

* Paper :- Name

Paper Name

Smart Home Automation System Using Bluetooth Technology (IEEE)

Author

Muhammed Asadullah
Khalil Ullah

Abstract

- Home automation system is ~~presented~~ presented with the help of Bluetooth module, smartphone, ultrasonic sensor & moisture sensor.
- ~~Uses~~ Smartphone application controls devices using bluetooth technology.
- It has ultrasonic sensor for water level detection & soil moisture sensor.

Merits of Paper

- It uses Bluetooth technology for wireless communication.
- Ultrasonic sensor to calculate distance from physical objects (HC-SR04).
- Soil moisture sensor is used to measure water content inside the soil.

Demerits

- It only controls the appliances within short range.
- not suitable for handicapped people.

Conclusion

- Low cost - user friendly home automation system.
- ~~reduces~~ reduces human labour & saves energy.

Future scope

— It uses Bluetooth technology which is easier than wifi module.

— It is possible to interface with biomedical signal benefiting for amputees control the appliances.

Survey
Name: Smart Home Research

Author: LI JIANG, DA-YOU LIU
BO YANG

Abstract: Smart Home Research to
describe smart home climate
typical research projects.
smart home appliances ~~at last~~.

Results

- Intelligent Control
gateway to manage systems.
- Smart pen
- smart wardrobe
- Smart dressing table
- Smart mat
- Smart pillow

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Conclusion: ~~Research~~

Research on various ~~projects~~ equipments
survey for smart home research

Paper Name

Smart Home Automation System using
IR, Bluetooth, GSM & Android

Author name : Anuja Shinde
Shobha Kanade
Namrata Jugale
Abhijeet Godekar
Rambabu A Vatti

Abstract:

- It uses IR remote, Bluetooth, GSM & Android app to control A/C appliances & Android app.
- To let people know about the technologies, make it simple for ordinary people to understand.

Merits

- Uses IR remote, Bluetooth, GSM & Android App to control appliances
- Electrical appliances are controlled with clicks of application.
- It uses Arduino UNO

Android

GSM module - when we press a button on GSM module or SMS goes to GSM module through smartphone

Bluetooth module

- For serial communication setup.
- When a button is pressed data is sent via serially using Bluetooth of phone to Bluetooth interfaced with Arduino.

TSOP 48738 is an IR receiver

Relay module

Next continue

Emergency If control circuit fails then manual switching option is used

Conclusion

- simple economical simple
- allows extensive range of developments

Advantage

future scope

- System can
- System can be made more intelligent for building automation, hospital automation for patients & for farmers
- Different sensors can be attached such as motion sensors, light sensor, Flame to provide safety.
- Automated toggling of device can be implemented.
- wifi Ethernet Home A HAS can be developed