

Chapter 1

Introduction

The purpose of this chapter is to present suggested guidelines for teaching material from *Digital Image Processing* at the various mid-level year graduate levels. We discuss 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 this 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

Siddappa N.Byrareddy



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