Abstract

One of the promising areas in the smart systems is the smart home, which has different benefits such as increased security, safety, save energy, time, and money and gives more comfort. In addition it can be used to support and help people with disabilities and special needs elderly people. In this paper part of the outdoor smart home is presented which is the smart recycle Bin. Solid waste accumulation is one of the difficult environmental problems that face many countries around the world. In order to solve this problem, some concept based on (reduce, reuse and recycle) should be used. The smart system suggested in this paper is based on IoT for solid waste management. This system would be alternative to the traditional system that is used in collecting waste. The proposed system in this paper would enforce the people to classify their waste in order to recycle it. The process of waste classification from the source would save time and money. This system should be flexible, effective, and low cost which depends on using Wi-Fi and Internet of Things (IoT). DeviceBit and Blynk are used as platforms for monitoring, controlling and getting real time notifications. Experiments were conducted to demonstrate the feasibility and effectiveness of the proposed system.
References


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Index Terms

Computer Science    Distributed Systems

Keywords

Smart Waste Management, Smart Recycle Bin, Real time