Computer Vision

CS – GY – 6643

Otsu Thresholding Report

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2/22/2024

1. Show the histograms for each image

Original Image and Histogram:

A monkey with a bite taken out of its mouth

Description automatically generated A graph of a graph

Description automatically generated

Otsu Thresholding Image and Histogram:

A close-up of a monkey

Description automatically generated A graph of a number of data

Description automatically generated with medium confidence

1. Generate a plot of the inter-class variance as a function of the chosen threshold (i.e., x-axis with each possible threshold from 0-255, y-axis with the resulting variance).

A graph of a normal distribution

Description automatically generated

1. State the inter-class variance of the image upon completion of the algorithm - 1448.013
2. Note the intensity threshold chosen by the algorithm – 131.

Original Image and Histogram:

A close-up of a microscope

Description automatically generated A blue line graph with numbers

Description automatically generated

Otsu Thresholding Image and Histogram:

A close-up of images

Description automatically generated A graph with a blue line

Description automatically generated

Original Image and Histogram:

A microscope view of a cell

Description automatically generated A graph with blue lines

Description automatically generated

Otsu Thresholding Image and Histogram:

A close-up of a microscope

Description automatically generated A graph with a blue line

Description automatically generated