

DIGITAL IMAGE PROCESSING LAB MANUAL

1. Simulation and Display of an Image, Negative of an Image(Binary & Gray Scale)
2. Implementation of Relationships between Pixels
3. Implementation of Transformations of an Image
4. Contrast stretching of a low contrast image, Histogram, and Histogram Equalization
5. Display of bit planes of an Image
6. Display of FFT(1-D & 2-D) of an image
7. Computation of Mean, Standard Deviation, Correlation coefficient of the given Image
8. Implementation of Image Smoothing Filters(Mean and Median filtering of an Image)
9. Implementation of image sharpening filters and Edge Detection using Gradient Filters
10. Image Compression by DCT,DPCM, HUFFMAN coding
11. Implementation of image restoring techniques
12. Implementation of Image Intensity slicing technique for image enhancement
13. Canny edge detection Algorithm

Prepared by Abhishek Appaji

1. **Simulation and Display of an Image, Negative of an Image(Binary & Gray Scale)**

Digital Image Processing Lab Manual

Roman Wölfel



Digital Image Processing Lab Manual:

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

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 [LAB PRIMER THROUGH MATLAB®](#) NAVAS, K. A., JAYADEVAN, R., 2014-02-19 This systematically designed laboratory manual elucidates a number of techniques which help the students carry out various experiments in the field of digital signal processing digital image processing digital signal processor and digital communication through MATLAB in a single volume A step wise discussion of the programming procedure using MATLAB has been carried out in this book The numerous programming examples for each digital signal processing lab image processing lab signal processor lab and digital communication lab have also been included The book begins with an introductory chapter on MATLAB which will be very useful for a beginner The concepts are explained with the aid of screenshots Then it moves on to discuss the fundamental aspects in digital signal processing through MATLAB with a special emphasis given to the design of digital filters FIR and IIR Finally digital communication and image processing sections in the book help readers to understand the commonly used MATLAB functions At the end of this book some basic experiments using DSP trainer kit have also been included Audience This book is intended for the undergraduate students of electronics and communication engineering electronics and instrumentation engineering and instrumentation and control engineering for their laboratory courses in digital signal processing image processing and digital communication Key Features Includes about 115 different experiments Contains several figures to reinforce the understanding of the techniques discussed Gives systematic way of doing experiments such as Aim Theory Programs Sample inputs and outputs Viva voce questions and Examination questions **Manual of Geospatial Science and Technology** John D. Bossler, John R. Jensen, Robert B. McMaster, Chris Rizos, 2001-11-22 Professionals in local and national government and in the private sector frequently need to draw on Geographical Information Systems GIS Remote Sensing RS and Global Positioning Systems GPS often in an integrated manner This manual shows a hands on operator how to work across the range of geospatial science and technology whether as a user or as a contractor of services employing these technologies and without either specialist education or substantial experience The manual covers the fundamentals of each of these topical areas providing the requisite mathematics computer science and physics necessary to understand how the technologies work assuming some elementary background in calculus and physics It also shows how the technologies can be used together and focuses on their commonalities A number of applications such as mapping and environmental modeling are presented and a website accompanies the book *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

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Books in Print ,1994

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biological images Offers tutorials on image processing using open source software in relevant chapter Discusses details of acquisition needs and image media covering pixels pixel values contrast tonal range and image formats In depth presentation of microscopic and biomedical imaging modalities Perfect for professionals and students in the biological sciences and engineering Imaging Life Image Acquisition and Analysis in Biology and Medicine is an ideal resource for research labs biotech companies and equipment vendors **NASA Technical Memorandum , First Comprehensive Symposium on the Practical Application of Earth Resources Survey Data ,1975**

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