

SECOND EDITION

# ADVANCED REMOTE SENSING

Terrestrial Information  
Extraction and Applications

Edited by  
**SHUNLIN LIANG**  
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# Remote Sensing Digital Image Analysis 2nd Edition

**Gary L. Prost**



## **Remote Sensing Digital Image Analysis 2nd Edition:**

*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 Alan Richards, 1993 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 Book jacket

*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 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 for Geoscientists Gary L. Prost, 2025-06-16 The fourth edition of the bestselling Remote Sensing for Geoscientists Image Analysis and Integration expands the scope of remote sensing to cover image systems that did not exist 11 years ago when the third edition was published It is thoroughly updated to meet the needs of readers today and provides examples of new capabilities using Google Earth and various apps It describes the latest remote sensing systems and sensors provides examples of imagery and explains how to analyze and integrate remote sensing images in projects that require superior results Lavishly illustrated it serves as a how to guide for those using remote sensing in Earth Sciences for mapping and monitoring New in the Fourth Edition Thoroughly revised to address remote sensing technological advances achieved in recent years Includes new examples of using remote sensing for successful projects in water oil gas and mineral exploration and exploitation forensic remote sensing and environmental monitoring Reviews the latest instrumentation processing and integrated analysis of imagery Includes two new chapters including one on clandestine geologic remote sensing and a new chapter on free Google Earth software to remotely sense anywhere on Earth and process imagery to highlight geologic features Maintains a clear style and simple language understandable by the average person This is a terrific all encompassing text for professionals in industry and governmental agencies academics and students who are part of the remote sensing and geospatial community and working in the fields of geology geosciences energy and mining industry groundwater and environmental engineering and for those who are involved in monitoring natural resources the environment and natural disasters **Remote Sensing Handbook, Volume II** Prasad

S. Thenkabail,2024-11-29 Volume II of the Six Volume Remote Sensing Handbook Second Edition is focused on digital image processing including image classification methods in land cover and land use It discusses object based segmentation and pixel based image processing algorithms change detection techniques and image classification for a wide array of applications including land use land cover croplands urban studies processing hyperspectral remote sensing data thermal imagery light detection and ranging LiDAR geoprocessing workflows frontiers of GIScience and future pathways This thoroughly revised and updated volume draws on the expertise of a diverse array of leading international authorities in remote sensing and provides an essential resource for researchers at all levels interested in using remote sensing It integrates discussions of remote sensing principles data methods development applications and scientific and social context Features Provides the most up to date comprehensive coverage of digital image processing Highlights object based image analysis OBIA and pixel based classification methods and techniques of digital image processing Demonstrates practical examples of image processing for a myriad of applications such as land use land cover croplands and urban Establishes image processing using different types of remote sensing data that includes multispectral radar LiDAR thermal and hyperspectral Highlights change detection geoprocessing and GIScience This volume is an excellent resource for the entire remote sensing and GIS community Academics researchers undergraduate and graduate students as well as practitioners decision makers and policymakers will benefit from the expertise of the professionals featured in this book and their extensive knowledge of new and emerging trends      Advanced Image Processing Techniques for Remotely Sensed Hyperspectral Data Pramod K. Varshney,Manoj K. Arora,2013-03-09 The first of its kind this book reviews image processing tools and techniques including Independent Component Analysis Mutual Information Markov Random Field Models and Support Vector Machines The book also explores a number of experimental examples based on a variety of remote sensors The book will be useful to people involved in hyperspectral imaging research as well as by remote sensing data like geologists hydrologists environmental scientists civil engineers and computer scientists      Optical Payloads for Space Missions Shen-En Qian,2016-01-26 Optical Payloads for Space Missions is a comprehensive collection of optical spacecraft payloads with contributions by leading international rocket scientists and instrument builders Covers various applications including earth observation communications navigation weather and science satellites and deep space exploration Each chapter covers one or more specific optical payload Contains a review chapter which provides readers with an overview on the background current status trends and future prospects of the optical payloads Provides information on the principles of the optical spacecraft payloads missions background motivation and challenges as well as the scientific returns benefits and applications      **Digital Image Processing and Analysis** Scott E Umbaugh,2023-01-18 Computer Vision and Image Analysis focuses on techniques and methods for image analysis and their use in the development of computer vision applications The field is advancing at an ever increasing pace with applications ranging from medical diagnostics to space

