IX. CONCLUSION

On the basis of result we came to conclusion that parameters of Gabor filters plays an important role in face detection and we can vary only few parameter on the basis of the normal, far and near cases. The conclusions are as follows:

Distance of the face from the camera plays an important role in face detection. The pixel size of the face is generally small when the face is generally at large distance and therefore it is under-sampled while the face which is closed occupies larger pixel area and therefore being oversampled has greater chance of detection. Increase in scaling prefers near Images and vice versa.

The Orientation of Gabor wavelet filter is responsible for different angle edges.

The value of sigma and maximum frequency parameter in Gabor wavelet filter is very sensitive for the type of features. Any deviation in these two decreases the performance. Therefore we have fixed these values of sigma=pi, freq=pi.

The Variable window size helps but does not ensures detection of all faces in image. Effects of parameter changes on face detection have been done.

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