

**Military Technical College
Kobry El-Kobbah,
Cairo, Egypt**



**8th International Conference
on Electrical Engineering
ICEENG 2012**

Biometrics: The Next Era of the Authentication Technology

By

Ali Ismail Awad

Kyushu University, Japan

Abstract:

Unlike the traditional authentication systems, biometrics technology is based on something we are such as fingerprint, face, voice, and iris patterns. Biometrics technology is immutable for forgery, duplication, guessing, and hacking, therefore, it overcomes most of the traditional techniques problems. Due to its high reliability and security confidence, biometrics authentication can be deployed in many sensitive domains including physical access to restricted areas, e-commerce, and electronic banking. Moreover, the implementations of biometrics authentication can be extended further to cover the network security and the client-server based authentication scheme. Biometrics authentication is keep growing day by day, but similar to any security system; it has many challenges with respect to the processing time, the authentication accuracy, and the overall system's reliability. Many research themes have been developed to tackle different biometrics problems and the output of these researches contributes very well for closing different biometrics authentication wholes.