

# **SMART WASTE MANAGEMENT SYSTEM FOR METROPOLITAN CITIES**

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## **ABSTRACT**

This project proposes a novel system and intelligent sensing algorithm for real time solid waste garbage monitoring system that would contribute to the solid waste collection optimization. The monitoring application is based on decision algorithms for sensing solid waste data in a wireless sensor network. The system is built on a three level architecture like smart garbage, gateway and control station. The elementary concept is that, smart garbage's collect their status when any changes occur and transmit the status data to a server via an intermediate coordinator. A set of applications in server presents the updated garbage status on real time. Thus the proposed system has achieved its goal to provide real time garbage status information to the solid waste management operator. Later, these information can be used for collection route optimization to reduce collection costs and carbon emissions which in turn contribute to build green society.