

Chapter 1

Introduction

The purpose of this chapter is to present suggested guidelines for teaching material from *Digital Image Processing* at the second and third year graduate levels. We describe our use of the book with you. Although the book is mostly self-contained, the web site offers, among other things, complementary review material and computer projects that can be assigned in conjunction with classroom work. Detailed solutions to all problems in the book also are included in the remaining chapters of the manual.

1.1 Teaching Features of the Book

Undergraduate programs that offer digital image processing typically have coverage in one semester. Graduate programs vary, and can include one or two semesters of the material. In the following discussion we give general guidelines for a one-semester senior course, a two-semester graduate course, and a full-year course of study covering two semesters. We assume a 15-week program per semester with three lectures per week. In order to provide flexibility for course and review sessions, the guidelines discussed in the following sections are based on forty 50-minute lectures per semester. The background assumed on the part of the student is senior-level preparation in mathematical analysis, matrix theory, probability, and computer programming. The Tutorial section in the book web site contains review materials on matrix theory and probability and has a brief introduction to linear systems. PowerPoint slides and presentation material on the review topics is available in the Faculty section of the web site.

The suggested teaching guidelines are presented in terms of general objectives, and not in time schedules. There is so much variety in the way image processing material is taught that it makes little sense to attempt a breakdown of the material by class period. In particular, the organization of the present edition of

the book is such that it makes it much easier than before to adopt significantly different teaching strategies, depending on course objectives and student backgrounds. For example, it is possible with the new organization to offer a course that emphasizes spatial techniques and covers little or no transform material. This is not something we recommend, but it is an option that often is attractive in programs that place little emphasis on the signal processing aspects of the field and prefer to focus more on the implementation of spatial techniques.

1.2 One Semester Senior Course

A basic strategy in teaching a senior course is to focus on aspects of image processing in which both the inputs and outputs of those processes are images. In the scope of a senior course, this usually means the material contained in Chapters 1 through 6. Depending on instructor preferences, sections (Chapters) 7, usually are beyond the scope of coverage in a typical senior curriculum. However, an occasional covering of at least some material on image compression (Chapter 8) is outlined below.

We have found it more than three decades of teaching this material to students in electrical engineering, computer science, and other technical disciplines that one of the keys to success is to spend at least one lecture on motivation and the equivalent of one lecture (or more of background material, as the text advises. The motivational material is provided in the numerous application areas of 2.1 One Semester Senior Course covered in Chapter 1. This chapter was prepared with this objective in mind. Some of this material can be covered in class in the first period and the rest assigned as independent reading. Background review should cover probability theory (at least random variables) before histogram processing (Section 3.1). A brief review of vectors and matrices may be required later, depending on the material covered. The review material in the book web site was designed for just this purpose.

Chapter 1 should be covered in its entirety. Some of the material (Sections 1.1 through 1.1.3) can be assigned as independent reading, but more detailed explanation (combined with some additional independent reading) of Sections 1.1.4 and 1.1.4 through 1.1.4 is time well spent. The material in Section 1.1.4 covers concepts that are used throughout the book and provides a number of image processing applications that are useful as motivational background for the rest of the book.

Chapter 1 covers spatial intensity transform methods and spatial correlation and convolution as the foundation of spatial filtering. The chapter also covers a number of different types of spatial transformations and spatial filtering for image enhancement. These techniques are illustrated in the contrast enhancement

Digital Image Processing 3rd Edition Instructor Manual

**Rafael C. Gonzalez, Richard Eugene
Woods**



Digital Image Processing 3rd Edition Instructor Manual:

Digital Image Processing Rafael C. Gonzalez, Richard Eugene Woods, 2008 A comprehensive digital image processing book that reflects new trends in this field such as document image compression and data compression standards The book includes a complete rewrite of image data compression a new chapter on image analysis and a new section on image morphology

Digital Image Processing and Analysis Scott E Umbaugh, 2017-11-30 Digital image processing and analysis is a field that continues to experience rapid growth with applications in many facets of our lives Areas such as medicine agriculture manufacturing transportation communication systems and space exploration are just a few of the application areas This book takes an engineering approach to image processing and analysis including more examples and images throughout the text than the previous edition It provides more material for illustrating the concepts along with new PowerPoint slides The application development has been expanded and updated and the related chapter provides step by step tutorial examples for this type of development The new edition also includes supplementary exercises as well as MATLAB based exercises to aid both the reader and student in development of their skills

