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SUBJECT

Data image
processing.

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Filtering:-

It is technique used for modifying or enhancing the image.

~~Expt.~~

Example:-

You can filter image to change certain features.

includes smooting, sharpening, and edge enhancement.

Types:-

There are four major types of filtering.

- *. Low pass filter
- *. High pass filter
- *. band pass filter
- *. Notch filter.

Low pass filtering:-

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The most basic of filtering operation is called low pass filter.

It's do smooting or blurring.

The simplest low pass filter just calculate the average of a pixel and all it's eight neighbour.

High pass filtering:-

A large variety of image processing when a high frequency passing low frequency is called low pass frequency where filter don't affect high frequency called High pass.

usually used for sharpening.

Bandpass filtering:-

A band pass attenuates very low and very high frequency but a retain a middle range band of frequency.

used for unhamcment of edges.

Notch filter:-

Are used to remove repetitive Spectral noise from an image are like a narrow high pass filter.

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Q2) Masking:-

In digital image processing, masking refers to the act of changing the colors of certain area of a picture or transferring these areas onto another background.

On an independant layer, the color of this scoop can then be edited. The filter used for this method allows for the details of the picture to be maintained.

Some of it's types:-

Layer Masking

Clipping Masking

Alpha channel masking

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Working:-

Masking is used to create different color variants of a specific product. So instead of being busy with taking countless pictures of different colors, the photographer can take a single picture of an item that can be used for all colors.

It reduces the overall efforts depending on the number of color samplings.

Example:-

The face of the model is not exact in one picture where the piece of clothing is, two pictures can be easily combined to create a final image.