

**System for Detection and Identifying Objects and Their Distances for
Blind People (DIDB)**

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ABSTRACT

This system help the blind peoples for detecting and identifying objects and their distances, its tries to transform the visual object into audio through simulator program with the potential to inform blind people objects (name, location).

The system composes of several modules. The image is captured with a portable camera device and distance through indoor position system fixed in the room; by using DIDB simulator installed in a server for real-time image recognition with existing objects detection and their distance .The captured image will be processed through the algorithms. Objects inside any room will be stored in the object database by using IPS system. The tested image is compared with the database objects. After that detected and recognized objects (name, location) to audio so that the blind can hear and know objects, and their distance.