Object Detection System using Arduino and Android Application for Visually Impaired People

International Journal of Computer Applications
Foundation of Computer Science (FCS), NY, USA

Volume 181

Number 15

Year of Publication: 2018

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10.5120/ijca2018917797

Abstract

This paper explores the working principle and applications of an Arduino board together with Android. This also explores on how they can be used to create an object detection system which can give response in speech format. At present many blind assistive systems have been implemented but here in this paper a proposed system which is android based and it detects the object in front of the blind person. The blind person is directed through English voice commands generated by the application according to the obstacle position. Our proposed system will be beneficial for applications such as assistive robots for people with visual disabilities or in industrial applications such as work robots.

References

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**Index Terms**

Computer Science

Image Processing

**Keywords**

Arduino, Android, Object Detection, PIR sensor