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ABSTRACT

The novel technologies developed aim at reducing the costs of the health sector, by increasing the empowerment of people and, in the same time, by improving the monitoring of patients with chronic diseases. Through the continuous assessment of symptoms, such systems can help the patients to managing their condition by their own, without needing direct supervision of specialized healthcare personnel. Currently, the patient monitoring systems based on internet of things (IoT) or cyber physical systems (CPS) are attracting considerable attention from the scientific community. Such emerging technologies have been used to various purposes: facilitate smoking cessation monitor patients with chronic heart failure detect early signs of arrhythmia or ischemia, provide diabetes education or monitor relevant physiological markers . can effectively link disparate Bitcoin transactions to a common user and, in many cases, to that user's real-world identity.

However, individuals with disabilities are likely to engage in behaviors that can put their health at risk and there is a strong need of technologies that can improve their daily-life conditions, enable social relations, and increase their degree of autonomy and safety. Here we focus on a particular case of disability, which is the visual impairment. Nowadays, more than 285 million people worldwide suffer from visual impairment (VI) with 39 million of blinds and 246 million people with low vision. The World Health Organization estimates that by the year of 2020 the number of individuals affected by VI will significantly increase. The visually impaired people adapt to normal life by using traditional assistive aids

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