Abstract

A blind person has to depend mainly on other senses, particularly of hearing ability to get information of the surroundings. Modern technology has given a blind person the ability to read through touch, but not much is available to give him or her freedom in movement except the common white stick. This paper describes the work which is based on the use of technologies to improve visually impaired people's mobility. Also, it focuses on obstacle detection in order to reduce navigation difficulties for visually impaired people. Moving through the unknown environment becomes a real challenge when can't rely on own eyes. The work present is based on the use of new technologies like Ultrasound transducer, microcontroller, and nerve stimulation to improve visually impaired people's mobility.

References

2. Borenstein, J., Ulrich, I.: The GuideCane: A Computerized Travel Aid for the Active
An Obstacle Detection in Order to Reduce Navigation Difficulties for Visually Impaired People


**Index Terms**

Computer Science

Artificial Intelligence

**Keywords**

Ultrasound transducer, echolocation, microcontroller, nerve stimulator.