

## **Designing smart health CARDS insured and linked to the citizens' biological identity**

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### **Abstract**

The smart health card offers many services that the regular identity card cannot accommodate, such as: illness history of citizens, dispensing drugs, allergies to certain drugs, etc., and the healthy card is provided by governments, companies or medical associations for certain fees to provide health insurance service easily and quickly. It is applied to private or public health insurance and carries the names of the citizen's parents, his marital status, his wife's name and children and his personal photo. In case of any accident that might happen for the person, it allows the permission to treat and dispense medicines to the citizen. This means that it is not limited to health insurance, but can be extended to other services such as pharmaceutical services, salary services, pensions, etc. The problem of the research is the absence of an updated health care insurance card system for the Egyptian citizen, which can register all his data, and until now a regular card is used in many governmental places that does not contain details about the health status of the citizen. This research aims to create an integrated database system to manage the health insurance data of citizens by means of a secured biometric smart card and improvement of the levels of security of the healthy card by providing convenient and secured identity authentication using secured smart cards.

### **Key Words:**

biometrical - Card Application Management System (CAMS) - personal information- chip-security features.