

Abstract

Face Recognition is a biometric-based technology system that is used to identify someone from a digital image or video by analyzing their faces using certain algorithms. Increasing accuracy in facial recognition is a challenge for researchers. In previous studies [1], face recognition using features extraction of Local Binary Pattern features at a low resolution of 35 pixel has reached 90% accuracy. In this study, the author made a face recognition system using the Local Binary Pattern method and combined it with the Principal Component Analysis to improve previous research, and achieved 94% accuracy at low resolution.

Keywords: *Face Recognition, Local Binary Pattern, Principal Component Analysis, Feature Extraction*