MEHMET HAMDİ USLU
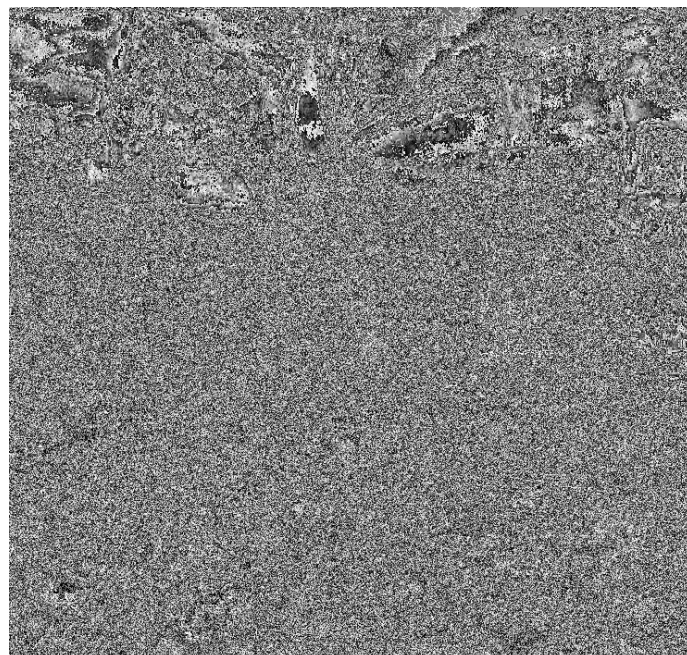## 2400000145

Image Processing Project

We were assigned to find a conference paper and create applications similar to their work on any PL we want. I have chosen Proceedings of International Conference on Computer Vision and Image Processing CVIP 2016, Volume 2 and as paper Reference Based Image Encoding S. D. Yamini Devi, Raja Santhanakumar, K. R. Ramakrishnan which was on Pages 139-149.

In this paper Devi et al. (2017) explained how a image can be encoded with another image. Which was used as a decoder and a encoder. I really enjoyed my read and decided to use this paper as my application. I have choosen two images. Which are grey scaled to easier application.Left one being image to encode and the right one being key for encode and decoding

After necesarry codes are written every pixel of image 1 is multiplied by image 2's pixels which creates an image that is broken and can be seen. When the image is decypted with correct images results are quite nice yet when decyrpted with wrong image results are very

disturbing to look at. Left one being the wrong result. Right one being correct result.

To sum up I managed to create a program that is not perfect yet working efficiently. To make program work with different images. Image have to be replaced with same named images.