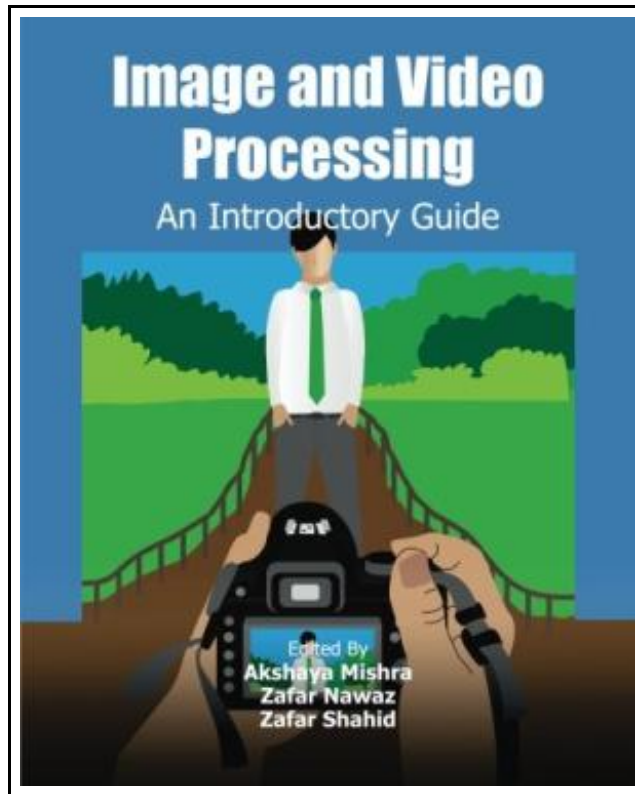# Image and Video Processing: An Introductory Guide (Paperback)

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Reviews

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(Prof. Jean Dare)

IMAGE AND VIDEO PROCESSING: AN INTRODUCTORY GUIDE (PAPERBACK)

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Createspace, United States, 2013. Paperback. Book Condition: New. 254 x 203 mm. Language: English . Brand New Book ***** Print on Demand *****.In today s world, countless number of images are collected using various image acquisition devices. The course of actions taken to enhance the acquired image quality, to extract meaningful information from the acquired image, and to represent these information in a compact fashion is known as image processing. Digital image processing is the use of computer algorithms to perform image processing on digital images. A digital image is a numeric representation of a two-dimensional image. Depending on whether the image resolution is fixed, it may be of vector or raster type. The term digital image usually refers to raster images, also called bitmap images. With the fast computers and signal processors available since 2000, digital image processing has become the most common and cheapest form of image processing. Chapter 1 introduces approaches to estimate depth information for 3D video services. In order to reduce computational complexity and to enhance accuracy of stereo matching, a hierarchical structure of selective cost aggregation is presented. Chapter 2 introduces a multiple camera system which is composed of the multiple color and time-of-flight depth cameras. The proposed method covers the scene capturing using the camera system, post-processing of the captured images, and multi-view depth generation. Chapter 3 presents a novel framework for facilitating the development of vision-based human gesture/action control applications. The proposed approach takes 3D perceptual shape features and the prior knowledge of the human body to build 4D qualitative gesture representation for recognition tasks. Chapter 4 concerned with a system in which most of the motions in the scenes are conservative or near-conservative in a certain temporal interval with multiple image sequences. Chapter 5 illustrates applications on image databases, especially those...

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