exploration The diversity of applications is one of the driving forces that make it such an exciting field to be involved in for the 21st century This book presents a unique engineering approach to the practice of computer vision and image analysis which starts by presenting a global model to help gain an understanding of the overall process followed by a breakdown and explanation of each individual topic Topics are presented as they become necessary for understanding the practical imaging model under study which provides the reader with the motivation to learn about and use the tools and methods being explored The book includes chapters on image systems and software image analysis edge line and shape detection image segmentation feature extraction and pattern classification Numerous examples including over 500 color images are used to illustrate the concepts discussed Readers can explore their own application development with any programming languages including C C MATLAB Python and R and software is provided for both the Windows C C and MATLAB environments The book can be used by the academic community in teaching and research with over 700 PowerPoint Slides and a complete Solutions Manual to the over 150 included problems It can also be used for self study by those involved with developing computer vision applications whether they are engineers scientists or artists The new edition has been extensively updated and includes numerous problems and programming exercises that will help the reader and student to develop their skills

**Multi-Sensor and Multi-Temporal Remote Sensing** Anil Kumar, Priyadarshi Upadhyay, Uttara Singh, 2023-04-17 This book elaborates fuzzy machine and deep learning models for single class mapping from multi sensor multi temporal remote sensing images while handling mixed pixels and noise It also covers the ways of pre processing and spectral dimensionality reduction of temporal data Further it discusses the individual sample as mean training approach to handle heterogeneity within a class The appendix section of the book includes case studies such as mapping crop type forest species and stubble burnt paddy fields Key features Focuses on use of multi sensor multi temporal data while handling spectral overlap between classes Discusses range of fuzzy deep learning models capable to extract specific single class and separates noise Describes pre processing while using spectral textural CBSI indices and back scatter coefficient Radar Vegetation Index RVI Discusses the role of training data to handle the heterogeneity within a class Supports multi sensor and multi temporal data processing through in house SMIC software Includes case studies and practical applications for single class mapping This book is intended for graduate postgraduate students research scholars and professionals working in environmental geography computer sciences remote sensing geoinformatics forestry agriculture post disaster urban transition studies and other related areas

**Handbook of Water Sensitive Planning and Design** Robert L. France, 2002-05-29 Design options and planning procedures must be critically examined to ensure that landscapes are created with sensitivity to water quality and management issues as well as overall ecological integrity Handbook of Water Sensitive Planning and Design presents the history of water as a design and planning element in landscape architecture and describes new interpretations of water management This text pushes the frontiers of standard water management in new directions challenging readers into

abandoning the comfortable safety of conducting business as usual within narrow disciplinary confines and instead directing views outward to the exciting and incompletely mapped regions of true interdisciplinary water sensitive planning and design With contributions from renowned practitioners Part I provides seventeen chapters addressing the subject of site specific water sensitive design and Part II presents another seventeen chapters focusing on issues relating to the water sensitive planning of riparian buffers and watersheds In addition Professor France has provided a Response to accompany each chapter which succinctly underscores the salient features in more detail and emphasizes cross linking to other chapters in the book The Overview provides a brief road map to navigate through the section Finally the discussion summaries at the end of each section elaborate on past problems current challenges and future directions Handbook of Water Sensitive Planning and Design puts forward the very best of modern water sensitive planning and design and should be required reading for everyone involved in this dynamic and crucial field

**The Application of Airborne Lidar Data in the Modelling of 3D Urban Landscape Ecology** Ziyue Chen,2016-12-14 Compared with traditional remote sensing technologies airborne Lidar data can provide researchers with additional 3D positional information which is a key factor for advanced urban research and particularly that of urban landscape ecology Therefore the need for applying Lidar data to a variety of disciplines is rapidly growing However the lack of remote sensing background makes the wider use of Lidar data highly difficult for scholars from other disciplines In contrast to the majority of Lidar related books that focus on sophisticated principles and general applications of Lidar data this book provides the reader with a feasible framework for applying airborne Lidar data to urban research In addition to providing a general introduction to the subject this book explains in detail a series of case studies to demonstrate how these theoretical models can be employed to address practical urban issues As such this book not only provides Lidar scholars with a series of specifically designed research methods but will also serve to inspire scholars from other disciplines such as geographers urban planners ecologists and decision makers with a complete framework of potential application fields

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

**Recent Advances in Artificial Neural Networks** L. C. Jain,2018-05-04 Neural networks represent a new generation of information processing paradigms designed to mimic in a very limited sense the human brain They can learn recall and generalize from training data and with their potential applications limited only by the imaginations of scientists and engineers they are commanding tremendous

popularity and research interest Over the last four decades researchers have reported a number of neural network paradigms however the newest of these have not appeared in book form until now Recent Advances in Artificial Neural Networks collects the latest neural network paradigms and reports on their promising new applications World renowned experts discuss the use of neural networks in pattern recognition color induction classification cluster detection and more Application engineers scientists and research students from all disciplines with an interest in considering neural networks for solving real world problems will find this collection useful

