IOT BASED EALDERLY PEOPLE MONITORING SYSTEM

**ABSTRACT**

Nowadays, many developed countries in the world, have gradually entered the high aging elderly people society and the population of the elderly people is still increased.

Today, we are forward to meeting an older people society in the world. The elderly people have become a high risk of dementia or depression. In recent years, with the rapid development of internet of things (IoT) techniques, it has become a feasible solution to build a system that combines IoT and cloud techniques for detecting and preventing the elderly dementia or depression. This paper proposes an IoT-based elderly behavioral difference warning system for early depression and dementia warning. The proposed system is composed of wearable smart glasses, a BLE-based indoor trilateration position, and a cloud-based service platform. As a result, the proposed system can not only reduce human and medical costs, but also improve the cure rate of depression or delay the deterioration of dementia.

**BLOCKDIAGRAM**

**ARM**

**MICRO**

**CONTROLLER**

**POWER SUPPLY**

**MEMS**

**LCD**

**VOICE IC APR9600**

**GSM/GPRS**

**SPEAKER**

**SOFTWARE TOOLS:**

1. Keil compiler
2. Embedded ‘C’
3. Express PCB

**HARDWARE TOOLS:**

1. Arm microcontroller
2. Power supply
3. Gsm
4. Mems
5. Speaker.
6. Voice ic
7. Lcd