FACEIT

FACE DETECTION IN ATMS - IMAGE PROCESSING

Abdul Qadir Kaizar

Submitted in partial fulfilment of the requirements for
Bachelor of Engineering (Honours) degree in Software Engineering

Department of Computing

Informatics Institute of Technology, Sri Lanka
in Collaboration with
University of Westminster, UK

2020

Abstract

Security is something everyone wants and needs in this technologically evolving world. Banks especially where the most precious item in our life, money is kept, requires the best security. ATMs nowadays are a common utility used by even the middle-class person. Even with all the security ATM has it is a common place for criminals to target for easy cash. A solution to overcome this challenge is a tough one, by controlling the access given to ATM based off of facial recognition and covering of the face to hide the identity is the solution. Most of the solutions don't check for facial features or have not been implemented outside of ATMs. Facial recognition is used in many places like the Airport and our smartphones as well. Using facial recognition to grant access to the ATM only if the user is not covering their face using any material of any sort, will limit the number of perpetrator trying to gain forceful entry to the ATM and commit a crime. This proposed solution intends to limit the crime rate and help make the ATM a much safer place to store money, as well as make it safer for users to access without having to worry.

Key Words

Image Processing

Face Recognition

Face Detection

Facial Feature identification