# HUMAN BEHAVIOUR RECOGNITION, IDENTIFICATION, AND COMPUTER INTERACTION

Edited by

Othman Omran Khalifa, B.Sc., M.Sc., Ph.D., International Islamic University Malaysia

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### Chapter 23

### An Application of Biometric Technology: Iris Recognition

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### 23.1 INTRODUCTION

Human identification has always been an interest continuously explored by human. The need for identification comes from the need to detect and to recognize people for security, verification, validation and recognition and many other reasons. One method of identification that attracts among the greatest interest is biometric identification. Biometric identification deals with the identification of various traits of our body. Biometric identification relies on the unique traits and pattern consist of voice, face, body, birthmark, iris, palm-print, finger-print and many others. Among those, iris recognition generates the greatest attention in the last 20 years due to the accuracy and the reliability of the recognition. Iris recognition is arguably the most reliable biometric identification currently available. Iris lies inside the the sclera, which is the white part of our eye. Inside the iris lies the pupil. The characteristic of iris is unique for every individual. It also differs between identical twins. The characteristic is even different between the left and right eyes. The iris consists of limitless patterns that made it very reliable in detection and recognition when compare to other biometrics such as thumb-print and facial recognition. Figure 23.1 shows the front view of a human eye.

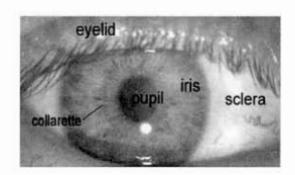


Figure 23.1: The front view of a human eye