

Paper name: "Smart Waste Management System Using Internet-of-Things(IoT)" by
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1. Introduction

This introduction highlights the importance of IoT in making cities greener, safer, and more efficient by connecting various devices and infrastructure. It emphasizes the need for collaboration among stakeholders and the challenges in building sustainable, standard-based smart city solution. This paper introduces an IoT – based waste management prototype that uses sensors equipped bins to collect and transmit data, enabling dynamic and optimized waste collection through intelligent algorithms.

2. Problem statement

Traditional waste collection systems are inefficient and lack real-time data integration making it difficult to optimize waste collection and management. There is a need for a smart system that monitors waste levels that is open and standards-based.

3. Objectives

Main objectives

To design a smart waste management system using Internet-of-Things(IoT).

Specific objectives

- To identify the requirements for smart waste system.
- To collect and transmit large amount of data from bins for analysis.
- To test (simulate) the new system and compare its performance to traditional waste management.

4. Research gap

Existing system do not fully utilize real-time data and intelligent algorithms for optimizing waste collection and its management.