Comparative Study of Blind Support Devices: A Review

RGS Deemantha#, B Hettige

Department of Computer Engineering, Faculty of Computing, General Sir John Kotelawala Defence University, Sri Lanka

Abstract. Education is the foundation of life. To educate there are many activities to be done. Visually impaired persons experience many barriers to education including inaccessible information from the environment and require support from another to overcome those. To educate mental stability is essential. Travelling from one place to another and obstacle detection is another key challenge faced by visually impaired people. Person identification like mother and father, money identification is another difficulty faced by these people. To overcome those various existing systems available now. But they are in a high price range which cannot be accepted by middle-class people. Blind support devices began with the white cane. In Sri Lanka, there is no that kind of solution to reading or writing in Sinhala for a blind person. Google glass is the newest technology for visually impaired devices, but it is over 1200$. Using a survey found that most blind people want to do their work individually. This paper presents a comparative review of existing blind support devices and a survey on function, method of warning, and place of wearing. According to the survey most of them like head-mounted devices and voidable warning methods. Using this Survey and comparative study gives proposed solutions for these blind persons.

Keywords: *Smart Specs, Sensor, Survey-Based, Technology*