*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

*Optical Remote Sensing of Ocean Hydrodynamics* Victor Raizer, 2019-03-04 Optical Remote Sensing is one of the main technologies used in sea surface monitoring Optical Remote Sensing of Ocean Hydrodynamics investigates and demonstrates capabilities of optical remote sensing technology for enhanced observations and detection of ocean environments It provides extensive knowledge of physical principles and capabilities of optical observations of the oceans at high spatial resolution 1 4m and on the observations of surface wave hydrodynamic processes It also describes the implementation of spectral statistical and fusion algorithms for analyses of multispectral optical databases and establishes physics based criteria for detection of complex wave phenomena and hydrodynamic disturbances including assessment and management of optical databases This book explains the physical principles of high resolution optical imagery of the ocean surface discusses for the first time the capabilities of observing hydrodynamic processes and events and emphasizes the integration of optical measurements and enhanced data analysis It also covers both the assessment and the interpretation of dynamic multispectral optical databases and includes applications for advanced studies and nonacoustic detection This book is an invaluable resource for researches industry professionals engineers and students working on cross disciplinary problems in ocean hydrodynamics optical remote sensing of the ocean and sea surface remote sensing Readers in the fields of geosciences and remote sensing applied physics oceanography satellite observation technology and optical



engineering will learn the theory and practice of optical interactions with the ocean

**Encyclopedia of Geography** Barney Warf, 2010-09-21 Simply stated geography studies the locations of things and the explanations that underlie spatial distributions. Profound forces at work throughout the world have made geographical knowledge increasingly important for understanding numerous human dilemmas and our capacities to address them. With more than 1 200 entries the Encyclopedia of Geography reflects how the growth of geography has propelled a demand for intermediaries between the abstract language of academia and the ordinary language of everyday life. The six volumes of this encyclopedia encapsulate a diverse array of topics to offer a comprehensive and useful summary of the state of the discipline in the early 21st century.

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**Key Themes** Physical Geography Human Geography Nature and Society Methods Models and GIS People Organizations and Movements History of Geography. This encyclopedia strategically reflects the enormous diversity of the discipline the multiple meanings of space itself and the diverse views of geographers. It brings together the diversity of geographical knowledge making it an invaluable resource for any academic library.

*Geospatial Applications for Natural Resources Management* Chander Kumar Singh, 2018-03-29 Shelving Guide This book will present new research regarding the interdisciplinary applications of spatial information sciences for identification assessment monitoring and modeling issues related to natural resources and environmental management. It will focus on the creation collection storage processing modeling interpretation display and dissemination of spatio temporal data which could greatly aid with environmental management issues including ecosystem change resource utilization land use management and environmental pollution. The positive environmental impacts of information technology advancements with regard to global environmental and climate change will also be discussed.

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**Basics of Geomatics** Mario A. Gomarasca, 2009-09-18 Geomatics is a neologism the use of which is becoming increasingly widespread even if it is not still universally accepted. It includes several disciplines and techniques for the study of the Earth's surface and

its environments and computer science plays a decisive role A more meaningful and appropriate expression is Geo spatial Information or GeoInformation Geo spatial Information embeds topography in its more modern forms measurements with electronic instrumentation sophisticated techniques of data analysis and network compensation global satellite positioning techniques laser scanning etc analytical and digital photogrammetry satellite and airborne remote sensing numerical cartography geographical information systems decision support systems WebGIS etc These specialized fields are intimately interrelated in terms of both the basic science and the results pursued rigid separation does not allow us to discover several common aspects and the fundamental importance assumed in a search for solutions in the complex survey context The objective pursued by Mario A Gomasca one that is only apparently modest is to publish an integrated text on the surveying theme containing simple and comprehensible concepts relevant to experts in Geo spatial Information and or specially in one of the disciplines that compose it At the same time the book is rigorous and synthetic describing with precision the main instruments and methods connected to the multiple techniques available today

**Mediterranean Desertification** N. A. Geeson, C. J. Brandt, J. B. Thornes, 2003-04-11 Desertification includes land degradation due to both climatic and anthropogenic causes where land includes water soil and the biosphere This book presents the most recent findings from the European Community's MEDALUS project which was formed to understand and manage semi arid environments that are undergoing great change Covers climate and land use processes and responses in the Mediterranean First book to provide guidelines for the management of land degradation in Mediterranean environments Based on first hand experience of the problems by those responsible for solving them

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