Abstract

Gender classification is one of the problems in computer vision, gender classification is also often used in applications since the increasing number of users in social media. Nevertheless, previous methods are using large dataset to solve this problem. Therefore, learning method with small dataset used to assess the capability of the dataset. In this study, a simple Convolutional Neural Networks (CNN) architecture used for the small amount of data train and tested with UTKFace dataset. The model was able to reach 67.66% accuracy for model that were trained with Multimedia Lab dataset and 49.12% for model that were trained with Adience dataset. These results prove that the architecture of the model with Multimedia Lab dataset outperforms the previous architecture.

Keywords: Convolutional Neural Networks (CNN), gender classification, computer vision, deep learning