Instructor's Manual for Digital Image Processing Rafael C. Gonzalez, Paul Wintz, 1987

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

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Quality Management in the Imaging Sciences E-Book Jeffrey Papp, 2018-09-11 Make sure you have the most up to date quality management information available Quality Management in the Imaging Sciences 6th Edition gives you complete access to both quality management and quality control information for all major imaging modalities This edition includes a new chapter on digital imaging and quality control procedures for electronic image monitors and PACS revisions to the mammography chapter updated legislative content and current ACR accreditation requirements It also features step by step QM procedures complete with full size evaluation forms and instructions on how to evaluate equipment and document results The only text of its kind on the market Papp's is a great tool to help you prepare for the ARRT Advanced Level Examination in Quality Management Special icon identifies federal standards throughout the text alert you to government regulations important to quality management Includes QM for all

imaging sciences including fluoroscopy CT MRI sonography and mammography Strong pedagogy aids in comprehension and includes learning objectives chapter outline key terms with definitions in glossary student experiments and review questions at the end of each chapter Step by step QM procedures offer instructions on how to evaluate equipment and full sized sample evaluation forms offer practice in documenting results A practice exam on Evolve includes 200 randomizable practice exam questions for the ARRT advanced certification examination in QM and includes answers with rationales NEW Revised Mammography chapter corresponds with new digital mammographic systems that have received FDA approval NEW Updated material includes new technologies ACR accreditation and quality management tools and procedures which reflect current practice guidelines and information NEW Chapter on image quality features material common to all imaging modalities NEW Additional material covers dose levels dose reporting and workflow NEW Expanded material highlights digital imaging and quality control procedures for electronic image monitors and PACS NEW Updated art and colors break up difficult to retain content *Instructor's Manual for Digital Image Processing* Rafael C. Gonzalez, Richard E. Woods, 1992

Manual of Remote Sensing Robert A. Ryerson, Floyd M. Henderson, Anthony J. Lewis, 1998 **Digital Image Processing and Computer Vision** Robert J. Schalkoff, 1989-05-23 An introduction to computer vision and associated digital processing functions Reviews all aspects of image processing pattern recognition geometric optics and artificial intelligence that are important to solving computer vision problems Also provides an introduction to digital image acquisition and display hardware and techniques Discusses special computer architectures for computer vision new neural network applications edge detection strategies and segmentation *Radiation Therapy Physics* William R. Hendee, Geoffrey S. Ibbott, Eric G. Hendee, 2013-05-13 The Third Edition of Radiation Therapy Physics addresses in concise fashion the fundamental diagnostic radiologic physics principles as well as their clinical implications Along with coverage of the concepts and applications for the radiation treatment of cancer patients the authors have included reviews of the most up to date instrumentation and critical historical links The text includes coverage of imaging in therapy planning and surveillance calibration protocols and precision radiation therapy as well as discussion of relevant regulation and compliance activities It contains an updated and expanded section on computer applications in radiation therapy and electron beam therapy and features enhanced user friendliness and visual appeal with a new easy to follow format including sidebars and a larger trim size With its user friendly presentation and broad comprehensive coverage of radiotherapy physics this Third Edition doubles as a medical text and handy professional reference *Whitaker's Book List* , 1988 **Byte** , 1987 **Books and Pamphlets, Including Serials and Contributions to Periodicals** Library of Congress. Copyright Office, 1974-07 **Secure Smart Embedded Devices, Platforms and Applications** Konstantinos Markantonakis, Keith Mayes, 2013-09-14 New generations of IT users are increasingly abstracted from the underlying devices and platforms that provide and safeguard their services As a result they may have little awareness that they are critically dependent on the embedded security devices that are becoming pervasive

in daily modern life Secure Smart Embedded Devices Platforms and Applications provides a broad overview of the many security and practical issues of embedded devices tokens and their operation systems platforms and main applications It also addresses a diverse range of industry government initiatives and considerations while focusing strongly on technical and practical security issues The benefits and pitfalls of developing and deploying applications that rely on embedded systems and their security functionality are presented A sufficient level of technical detail to support embedded systems is provided throughout the text although the book is quite readable for those seeking awareness through an initial overview of the topics This edited volume benefits from the contributions of industry and academic experts and helps provide a cross discipline overview of the security and practical issues for embedded systems tokens and platforms It is an ideal complement to the earlier work Smart Cards Tokens Security and Applications from the same editors **Radiologic Technology** ,1987

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