

Progress of Ubiquitous Information Services and Keeping Their Security by Biometrics Authentication

Kazuo Asakawa

Fujitsu Laboratories, Ltd.
4-1-1 Kamikodanaka, Nakahara-ku
Kawasaki 211-8588, Japan
asakawa.kazuo@jp.fujitsu.com

With progress of both fixed and mobile networks, various ubiquitous information services have been brought up to apply in actual business scene. In fact, it becomes possible to receive and send information in various access points not only in offices but also in cars through sophisticated ubiquitous terminals such as PDA, cellular phone, mobile PC and so on. Moreover, the spread of RFID-tag application to household commodities will accelerate the popularization of ubiquitous services. Every ubiquitous terminal will have RFID reader/writer on board in near future. By using the ubiquitous information service environment, variety of services such as e-government, e-bank, e-commerce, Intelligent Transport Systems service that usually require customized services for each customer has already been provided. However, high-tech crimes such as skimming and phishing are increasing day by day inversely increment of its convenience. Such high-tech crimes were happened in worldwide actually. It is impossible to keep security by 4 or more digits PIN code any longer. Biometrics authentication is promising to protect against high-tech crimes in the present situation. I will give an overview of current ubiquitous information services, focusing on some of actual services in keeping security by biometrics authentication.