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Voice Recognition Application Based Home Automation System with People Counter

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Abstract:
Home Automation is a new technology that is growing in this era. It has the capability to provide supporting systems to the fast changing world, elderly and physically challenged people. This paper explains the use of overall design which has been built and implemented. The Wireless Home Automation System (WHAS) with the help of Voice Recognition Application, makes the installation and implementation, cheaper and easy to use. Foot Step Counter is the second part of this paper which deals with the automatic switching of lights. Its need is, when there is no time to start the application, or to connect through Blue-tooth, the person passes door and lights within the room will be switched. In this paper, we have observed range of voice recognition application to be 1.5 meters. The voice recognize accuracy achieved is 85.25% with four parameters of access groups.

⦂ Contents

I. Introduction

As the world is advancing, automation is spreading everywhere even to our homes. Regarding this, a new automation system is designed which not only saves time but also helps the elderly and disabled people in making their life easy. [1] The design basically focuses on switching ON/OFF various loads in the house through voice. This technology provides long term performance which will support the homes with comfort. [2] The design uses the Bluetooth technology and Android platform to provide the facility of home automation. An application is build which interacts with the latest android technology and along with the help of blue-tooth facilities in a Mobile provides the feature of giving commands and then processing it into logics which help in switching ON/OFF the loads. [11]

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