

AN ADVANCED APPROACH TO INFLATE THE SECURITY OF AUTHENTICATION PROCESS USING SENSORS

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Access card authentication is critical and essential for many modern access control systems, which have been widely deployed in various governments, commercial and residential environments and it is very challenging to fight against access control system breaches due to reasons such as loss, stolen or unauthorized duplications of the access cards. Although developed biometric authentication techniques such as fingerprint and iris recognition can further identify the user who is requesting authorization, they incur high system costs and access privileges cannot be transferred among trusted users. In this work to introduce a Dynamic Authentication by Access Control System Using Android Accelerometer Sensor Based it's combining sensory information obtained from onboard sensors on the access cards as well as the original encoded identification information, we are able to effectively tackle the problems such as access card loss, stolen and duplication. Our solution is backward-compatible with existing access control systems and significantly increases the key spaces for authentication demonstrate simple rotations can increase key space by more than 1, 000, 000 times with an authentication accuracy of 90% and implemented our design on WISP to verify the system performance.