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Relabeling the imperfect labeled data to improve recognition of face images using CNN

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The paper considers the problem of improving
the recognition of not-perfect labeled face images using CNN
networks. The proposed solution is based on relabeling the
samples of images by applying the KNN classification principle
based on the distance between the samples. The original images
are first converted to the features and the KNN principle is
applied to them. The classes of sample images are relabeled
according to the class represented by most neighbors indicated
by KNN. The developed system was tested on the problem of face
recognition. The dataset was composed of 68 classes of grayscale
images. The results of experiments have shown significant
improvement in the recognition rate of not perfectly labeled
images

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