

## Fundamentals Of Digital Imaging

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Fundamentals of Digital Imaging. For the past fifty years, the primary medium for photomicrography has been film, which has served the scientific community well by faithfully reproducing countless images from the optical microscope. It has only been in the past decade that improvements in electronic camera and computer technology have made digital imaging cheaper and easier to use than conventional photography.

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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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Fundamentals of Digital Imaging H. J. Trussell, M. J. Vrhel The multi-billion dollar industry of digital imaging technology is an active research area with applications in our everyday lives in products such as digital cameras, scanners, printers and display systems.

**Fundamentals Of Digital Imaging**

Fundamentals of Digital Imaging in Medicine is a primer for students of medical radiology, designed to demystify the mathematics that imaging theory resides in. The focus on medical imaging accompanied by an approach that forgoes complex mathematics for intuitive explanation makes this book accessible and relevant to the medical radiology student without advanced training in mathematics.

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**Fundamentals of Digital Image Processing**

Fundamentals Of Digital Image Processing. Author: Anil K. Jain Publisher: ISBN: 9780133325782 Size: 26.97 MB Format: PDF, ePub Category : Image processing Languages : en Pages : 569 View: 968. Get Book. Book Description: An overview of the major topics in digital image processing, representation, processing techniques and communication, this ...

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The primary digital image recording devices are the digital scanner and the digital still camera. In recent years, these devices have become commonplace, leading to a proliferation of digital images. In this chapter, we discuss these devices in detail, focusing on their limitations and variations. In addition, we will discuss hyperspectral imaging, which makes use of more than three bands to obtain information that can be used in multiple illuminant color reproduction and image segmentation ...

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COSC 109 Chapter 2 Chapter 2: Fundamentals of Digital imaging Digitization is to convert analog information to digital data. □ -Digitization is a 2-step process 1. Sampling 2. Quantization In order to get a picture from being blurry you can increase the sampling rate and the bit depth. Both of these cause the file size to increase.

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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 image showing some ...

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