

## **A Study on User Authentication Method Using Haptic Actuator and Security Evaluation**

**Authors :** Yo Han Choi, Hee Suk Seo, Seung Hwan Ju, Sung Hyu Han

**Abstract :** As currently various portable devices were launched, smart business conducted using them became common. Since smart business can use company-internal resources in an external remote place, user authentication that can identify authentic users is an important factor. Commonly used user authentication is a method of using user ID and Password. In the user authentication using ID and Password, the user should see and enter authentication information him or herself. In this user authentication system depending on the user's vision, there is the threat of password leaks through snooping in the process which the user enters his or her authentication information. This study designed and produced a user authentication module using an actuator to respond to the snooping threat.

**Keywords :** actuator, user authentication, security evaluation, haptic actuator

**Conference Title :** ICIIS 2014 : International Conference on Intelligent Information Systems

**Conference Location :** Osaka, Japan

**Conference Dates :** October 12-13, 2014