**IMPROVEMENT OF A PIN-ENTRY METHOD RESILIENT TO SHOULDER SURFING AND RECORDING ATTACKS IN ATM**

**ABSTRACT:**

The system components (such as service providers, networks, servers, hosts, applications, procedures, and employees) that are utilised to exchange PIN-related data are included in the work's scope. This document's PIN Guidelines cover PIN security both within and across systems, as well as within any given system or subsystem. This procedure uses a Fast Finite-State Algorithm for Generating RGB Palettes of Colour to construct a 10-digit keypad with a random RGB colour scheme. In this work, we present a colour finite-state LBG (CFSLBG) method that takes advantage of palette entry correlations between current and past iterations to save computation time.