

## Digital Image Processing Part II Kosalmath

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### Digital Image Processing Part II

Digital Image Processing – Part I 9 Introduction. 1. Introduction . 1.1 Digital image processing . Digital image processing is the technology of applying a number of computer algorithms to process digital images. The outcomes of this process can be either images or a set of representative characteristics or properties of the original images.

### Huiyu Zhou, Jiahua Wu & Jianguo Zhang

Digital Image Processing Part II 14 Colour Image Processing Full-colour image processing is more complex than the pseudo-colour case due to the three colour vectors. First of all, one basic manipulation of colour images is namely colour transformation. For example, RGB is changed to HSI and vice versa.

### Digital Image Processing: Part II - Kenyatta University

Digital Image Processing Part II 14 Colour Image Processing If a colour transformation can be expressed as follows:  $\chi_i = T_i(\tau_1, \tau_2, \dots, \tau_n)$  (1.3.1) where  $i = 1, 2, \dots, n$ ,  $\chi$  is target colour image,  $\tau$  is the original colour image and  $T$  is the transformation function. In a very simple case, the three components in the RGB colour space can be  $\chi_i = k\tau$

### Digital Image Processing: Part II

In the previous post we explained how an image can be represented as a matrix of pixels, where each pixel is expressed as a three-dimensional vector, composed by the amount of red, green and blue of the color. In this post, we are going to give some examples about the use of linear algebra in the digital image processing. There are two main kind of image processing:

### Linear algebra and digital image processing. Part II ...

Chapter 7 Part II Digital Image Processing Description: The classification of the feature types represented by digital images using ... of spatial relationships is often a prelude to digital image classification. ...

### PPT - Chapter 7 Part II Digital Image Processing ...

Digital image processing is an important research area. The techniques developed in this area so far require to be summarized in an appropriate way. In this book, the fundamental theories of these techniques will be introduced.

### **Digital Image Processing: Part II**

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### **55:148 Dig. Image Proc. Chapter 4, Part 2**

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Digital Image Processing Computer Assignment # 3 Problem 1. Download the file Square.tif and answer the following questions: i. Smooth the image with a  $3 \times 3$  spatial filter. ii. Smooth the image with an implementation of Gaussian filter in frequency domain. Change the bandwidth of the filter and show how these changes affect the result. iii.

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Image processing is a method to perform some operations on an image, in order to get an enhanced image or to extract some useful information from it. It is a type of signal processing in which input is an image and output may be image or characteristics/features associated with that image. Nowadays, image processing is among rapidly growing technologies.

### **1. Introduction to image processing | Digital Image Processing**

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Image. .. illustrated in Figure 8, where RGB images of the original image are shown accompanying the mean and difference images The strategy used in the averaging procedure is to apply a Gaussian mask (width = 3) to the original image 16 Colour Image Processing Digital Image Processing

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