04180301280 Md Labib Arrfin 1 9

(b) The key stages of image grocessing are:

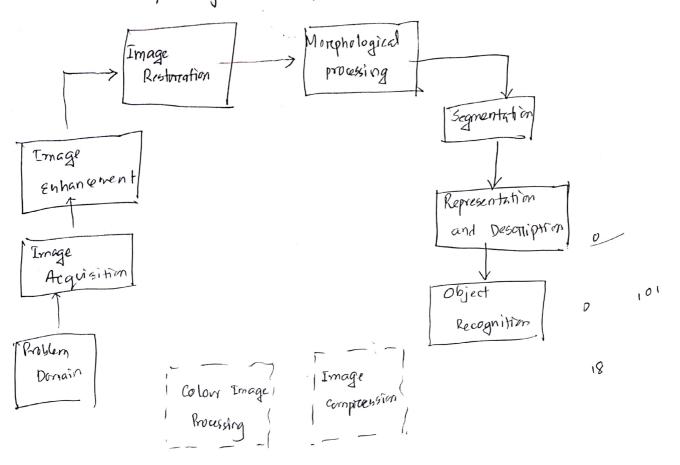


Image acquisition: It is action of retnieving image from an actual source for further processing.

Image enhancement: It is to process of caroding of converting an image file in such a way that it consumes less space man ariginal file.

Image Restoration: Et is to operation of taking a norcy image and estimating to clean, original image. Corruption may come in many towns on towns or work in many towns or work or whom, nice and rate

Morphological browsing: It is a collection of non-likean operations related to chape or norphology in No. 3 of teatrit of an image. Morpho logical operations can be applied to greey scale image such that thin light trans -fen function are unknown and therefore their absolutes pixels valuer are & of no. And or mina

request interest.

gital Image brossing are

ung

restration

Image segmentation: It is the division of an image into region to categories, which correspond to different objects or parts of object. Each pixel in an image is allocal-ed to one of a no. of these categories.

DB-Image lepresentation and descruption is critical for successful delection and recognition of objects in a scene.

ng". Bit plane slicing isolate values and can highlight

image. 136 Object recognition: It is technique of identifying the object-250 189 prexitin image and videos. It is 25 41 175 one of hest of most important applications 160 of machine learning and dery learning.

To highest s 252 25 = 256

Image: Image is an array, or a matrix , of square metrix finels (prome elements) erranged in returns and rows

```
20) 222247778899111114
                     No, of 95 - 2
     No. of 25 = 4
                     ON0, of 15 = 5
     NO . Of 45 = V
     No. of 73 = 3
     No. of 85 = 2
    site = 4+2+3+2+1+ 5 = 18
   resulting & bits
     00100 0010 0010 0010
          0010 011 010 010
      0.29
      0100
 result: 100 010 011 010 010 101 = 18
2 a)
           8 4 2 4 8
          7 3 7
```

This is city back distance of 4

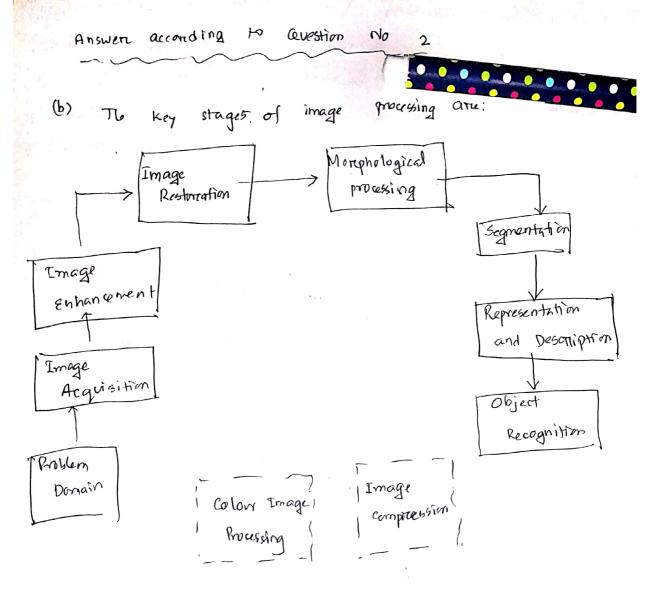


Image acquisition: It is action of retailering image from an external source for further processing.

Image enhancement: It is to prooss of exceeding of converting an image file in such a way that it consumes less space than aliginal file.

Image Restoration. It is to operation of taking a narry image and estimating the clean, original image. Corruption may come in many forms as mation blum, notice and rate carrera mis focus

Morphological housing: It is a collection of non-likean

operations related to chape or norphology of teathers of an image. Morpho logical operations can be applied to grey scale image such that their light trans for function are unknown and therefore their absolutes pixels values able to of no. And or ining request interest.

Image segmentation: It is the division of an image into region to a categories, which correspond to different objects of parts of object.

Each pixel in an image is allocated to one of a no. of these categories.

EB-Image lepresentation and description is critical for successful delection and recognition of objects in

Object recognition. It is technique of identifying the object present in image and videos. It is one of hest of most important applications of machine learning and deep learning.

Image: Image is an array, or a matrix, of square matrix (lines (picture elements) arranged in columns and runs.