, 2023-07-13 The Encyclopedia of Mathematical Geosciences is a complete and authoritative reference work It provides concise explanation on each term that is related to Mathematical Geosciences Over 300 international scientists each expert in their specialties have written around 350 separate articles on different topics of mathematical geosciences including contributions on Artificial Intelligence Big Data Compositional Data Analysis Geomathematics Geostatistics Geographical Information Science Mathematical Morphology Mathematical Petrology Multifractals Multiple Point Statistics Spatial Data Science Spatial Statistics and Stochastic Process Modeling Each topic incorporates cross referencing to related articles and also has its own reference list to lead the reader to essential articles within the published literature The entries are arranged alphabetically for easy access and the subject and author indices are comprehensive and extensive

Recent Advances in Signals and Systems Omid Ansary, Meng Lin, B. R. Shivakumar, 2024-11-19 This book comprises select peer reviewed papers from the International Conference on VLSI Signal Processing Power Electronics IoT Communication and Embedded Systems VSPICE 2023 The book provides insights into various aspects of electronics and communication engineering as a holistic approach The various topics covered in this book include VLSI embedded systems signal processing communication power electronics and the Internet of Things The contents mainly focus on the most recent innovations trends concerns and practical challenges and their solutions This book is useful for academicians professionals and researchers in

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