An Enhancement of digital image steganography based on PVD and modulo operation using histogram

With the help of Dual PDMO and Single APVD.

Major Techniques used:

# PDMO (Pixel Differencing Modulo Operation)

PDMO is a technique used mostly in steganography to embed or conceal a value within a picture. It is hidden in such a way that it is visually hard to determine whether the image contains any value. To accomplish this, we first compute the difference between the pixel values and then apply modulus, so that we can determine the value of the difference using certain rules, which we will cover later. This value is then used to embed the binary bits.

## PDMO Process

Assume that there are two pixels to which the PDMO approach should be applied. The following are the specifics of the techniques:

1. Calculate the difference in pixels . Additionally, if a negative difference occurs, it will be trivial to adjust its absolute value, as symmetry dictates that all conceivable values are equally relevant. .

# APVD (Average Pixel Value Differencing)