ABSTRACT

Personal security and safety of one’s property is not just one’s basic need but one’s basic right, too. Had it not been for this fact, there wouldn’t have been any laws, law enforcement bodies, system of justice, and any question of good governance and government. Apart from these highly sophisticated means for protection of human safety in terms of physical security including health, economic security, and social security, there have been other systems in place for safety purposes. These include home, shop, or office automation, deployment of security staff, installation of CCTV cameras, buying insurance policies, and so on. However, each of these measures costs great money to the security seeker. The system presented in this chapter, based on human (and/or animal) detection using passive infrared radial (PIR) sensor and mobile technology, is a cost-effective security solution to those who cannot afford large investments in their personal and property safety.
INTRODUCTION

According to Abraham Maslow, need for personal security takes precedence in one’s priorities, once the physiological needs are satisfied (Tay & Diener, 2011). Ranking second on Maslow’s hierarchy of needs, needs for safety and security include personal security, financial security and need to stay healthy, enjoying well being. Though there is water-tight division between the different types of needs for personal security, unfulfillment of one may have domino effect on others too. For instance, exposure to physical or emotional abuse may knock out every desire in one to rise above and prove one’s mettle, jeopardizing one’s socio-economic status. These threats may include bullying or psychological harassment, physical torture, violation of economic safety, etc. Burglary, theft, vandalism, physical assault, etc are different forms of such threats. Unfortunately, these incidents happen around us on a routine basis. An individual, family, or entire institution may experience these threats, unalarmed.

Given the routineness of violation of personal/physical security, individuals and institutions resort to a variety of safety measures. The hiring of a security staff or contracting a security company is foremost amongst the safety precautions. Some people go one better, automating their place, and/or installing Closed-Circuit TV (CCTV) cameras in the offices, homes, schools and malls in order to forestall or timely check any untoward actions. However, despite the presence of a full staff of security personnel and CCTV cameras, incidents of forced break-in, armed robbery, vandalism, close quarter attacks and holding inmates and/or visitors hostage for financial or propaganda gains have occurred unceasingly. For example, the California Headquarters on April 3, 2018 (Sherr I., 2018), the gang robberies of Allied Bank on 6th Road in Saadiqabad, Rawalpindi, on March 1, 2018 (Asghar, 2018) and Apna Microfinance Bank, Khaaradar, Karachi on August 1, 2018 (Express Tribune, 2017).

Assurance of personal security or safety is not simply an elemental need but one’s right to self protection. In view of consistent failure of existing personal security systems and tools, we have tried to come up with an efficient fool-proof security solution in the form of a security system based on a Passive Infrared Radial (PIR) Sensor and mobile technology. If fitted right on the main gate or entrance to a building, the system undetected gets activated by the warmth of the passing object—human or animal—, sends signal to the circuit which in turn sounds an alarm, turn on light and speed dials the number set in the mobile set of this system. Whether the owner of the place where this system is fitted is present on the venue or not, the timely alert can help them thwart any toward situation involving burglary and vandalism. On-site activation of buzzer and flashed light is very likely to instill fear of being
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