

# CHAPTER- 1 INTRODUCTION TO DIGITAL IMAGE PROCESSING

## WHAT IS IMAGE?

- Projection of 3D scene in to 2D Plane
- It is two dimensional function,  $f(x,y)$  X and Y are called Spatial Coordinate and f at any coordinate is called intensity or grey level of the image at that point.

- Depending Up the characteristics intensity and Coordinate image classified in to two

1. **Analog Image:-** value of x,y and f (coordinate and intensity) are continuous values

We can convert analog image to digital image using sampling and quantization.

2. **Digital Image:-** When x, y and the amplitude values of f are all finite and discrete quantities then the image is referred as digital image. A digital image is composed of a finite number of

# Chapter 1 digital Image Processing Jensen

**Siamak Khorram**



## **Chapter 1 digital Image Processing Jensen:**

**Introductory Digital Image Processing** John R. Jensen, 1996 For junior graduate level courses in Remote Sensing in Geography Geology Forestry and Biology This text focuses exclusively on the art and science of digital image processing of satellite and aircraft derived remotely sensed data for resource management Extensively illustrated it explains how to extract biophysical information from remote sensor data for almost all multidisciplinary land based environmental projects Part of the Prentice Hall Series Geographic Information Science [Math Physics Foundation of Advanced Remote Sensing Digital Image Processing](#) Lei Yan, Hongying Zhao, Yi Lin, Yanbiao Sun, 2023-07-31 This book focuses on the mathematical and physical foundations of remote sensing digital image processing and introduces key algorithms utilized in this area The book fully introduces the basic mathematical and physical process of digital imaging the basic theory and algorithm of pixel image processing and the higher order image processing algorithm and its application This book skillfully and closely integrates theory algorithms and applications making it simple for readers to understand and use Researchers and students working in the fields of remote sensing computer vision geographic information science electronic information etc can profit from this book For their work and research in digital image processing they can master the fundamentals of imaging and image processing techniques *Land Resources Monitoring, Modeling, and Mapping with Remote Sensing* Ph.D., Prasad S. Thenkabail, 2015-10-02 A volume in the three volume Remote Sensing Handbook series Land Resources Monitoring Modeling and Mapping with Remote Sensing documents the scientific and methodological advances that have taken place during the last 50 years The other two volumes in the series are Remotely Sensed Data Characterization Classification and Accuracies and Remote Sensing of Water Resources Disasters and Urban Studies In true handbook style the chapters in the volume have been carefully selected organized and designed to be self contained so that you can focus on a chapter and read it through without having to be overly dependent on other chapters This volume provides comprehensive theoretical and practical coverage of remote sensing of land resources that include vegetation and biomass agricultural croplands rangelands phenology and food security forests biodiversity ecology land use land cover carbon and soils Highlights include Global terrestrial carbon and carbon budgets Precision farming Agricultural systems studies and soil studies Global croplands agricultural croplands and rangelands Food security analysis Biodiversity Land use and land cover mapping Measuring photosynthesis from space Vegetation characterization and above ground biomass measurements and modeling Hyperspectral remote sensing Ecological studies Tropical forest characterization Habitat mapping and monitoring In a very practical way the book demonstrates the experience utility methods and models used in studying a wide array of land applications With more than 100 leading global contributors this book is the most comprehensive documentation of the scientific and methodological advances that have taken place in understanding remote sensing data methods and applications over last 50 years In a very practical way the book demonstrates the experience utility methods and models used

in studying a wide array of Land applications

**Hyperspectral Data Processing** Chein-I Chang, 2013-02-01 Hyperspectral Data Processing Algorithm Design and Analysis is a culmination of the research conducted in the Remote Sensing Signal and Image Processing Laboratory RSSIPL at the University of Maryland Baltimore County Specifically it treats hyperspectral image processing and hyperspectral signal processing as separate subjects in two different categories Most materials covered in this book can be used in conjunction with the author's first book Hyperspectral Imaging Techniques for Spectral Detection and Classification without much overlap Many results in this book are either new or have not been explored presented or published in the public domain These include various aspects of endmember extraction unsupervised linear spectral mixture analysis hyperspectral information compression hyperspectral signal coding and characterization as well as applications to conceal target detection multispectral imaging and magnetic resonance imaging Hyperspectral Data Processing contains eight major sections Part I provides fundamentals of hyperspectral data processing Part II offers various algorithm designs for endmember extraction Part III derives theory for supervised linear spectral mixture analysis Part IV designs unsupervised methods for hyperspectral image analysis Part V explores new concepts on hyperspectral information compression Parts VI VII develops techniques for hyperspectral signal coding and characterization Part VIII presents applications in multispectral imaging and magnetic resonance imaging Hyperspectral Data Processing compiles an algorithm compendium with MATLAB codes in an appendix to help readers implement many important algorithms developed in this book and write their own program codes without relying on software packages Hyperspectral Data Processing is a valuable reference for those who have been involved with hyperspectral imaging and its techniques as well those who are new to the subject

**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.

*Remote Sensing Handbook - Three Volume Set* Prasad Thenkabail, 2018-10-03. A volume in the three volume Remote Sensing Handbook series. Remote Sensing of Water Resources, Disasters and Urban Studies documents the scientific and methodological advances that have taken place during the last 50 years. The other two volumes in the series are Remotely Sensed Data Characterization, Classification and Accuracies, and Land Resources.

**Environmental Hydrology, Second Edition** Andy D. Ward, Stanley W. Trimble, 2003-12-18. The technological advances of recent years include the emergence of new remote sensing and geographic information systems that are invaluable for the study of wetlands, agricultural land, and land use change. Students, hydrologists, and environmental engineers are searching for a comprehensive hydrogeologic overview that supplements information on hydrologic processes with data on these new information technology tools. Environmental Hydrology, Second Edition builds upon the foundation of the bestselling first edition by providing a qualitative understanding of hydrologic processes while introducing new methods for quantifying hydrologic parameters and processes. Written by authors with extensive multidisciplinary experience, the text first discusses the components of the hydrologic cycle, then follows with chapters on precipitation, stream processes, human impacts, new information system applications, and numerous other methods and strategies. By updating this thorough text with the newest analytical tools and measurement methodologies in the field, the authors provide an ideal reference for students and professionals in environmental science, hydrology, soil science, geology, ecological engineering, and countless other environmental fields.

*Remote Sensing Classification of Land Use and Land Cover in Jinotega, Nicaragua* Esther Beatriz Zeledón, 2006.

**Earth Resources**, 1977. **The Leading Edge**, 1997. **The History of Geographic Information Systems** Timothy W. Foresman, 1998. These authors' contributions helped bring to national state and federal agencies the powerful new suite of geospatial tools for issues ranging from land use management to population enumeration.

BOOK JACKET **Accuracy Assessment of Remote Sensing-derived Change Detection** Siamak Khorram, 1999. **Earthquake Spectra**, 2004. **Introductory Computer Vision and Image Processing** Adrian Low, 1991. [Intelligent Robots and Computer Vision](#), 1990. *Remote Sensing of the Environment* John R. Jensen, 2000. This book introduces the principles of remote sensing from an Earth resource perspective. It describes 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     *Technology 2003* ,1994     Interactive and Animated Cartography Michael P. Peterson,1995 For any cartography course using computers This text provides an accessible detailed introduction to recent advances in computer aided map making technology the New Cartography in which maps narrate cartographic symbols move and displays reveal relevant information when the viewer clicks on them in selected places It explains timely new ideas offers experience tested insights about why maps work highlights ways of using the computer to communicate information with maps and shows how to design them     *Medical Imaging* ,2006  
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