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There are fundamentally two types of digital image files: Bitmap Images - These describe the image in question using dots (=pixels) (like a digital camera produces) - usually... Vector Images - These describe the image in terms of lines, shapes, and splines (which may be packaged up as fonts etc.).

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5.12 Digital Fourier transforms: the discrete fast Fourier transform 134 5.13 Sampled data: the discrete Fourier transform 135 5.14 The centred discrete Fourier transform 136 6 Image restoration 141 6.1 Imaging models 141 6.2 Nature of the point-spread function and noise 142 CONTENTS vii

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Image input devices (Chapter 10) -
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COSC 109 Chapter 2 Chapter 2: Fundamentals of

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A digital image, in its most basic form, is a collection of numbers arranged in two or three dimensions (called matrix). Each of these numbers is encoded into some shade of a color palette. These numbers are called the pixels of the image. So a 1 Megapixel image contains 1 million pixels. Each of them assumes a number varying within a certain range. To illustrate this, let's analyze the following images carefully. Fig. 1.1. The left image is a typical black & white pixel

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image showing some ...

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Sep 02, 2020 Posted By Frédéric Dard Media

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fundamental tools within a powerful mathematical framework. Containing illustrations, examples, and homework problems this book is suitable for advanced undergraduates and graduates in electrical engineering and computer science, and practitioners in industry.

In general, image processing texts are intended for students of engineering and computer science, and there is little written at all on the specific requirements of medical image processing. Students of medical radiation science (Diagnostic radiography,

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Nuclear medicine, Radiation therapy) usually have minimal mathematical and computer science training and find the available texts incomprehensible. A text that explains the principles of image processing in minimally-mathematical language is needed for these students. Contrary to the claims of some textbook authors, the vast majority of technologists that process images do not need to understand the mathematics involved, but would nevertheless benefit from a thorough understanding of the general process.

This is an introductory to intermediate level

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text on the science of image processing, which employs the Matlab programming language to illustrate some of the elementary, key concepts in modern image processing and pattern recognition. The approach taken is essentially practical and the book offers a framework within which the concepts can be understood by a series of well chosen examples, exercises and computer experiments, drawing on specific examples from within science, medicine and engineering. Clearly divided into eleven distinct chapters, the book begins with a fast-start introduction to image processing to enhance the accessibility

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of later topics. Subsequent chapters offer increasingly advanced discussion of topics involving more challenging concepts, with the final chapter looking at the application of automated image classification (with Matlab examples) . Matlab is frequently used in the book as a tool for demonstrations, conducting experiments and for solving problems, as it is both ideally suited to this role and is widely available. Prior experience of Matlab is not required and those without access to Matlab can still benefit from the independent presentation of topics and numerous examples. Features a companion website

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Digital technology now enables unparalleled functionality and flexibility in the capture, processing, exchange, and output of color images. But harnessing its potential requires knowledge of color science, systems, processing algorithms, and device characteristics—topics drawn from a broad range of disciplines. One can acquire the

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requisite background with an armload of physics, chemistry, engineering, computer science, and mathematics books and journals—or one can find it here, in the Digital Color Imaging Handbook. Unprecedented in scope, this handbook presents, in a single concise and authoritative publication, the elements of these diverse areas relevant to digital color imaging. The first three chapters cover the basics of color vision, perception, and physics that underpin digital color imaging. The remainder of the text presents the technology of color imaging with chapters on color management, device color

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characterization, digital halftoning, image compression, color quantization, gamut mapping, computationally efficient transform algorithms, and color image processing for digital cameras. Each chapter is written by world-class experts and largely self-contained, but cross references between chapters reflect the topics' important interrelations. Supplemental materials are available for download from the CRC Web site, including electronic versions of some of the images presented in the book.

Fundamentals of Light Microscopy and

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Electronic Imaging, Second Edition provides a coherent introduction to the principles and applications of the integrated optical microscope system, covering both theoretical and practical considerations. It expands and updates discussions of multi-spectral imaging, intensified digital cameras, signal colocalization, and uses of objectives, and offers guidance in the selection of microscopes and electronic cameras, as well as appropriate auxiliary optical systems and fluorescent tags. The book is divided into three sections covering optical principles in diffraction and image formation, basic modes

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of light microscopy, and components of modern electronic imaging systems and image processing operations. Each chapter introduces relevant theory, followed by descriptions of instrument alignment and image interpretation. This revision includes new chapters on live cell imaging, measurement of protein dynamics, deconvolution microscopy, and interference microscopy. PowerPoint slides of the figures as well as other supplementary materials for instructors are available at a companion website:

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