

## ABSTRACT

In a major dictionary, pornography is a matter of human sexuality that created in form of pictures, sketches, illustrations, photographs, writings, sound, moving image, animation or other form of message communication through various forms of media communication that can arouse sexual desire or violate the values of decency in society. Pornography can be detected through digital image, one of them by using skin detection.

Skin color detection is used to distinguish between human skin color and not the human skin on an image. In the process, skin color detection using histogram analysis of the image on already modified its format to YCbCr. From the histogram analysis obtained limits minimum and maximum values of Cb as a skin color. This system also uses a neural network backpropagation artificial to distinguish categories of adults and infants.

The result of this research is acquiring the optimum range of Cb between 82.6613 dan 148.306 and also give the accuracy of searching and pornographic identification in 4 folders with each accuracy 88%, 85.83%, 79.62%, and 88%.

Keywords: Pornography, Histogram Analysis, YCbCr, Backpropagation.