

Tracing Gesture and Extracting Gait Feature to Recognize Human using Deep Learning

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Abstract. Human gait gives essential features in determining human identity for security purpose. In this paper using gait data we propose an identification and recognition system. Here we use the data from casia dataset and then gather its features using PCA technique then classify it using various deep learning techniques and shows the best technique to classify. Here we are doing statistics analysis using anova. Classification shows the better results than the previous classification technique used by LSTM results and their cross-validation, Receiver operating characteristic (ROC) curves, along with sensitivity, specificity and confusion matrices, are used to analyse classification models.

Keywords: Gait recognition; bag-of-gait; biometrics; human identification; video surveillance
