

MANAGING
THE CHANGE
FOR BETTER TOMORROW



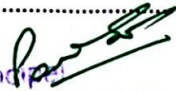
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CHAPTER 21

COMPUTER VISION APPLICATIONS AND ITS FUTURE

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Abstract

Image processing is playing very important role in Computer Vision. In starting, Past computers had only computational capability, but in last few years computer can see and analyze the things by using the image processing and deep learning. Digital images stores in matrix form and each cell are known as pixel. Computer vision use each pixel value of determine the type of object and analyze deeply. In this paper various applications of computer vision are discussed with some challenges and future scope. Machines work automatically by this technology and getting smarter day by day.

Keywords: computer vision, image, pixel, deep learning, image processing.

Introduction

Computer vision have very vast area of applications. The main aim of these applications to work automatically and provides facility to the humans in particular field. The steps which are involved in computer vision are, namely, capture image, convert the RGB image to grayscale, blur the image, if required, identifying the edges in an image, apply the operation to be performed on image. These are the common steps but these steps can change from problem to problem.

Computer vision in Object Detection

In this technology, various data sets of hand written images digits and characters images are used to detect the digits and character at a given input. Detection of handwritten text is done by using the large image data sets and its labels to classify the digit and character. Each pixel of image analyzed and compare against the data set images to produce the result. The same technique also applies detect the objects inside the images and videos.

Computer vision in Agriculture

The Camera and Computer can be use instead of Human eyes to identify growth of fruits and vegetables. To counting the number of fruits on particular tree and feature obtaining from the fruits and vegetables. By using the computer vision crop monitoring can do remotely.