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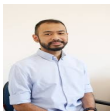
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II. RELATED WORK

Indeed, we are not the first to observe the flaws and limitations of the present day vehicle security systems. Several researchers have discussed potential vulnerabilities in automotive security systems. [2]. The traditional security systems as priced low, but they merely act as an alarm system and are no match to the well equipped thief. Many security systems have been proposed over the years, e.g. [4], [5], [7], [9], [19], [20], but almost all the recent advanced security systems are designed especially for cars. Several researchers have even used image processing technology to capture the face of driver and compare it with the picture of authorized drivers to detect the intrusion [14], [15]. Whereas some proposed systems include fingerprint detection system [16] along with face detection. These security systems are complex, costly and cannot be implemented on two wheelers. Two wheelers offer very less space to install the security module and hence even area is one of the major constraints. The demand is to design a system that performs necessary function, simple to operate, reasonably priced and small enough to be placed under the seat of the vehicle.

III. DESCRIPTION OF PROPOSED TWO WHEELER VEHICLE SECURITY SYSTEM

An overview of the complete system is described in this section before detailing the specifications and the necessity for each module in the system. The general view of operation of the proposed security system is shown in fig. 1. The conventional handle locking system is replaced by a handle lock operated by servo motor and controlled by the Remote Keyless System (RKS). RKS has a transmitter and a receiver module. The receiver module is installed on the vehicle and the owner of the vehicle has the remote transmitter module. The RKS remote could be used to lock/unlock the locking system (handle lock, fuel lock and rear wheel lock), switch ON/OFF the engine and to turn off the alarm. Fuel lock replaces the lock at the nozzle of fuel tank. Rear wheel lock is used to jam the sprocket of the wheel.



Figure 1: General view of TWVSS operation.

The vehicle owner's cell phone with the registered Subscriber Identity Module (SIM) number acts as the master key of the security system. It is given higher priority over RKS and hence it can override the instructions from RKS. A Short Message Service (SMS) is sent to the registered SIM via the Global System for Mobile communication (GSM) module whenever the vehicle is unlocked using RKS remote. Owner can in turn send a SMS to initiate the locking sequence, if he/she feels an unauthorized person has unlocked the vehicle [18]. Global Positioning System (GPS) module is used to track the location and monitor the speed of the vehicle. Piezoelectric sensors are used as vibration sensors to detect any tampering with the vehicle. Two sensitive levels are chosen so as to nullify the chance of false alarming [20]. The owner is alerted by an SMS and loud alarm is activated, if there is any physical tampering with the vehicle or if the vehicle has been moved from the place where it was

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Proceedings Of The Section Of Sciences Volume 6 Issue 1